



Freeze Drying Cookbook

*Easy Nutritious Recipes Tips & Guides for
Home Preservation, Emergency Meals,
Camping Kits, DIY Pantry, Pet Treats, Herbs
Preppers' Essentials | Shelf Life & Nutrient
Retention*

Iris Kennedy

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Savory Veggie Egg Scramble



A colorful mix of eggs, spinach, mushrooms, and onions for a satisfying, protein-rich start to your morning.

Prep Time: 5 minutes | Cook Time: 10 minutes | Servings: 2

Ingredients:

- Eggs: 4 large | 8 oz | 225 g
- Spinach, chopped: 1 cup | 1 oz | 30 g
- Mushrooms, diced: 1 cup | 3 oz | 90 g
- Onion, diced: 1 small | 1 oz | 30 g
- Olive oil: 1 tsp | 0.17 fl oz | 5 ml
- Salt & pepper: to taste

Cooking Instructions:

1. Gently heat olive oil in a pan set to medium. Sauté onion and mushrooms until soft.
2. Add spinach and cook for 1-2 minutes.
3. Beat eggs and pour into the pan. Scramble until eggs are fully cooked.
4. Cool completely before freeze drying.

Nutritional Value (Per Serving):

- Calories: 210
- Proteins: 14 g
- Fats: 15 g
- Carbohydrates: 5 g
- Minerals: Iron, Potassium, Magnesium
- Vitamin C: 12 mg
- Antioxidants: Present in spinach and mushrooms
- Nuts & Meats Need Oxygen: Yes

Apple Cinnamon Oatmeal



Comforting oats with sweet apples and a warm touch of cinnamon.

Prep Time: 5 minutes | Cook Time: 10 minutes | Servings: 2

Ingredients:

- Rolled oats: 1 cup | 4 oz | 115 g
- Apple, chopped: 1 medium | 5 oz | 140 g
- Cinnamon: 1 tsp | 0.1 oz | 3 g
- Maple syrup: 1 tbsp | 0.5 oz | 15 ml
- Water: 1½ cups | 12 oz | 350 ml

Cooking Instructions:

1. Set a pot over high heat and bring the water to a boil. Add oats and apple.
2. Simmer for 5-7 minutes until oats are soft.
3. Stir in cinnamon and maple syrup. Let cool.
4. Portion and freeze dry.

Nutritional Value (Per Serving):

- Calories: 190
- Proteins: 4 g
- Fats: 2.5 g
- Carbohydrates: 36 g
- Minerals: Calcium, Potassium
- Vitamin C: 6 mg
- Antioxidants: High in apples and cinnamon
- Nuts & Meats Need Oxygen: No

Quinoa Breakfast Bowl with Banana



A sweet, protein-rich bowl featuring quinoa, banana, and almond butter.

Prep Time: 5 minutes | Cook Time: 15 minutes | Servings: 2

Ingredients:

- Cooked quinoa: 1 cup | 5 oz | 140 g
- Banana, sliced: 1 medium | 4 oz | 115 g
- Almond butter: 2 tbsp | 1 oz | 30 g
- Vanilla extract: 1 tsp | 0.17 fl oz | 5 ml
- Almond milk: ½ cup | 4 oz | 120 ml

Cooking Instructions:

1. Mix all ingredients in a saucepan set to low heat.
2. Stir gently for 5-7 minutes until creamy.
3. Cool and freeze dry in portions.

Nutritional Value (Per Serving):

- Calories: 240
- Proteins: 7 g
- Fats: 11 g
- Carbohydrates: 29 g
- Minerals: Iron, Magnesium
- Vitamin C: 8 mg
- Antioxidants: Present in banana and almond butter
- Nuts & Meats Need Oxygen: Yes

Sweet Potato Hash & Eggs



A warm and hearty breakfast with roasted sweet potatoes and scrambled eggs.

Prep Time: 10 minutes | Cook Time: 20 minutes | Servings: 2

Ingredients:

- Sweet potatoes, diced: 1 cup | 6 oz | 170 g
- Olive oil: 1 tsp | 0.17 fl oz | 5 ml
- Eggs: 2 large | 4 oz | 115 g
- Bell peppers, diced: ½ cup | 2 oz | 60 g
- Onion, diced: ¼ cup | 1 oz | 30 g

Cooking Instructions:

1. Toss sweet potatoes in oil, roast at 375°F (190°C) for 15 minutes.
2. Scramble eggs and sauté bell peppers and onion.
3. Mix all together and cool before freeze drying.

Nutritional Value (Per Serving):

- Calories: 220
- Proteins: 9 g
- Fats: 10 g
- Carbohydrates: 24 g
- Minerals: Potassium, Zinc
- Vitamin C: 32 mg
- Antioxidants: Found in sweet potatoes and peppers
- Nuts & Meats Need Oxygen: Yes

Before we dive into the details, take a peek at what this book has in store for you — right here.

INTRODUCTION

WHY FREEZE DRYING?

Imagine opening your pantry and pulling out a bag of perfectly preserved meat—that's been sitting there for years... and it still tastes like you just made it yesterday. That's the magic of freeze drying.

This cookbook is your gateway to mastering one of the most powerful food preservation methods available—whether you're prepping for emergencies, planning outdoor adventures, or just want healthier, longer-lasting meals at home.

The Ultimate Guide to Extending Shelf-Life While Locking in Flavor and Nutrition
Freeze drying doesn't just keep food from spoiling—it preserves the taste, texture, color, and nutrients better than just about any other method. While canned or dehydrated food can lose flavor and vitamins over time, freeze-dried food holds up for decades when stored properly. So get more than just preserved food—you get meals you'll actually want to eat.

Who Should Use This Cookbook

- **Home cooks** looking to preserve garden harvests year-round
 - **Preppers** building a pantry that's ready for anything
 - **Campers, hikers, and adventurers** needing lightweight, easy meals on the go
 - **Busy families** who want healthy, ready-to-eat options without the kitchen full
 - **Sustainability seekers** reducing food waste and maximizing every bite
- If you like the idea of saving money, saving time, and being prepared—all while eating well—this cookbook is for you.
- From Freezer to Fork: What Makes Freeze Drying Different**
Let's clear things up—freeze drying is not the same as dehydrating, canning, or vacuum sealing. Here's what makes it stand out:
- **Freeze drying preserves nutrients without heat**, which keeps the structure, flavor, and nutrients of food intact.
 - **Quick Adaptation**: It doesn't shrink or toughen food.
 - **It offers a much longer shelf life** than canning—up to 25 years for many items.
 - **Vacuum sealing helps with storage** but doesn't preserve food the same way.
- The result? Food that performs quickly and tastes almost exactly like it did when fresh.
- A Quick History of Freeze Drying (From NASA to Your Kitchen)**
Freeze drying isn't new—it's been around for centuries! The ancient Incas used mountain air and cold to preserve potatoes. But modern freeze drying as we know it took off in the 20th century.

PART 1: FREEZE DRYING ESSENTIALS

CHAPTER 1: Freeze Drying vs. Other Preservation Methods

When I first started preserving food, I got overwhelmed—dehydrating, canning, freezing... and then I discovered freeze drying. Each method has its place, but freeze drying quickly became my favorite. Here's how it stacks up against the others:

Freeze Drying vs. Dehydrating
Both remove moisture—but not in the same way.

- **Dehydrating uses heat**, which can shrink and toughen food. Think chewy apples or leathery beef jerky.
- **Freeze drying works by freezing food first**, then pulling out the moisture with a vacuum. The result? Food that stays bright, chewy, and nearly all its nutrients.

⚠️ Watch for texture and nutrient freeze drying.

Freeze Drying vs. Canning
Canning is classic, no doubt. My pantry still has a few jars of home-canned peaches.

- But it takes a lot of time (and heat), and canned foods have a shorter shelf life—usually 1 to 2 years.
- **Freeze drying**, on the other hand, can give you food that lasts 20-30 years, no joke. Plus, there's no added sugar, salt, or preservatives unless you want them.

⚠️ Watch for better storage and clean ingredients. Freeze drying.

ANDERMORE & CHEESE QUESADILLA



Prep Time: 10 minutes | Cook Time: 12 minutes | Servings: 2

- Whole wheat tortilla: 2 medium | 4 oz | 115 g
- Mushrooms, sliced and sautéed: ½ cup | 2 oz | 60 g
- Onion, finely chopped: 2 tbsp | 1 oz | 30 g
- Low-fat cheddar cheese: ½ cup | 2.5 oz | 75 g
- Tomato or eggplant paste
- Olive oil (for brushing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:
1. Lightly sauté mushrooms and onions until soft. Stir in herbs.
2. Spread mixture on half of each tortilla and cheese and fill.
3. Cook in skillet, brushed with oil until browned and crisp.
4. Cool completely, cut into quarters, and freeze dry thoroughly.

Nutritional Value (Per Serving):
• Calories: 210
• Proteins: 12 g
• Fat: 10 g
• Carbohydrates: 34 g
• Minerals: Selenium, Oxygen: No

CHICKEN & RICE BURRITOS



Prep Time: 10 minutes | Cook Time: 12 minutes | Servings: 2

- Whole wheat tortilla: 2 medium | 4 oz | 115 g
- Chicken, cooked & shredded: ½ cup | 3 oz | 90 g
- Brown rice, cooked & cooled: ½ cup | 1.5 oz | 45 g
- Beans, rinsed & drained: ¼ cup | 1.5 oz | 45 g
- Bell pepper, chopped: ¼ cup | 1 oz | 30 g
- Cilantro, finely chopped: 1 tsp | 0.17 fl oz | 5 ml
- Olive oil (for brushing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:
1. In a pan, sauté chicken and bell pepper in olive oil for 5-7 minutes.
2. Combine chicken, rice, vegetables, and salsa.
3. Spoon mixture into tortillas and roll tightly.
4. Lightly brush on olive oil (optional).
5. Cool fully, slice in half, and freeze dry.

Nutritional Value (Per Serving):
• Calories: 370
• Proteins: 22 g
• Fat: 9 g
• Carbohydrates: 45 g
• Minerals: Zinc

BLISSFUL & DISCOVERY BURRITOS



Prep Time: 10 minutes | Cook Time: 12 minutes | Servings: 2

- Soft wheat tortilla: 2 medium | 4 oz | 115 g
- Eggs: 2 large | 4 oz | 115 g
- Mashed banana: ¼ cup | 2 oz | 60 g
- Blueberries (fresh or frozen): ½ cup | 1.5 oz | 45 g
- Peanut butter: 1 tsp | 0.17 fl oz | 5 ml
- Water: 1 tsp | 0.17 fl oz | 5 ml
- Olive oil (for brushing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:
1. Sauté banana and mix with eggs and water.
2. Add blueberries, flour, peanut butter, and lemon juice.
3. Gently fold in blueberries.
4. Cook on a preheated skillet for 2-3 minutes per side.
5. Cool completely and freeze dry.

Nutritional Value (Per Serving):
• Calories: 380
• Proteins: 12 g
• Fat: 10 g
• Carbohydrates: 35 g
• Minerals: Magnesium, Potassium

CHAPTER 7: Quick Lunch Kits

Busy days call for smart solutions, and freeze-dried lunch kits are your secret weapon. Whether you're packing a school lunch, prepping for work, or need a ready-to-go meal on the trail, these kits are light, easy to eat, and easy to rehydrate. In this chapter, you'll learn how to assemble balanced, satisfying meals with minimal prep—just add hot water or enjoy them as-is. Think of it as healthier, made simple, without sacrificing nutrition or flavor.



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INTRODUCTION

WHY FREEZE DRYING?

Imagine opening your pantry and pulling out a juicy, flavorful strawberry—or a perfectly seasoned meal—that’s been sitting there for years... and it still tastes like you just made it yesterday. That’s the magic of freeze drying.

This cookbook is your gateway to mastering one of the most powerful food preservation methods available—whether you’re prepping for emergencies, planning outdoor adventures, or just want healthier, longer-lasting meals at home.

The Ultimate Guide to Extending Shelf Life While Locking in Flavor and Nutrition

Freeze drying doesn’t just keep food from spoiling—it preserves the taste, texture, color, and nutrients better than just about any other method. While canned or dehydrated food can lose flavor and vitamins over time, freeze-dried food holds up for decades when stored properly. You get more than just survival food—you get meals you’ll actually want to eat.

Who Should Use This Cookbook

This book is for:

- **Homesteaders** looking to preserve garden harvests year-round
- **Preppers** building a pantry that’s ready for anything
- **Campers, hikers, and adventurers** needing lightweight, easy meals on the go
- **Busy families** who want healthy, ready-to-serve options without the takeout bill
- **Sustainability seekers** reducing food waste and maximizing every bite

If you like the idea of saving money, saving time, and being prepared—all while eating well—this cookbook is for you.

From Freezer to Fork: What Makes Freeze Drying Different

Let’s clear things up—**freeze drying is not the same as dehydrating, canning, or vacuum sealing**. Here’s what makes it stand out:

- **Freeze drying removes moisture without heat**, which keeps the structure, flavor, and nutrients of food intact.
- Unlike **dehydration**, it doesn’t shrink or toughen food.
- It offers a **much longer shelf life** than canning—up to 25 years for many items.
- Vacuum sealing helps with storage but doesn’t preserve food the same way.

The result? Food that rehydrates quickly and tastes almost exactly like it did when fresh.

A Quick History of Freeze Drying (From NASA to Your Kitchen!)

Freeze drying isn’t new—it’s been around for centuries! The ancient Incas used mountain air and cold to preserve potatoes. But modern freeze drying as we know it took off in the 20th century.

NASA used it to fuel space missions with lightweight, nutritious meals. Hospitals freeze-dried medications. The military used it for rations. And now? **You can use the same powerful tech right in your kitchen.** Home freeze dryers are becoming more affordable and user-friendly than ever.

How This Book Is Organized for Daily Use and Emergency Prep

Whether you're freeze drying fruits for school lunches or building an emergency stash, this cookbook is divided into clear, practical sections:

- **Preserve:** Learn how to prep, freeze dry, and store everything from fruits and veggies to full meals and dairy.
- **Prepare:** Recipes and techniques for cooking with freeze-dried ingredients—breakfasts, soups, snacks, entrees, desserts, and more.
- **Plate:** Creative serving tips and rehydration tricks so your freeze-dried meals look and taste amazing every time.

Whether you're feeding your family tonight or planning for a crisis down the road, this book will help you turn your freeze dryer into your most valuable kitchen tool.

PART 1: FREEZE DRYING ESSENTIALS

CHAPTER 1: Freeze Drying vs. Other Preservation Methods

What's the best way to make your food last? Let's break it down, plain and simple.

When I first started preserving food, I got overwhelmed—dehydrating, canning, freezing... and then I discovered **freeze drying**. Each method has its place, but freeze drying quickly became my favorite. Here's how it stacks up against the others:

Freeze Drying vs. Dehydrating

Both remove moisture—but not in the same way.

- **Dehydrating** uses heat, which can shrink and toughen food. Think chewy apples or leathery beef jerky.
- **Freeze drying** works by freezing food first, then pulling out the moisture with a vacuum. The result? Food that keeps its original shape, color, and nearly all its nutrients.

✔ Winner for texture and nutrition: freeze drying.

Freeze Drying vs. Canning

Canning is classic, no doubt. My pantry still has a few jars of home-canned peaches.

- But it takes **a lot of time** (and heat), and canned foods have a shorter shelf life—usually 1 to 2 years.
- **Freeze drying**, on the other hand, can give you food that lasts **20–30 years**, no joke. Plus, there's no added sugar, salt, or preservatives unless you want them.

✔ Winner for long-term storage and clean ingredients: Freeze drying.

Freeze Drying vs. Freezing

I love my freezer, but let's be real—it's got limited space and isn't always reliable during power outages.

- Freezing keeps food tasting fresh, but it can lose quality over time. Ever had freezer-burned strawberries?
- Freeze drying stores food safely on a shelf, no electricity needed. And when you add water back, it tastes like it just came from the fridge.

✔ Winner for emergency prep and pantry space: Freeze drying.

Comparison Table: Which Method Wins Where?

Feature	Freeze Drying	Dehydrating	Canning	Freezing
Shelf Life	✔ 20–30 years	1–2 years	1–2 years	6–12 months
Nutrient Retention	✔ Excellent (90–97%)	Fair to good	Fair	Good
Texture & Flavor	✔ Maintains original	Often chewy/ crispy	Soft or mushy	Can get soggy
Prep Time	Moderate	Quick to moderate	Time-intensive	Quick
Additives Needed	✘ None	✘ None	Often yes (sugar/ salt)	✘ None
Power Needed for Storage	✘ No	✘ No	✘ No	✔ Yes
Rehydration	✔ Fast & full flavor	Not needed	Not needed	Not needed
Good for Full Meals?	✔ Yes	✘ Not ideal	⚠ Limited	✔ Yes
Emergency Ready?	✔ Best choice	✔ Okay	✔ Okay	✘ No (needs power)

So... Which Should You Use?

Here's how I decide:

- **Freeze drying** for long-term storage, whole meals, and emergency kits.
- **Dehydrating** for dry snacks and lightweight foods.

- **Canning** for sauces and jams, and when I want to use seasonal produce quickly.
- **Freezing** for short-term meals I'll eat within the month.

In my kitchen, freeze drying is the MVP. It's the method I trust for prepping meals I can count on for years—whether I'm heading into a busy week, going camping, or just want peace of mind knowing dinner's always ready.

CHAPTER 2: Understanding the Freeze Drying Process

If you've ever wondered what makes freeze drying so special, this is where the mystery turns into clarity—no science degree needed!

Freeze drying can seem a little high-tech at first—after all, it's been used by astronauts, the military, and emergency suppliers for years. But when you understand how it works, you'll see why it's such a powerful and practical tool for any home kitchen. From keeping the nutrients in your blueberries to preserving the texture of homemade soup, freeze drying is the ultimate way to save food without sacrificing quality.

Let's explore what actually happens during the freeze drying process, step by step, and why it works so much better than other methods.

What Really Happens to Your Food During Sublimation

At the heart of freeze drying is something called **sublimation**—it sounds technical, but it's really just a clever way of removing moisture. In a nutshell, sublimation is when frozen water in your food changes directly from solid ice into vapor, skipping the liquid phase entirely. That's right—no melting.

This happens inside the freeze dryer where your food is frozen first, then placed under vacuum pressure. Without air and under low pressure, ice can't melt—it simply evaporates. This process gently pulls the water out while leaving the flavor, nutrients, and structure of the food untouched. So, your strawberries stay sweet and crunchy, and your soups still taste like they came fresh off the stove.

The Four Stages: Freezing, Vacuum Pressure, Sublimation, Final Drying

The freeze drying process is made up of **four essential stages**, and each one plays a critical role in making your food shelf-stable for years.

1. **Freezing** – First, the food is frozen solid. This halts microbial activity and locks in nutrients, shape, and color. Think of it as pressing pause on your food.
2. **Vacuum Pressure** – Next, the machine creates a vacuum environment. When the pressure is reduced, it lowers the temperature needed for water to change states, which sets the stage for sublimation.
3. **Sublimation** – This is the main event. Under vacuum, the frozen water skips melting and turns straight into vapor. The moisture escapes without heat, so the food stays firm, colorful, and nutrient-rich.
4. **Final Drying** – Even after sublimation, a small amount of moisture might remain. This last stage gently removes it to ensure the food is thoroughly dry and won't spoil—even after 10, 15, or 25 years if properly stored!

These four stages work together like a high-tech time capsule, preserving food in its best form for the long haul.

How Freeze Drying Preserves Nutrients and Texture Better Than Any Other Method

Most preservation methods take something away—like color, flavor, or nutrition. But freeze drying is different. It protects what makes your food good.

Unlike **canning**, which uses high heat that destroys many vitamins, or **dehydrating**, which often shrinks and toughens food, freeze drying keeps things almost exactly as they were. There's no cooking involved, so delicate nutrients like vitamin C stay intact.

The result? Foods that look the same, taste the same, and have **up to 97% of their original nutrients**. It's not just good for your taste buds—it's good for your body.

And texture? Freeze-dried food is a winner here too. Rehydrate with warm water and your creamy mashed potatoes are back. Eat fruit right out of the bag and enjoy the satisfying crunch. It's the best of both worlds.

Real Results: What Foods Come Out Best

So, what actually works well in a freeze dryer? A lot more than you might think! Here's a quick list of foods that freeze dry beautifully:

- **Fruits** – Apples, bananas, mangoes, strawberries, and blueberries come out crunchy and sweet—great for snacking or baking later.
- **Vegetables** – Corn, peas, carrots, green beans, and broccoli retain their color, shape, and flavor.
- **Cooked meals** – Chili, soup, casseroles, pasta dishes, rice bowls—freeze dry a full meal and rehydrate it later with hot water.
- **Eggs** – Scrambled eggs freeze dry surprisingly well and can be rehydrated for a quick protein boost.
- **Herbs** – Basil, parsley, oregano, and cilantro dry light and crisp, perfect for long-term seasoning storage.
- **Dairy** – Shredded cheese, yogurt drops, and even milk can be freeze dried for emergency or camping use.
- **Meats** – Cooked chicken, ground beef, turkey, or ham slices freeze dry well and rehydrate in stews or stir-fries.

Of course, not every food is a perfect fit. Foods high in fat or oil (like peanut butter, butter, or avocados) don't freeze dry well and tend to go rancid over time. But once you get the hang of what works, the possibilities are almost endless.

CHAPTER 3: Equipment Guide

Let's talk tools! Choosing the right freeze drying equipment can make all the difference between a smooth experience and a frustrating one.

Whether you're freeze drying garden veggies, meal-prepping for the week, or building your emergency food stash, having the right gear is key. In this chapter, we'll walk through the essentials—from picking the perfect freeze dryer size to simple accessories that make the job easier and faster.

Choosing a Home Freeze Dryer: Small, Medium, or Large?

Freeze dryers come in three sizes, and which one you pick depends on your lifestyle and goals.

- A **small freeze dryer** is great if you're a beginner or only plan to preserve small batches of food (think herbs, fruits, or snacks). It fits easily in a kitchen or pantry and is budget-friendly.
- A **medium freeze dryer** gives you more space and flexibility. It's perfect for families or serious meal-preppers who want to freeze dry soups, meals, and larger amounts of produce.
- A **large freeze dryer** is best for homesteaders, large families, or anyone preparing food in bulk. It can handle multiple full trays at once—ideal for stocking a long-term food supply.

No matter which size you choose, you're investing in a tool that pays off in convenience, nutrition, and long-term savings.

Must-Have Accessories: Oil-Free Pumps, Trays, Storage Jars, Mylar Bags

To get the most out of your machine, you'll need a few must-have accessories that make freeze drying efficient and food storage safe.

- **Oil-free vacuum pumps** are quieter, cleaner, and lower maintenance than traditional pumps. They cost more upfront but save you time and hassle in the long run.
- **Trays** (usually included with your dryer) are where the magic happens. Having extras lets you prep your next batch while one is running.
- **Storage jars** with airtight seals are great for foods you'll eat soon—perfect for daily pantry use.
- **Mylar bags** with oxygen absorbers are the gold standard for long-term storage. They block light, air, and moisture to keep your freeze-dried food shelf-stable for 10-25 years.

These tools help you go from fresh to freeze-dried to safely stored, all in a few simple steps.

Helpful Extras: Food Scales, Cutting Boards, Vacuum Sealers

Some tools aren't mandatory—but they make your freeze drying experience smoother and more efficient.

- A **food scale** helps you portion meals accurately and track how much water to add when rehydrating later.
- **Cutting boards and prep knives** let you quickly and safely chop food into freeze-dryer-friendly sizes.
- A **vacuum sealer** comes in handy for sealing jars or bags tightly, especially if you're not using oxygen absorbers.

These extras speed things up, reduce mess, and help you keep things consistent from batch to batch.

Maintenance Tips to Keep Your Machine Running Smoothly

Your freeze dryer is a hardworking machine, and a little maintenance goes a long way.

- **Clean the trays** and chamber after each use with warm water and a soft cloth—no harsh chemicals needed.
- If you're using an oil pump, **change the oil** regularly to prevent buildup and keep the vacuum strong. (Or go oil-free and skip this step!)
- Every few months, or more often if you use the machine a lot, check the seals and **gaskets** for wear.
- Make sure to **store it in a clean, dry place** away from extreme temperatures when not in use.

With proper care, your freeze dryer can run smoothly for years and handle hundreds of batches.

Main Manufacturers of Freeze Drying Equipment and Accessories

Equipment	U.S. Market Manufacturers	European Market Manufacturers
Home Freeze Dryers	Harvest Right (Utah, USA)	Lyovapor (by Büchi, Switzerland – commercial-scale only) Labconco (via distributors)
Vacuum Pumps (Oil-Free & Oil-Based)	Harvest Right (includes pumps with units) Robinair (Ohio, USA) Edwards Vacuum (UK, also available in US)	Edwards Vacuum (UK) Busch Vacuum Solutions (Germany) LabTech (Italy)
Stainless Steel Trays	Harvest Right (compatible tray sets) Custom Tray Makers (Etsy, small US brands)	Custom fabricators via eBay or freeze-drying supply stores
Mylar Bags	Wallaby Goods Harvest Right ShieldPro	PackFresh Europe Equinox Products UK Mylar Shop (Germany)
Glass Storage Jars	Ball Mason Jars (Newell Brands, USA) Kerr Anchor Hocking	Le Parfait (France) Weck (Germany) IKEA (globally available)
Vacuum Sealers	FoodSaver (Newell Brands) VacMaster (ARY, USA)	Caso Germany Lava (Germany) SilverCrest (Lidl EU)
Food Scales	OXO My Weigh Taylor	Beurer (Germany) Soehnle (Germany) Tefal (France)
Cutting Boards & Knives	OXO, Joseph Joseph, Dexter Russell	Victorinox (Switzerland) Zwilling (Germany) Fiskars (Finland)

Notes:

- **Harvest Right** is the **only major manufacturer of home freeze dryers** specifically targeted at home users worldwide. Their machines are distributed in Europe via authorized resellers.
- Many European companies like **Edwards** and **Busch** specialize in **commercial vacuum systems**, but their pumps are often used in home setups when adapted.
- Accessory brands (like glass jars, sealers, and Mylar bags) are more regional, and many U.S. options are available via international shipping or Amazon Global.
- Some products (like cutting boards, food scales) are widely available and interchangeable depending on quality and price preference.

PART 2: PREPARING FOR FREEZE DRYING SUCCESS

CHAPTER 4: Prep Like a Pro

How to Get Your Food Ready for the Best Freeze Drying Results

Once you've chosen your equipment, it's time to move on to one of the most important steps in freeze drying: **preparing your food properly**. Good prep helps food freeze dry more evenly, store longer, and taste better when rehydrated. In this chapter, you'll learn the best ways to handle different kinds of food, smart pre-treating techniques, how to stay safe and clean, and which foods just don't freeze dry well.

Best Practices for Meats, Fruits, Vegetables, and Full Meals

Each type of food has its own personality—and its own prep rules. Here's how to treat them right:

Meats

- **Cook first:** Always cook meat before freeze drying. Raw meat can carry bacteria and doesn't rehydrate well.
- **Cut into small pieces:** Slice meats into ½-inch (1.25 cm) cubes or thin strips. This helps them dry faster and evenly.
- **Remove fat:** Trim visible fat before cooking. Fat doesn't freeze dry well and can go rancid in storage.
- **Shred or dice:** Shredded chicken, ground beef, or chopped turkey rehydrate better than large cuts.

Fruits

- **Wash and peel:** Clean fruit well. Peeling is optional, but it can improve texture.
- **Slice evenly:** Cut into uniform pieces about ¼ to ½ inch (0.6 to 1.25 cm) thick.
- **Pre-freeze:** Freezing fruit for several hours before freeze drying helps speed up the process.
- **Sweeten gently (optional):** You can lightly dust sour fruits like cranberries with sugar or juice if desired, but avoid overdoing it.

Vegetables

- **Blanch most veggies:** Light boiling for 2-3 minutes helps preserve color, texture, and nutrients.
- **Dry before freezing:** After blanching, dry veggies with a clean towel to prevent extra ice buildup.
- **Slice or dice:** Uniform pieces dry more evenly. Think ½-inch (1.25 cm) chunks or slices.
- **Pre-freeze:** Like fruits, vegetables benefit from being frozen before going into the freeze dryer.

Full Meals

- **Cook completely:** Soups, stews, pasta dishes, and casseroles should be fully cooked and cooled.
- **Separate portions:** Spread meals in thin layers on trays to ensure even drying.
- **Avoid oil-heavy recipes:** Use low-fat recipes because oil doesn't freeze dry and may spoil in storage.
- **Label well:** Once dried and stored, full meals can look similar. Add clear labels with meal names and dates.

Blanching, Pre-Cooking, and Seasoning: What to Do Before Drying

Some foods need extra steps before freeze drying. These small efforts can make a big difference in how well your food turns out.

Blanching

- Use this for vegetables like broccoli, green beans, asparagus, and carrots.
- Boil briefly (2-3 minutes), then cool quickly in ice water to stop cooking.
- Blanching helps maintain texture, flavor, and bright color.

Pre-Cooking

- Always cook meats and complex meals.
- Eggs should be scrambled and cooked first—not raw.
- Pasta and rice should be fully cooked before drying.

Seasoning

- Season lightly if desired, but avoid heavy oils or greasy sauces.
- Herbs and spices freeze dry well—try seasoning veggies or grains before drying.
- Avoid salt-heavy marinades or sauces, as they may interfere with drying or rehydration.

Food Safety and Hygiene Tips

Staying clean and careful during food prep isn't just a good idea—it's essential. Here's how to keep your freeze-drying safe and sanitary:

- **Wash hands and tools:** Always wash your hands, cutting boards, knives, and trays before starting.
- **Clean surfaces:** Sanitize counters and prep areas regularly.
- **Avoid cross-contamination:** Keep raw meats away from fruits and vegetables.
- **Label clearly:** Use permanent markers to label each batch with the name and date.
- **Use fresh ingredients:** Only freeze dry foods that are fresh and safe to eat. If it's spoiled now, it will be spoiled later.

What Not to Freeze Dry (Yes, Butter and Chocolate Are Tricky!)

Believe it or not, not all foods are great for freeze drying. Some contain too much fat, sugar, or moisture to dry properly—or safely.

Foods to Avoid or Use with Caution:

- **High-fat foods:** Butter, oils, fatty meats (like bacon), and full-fat cheese don't freeze dry well. The fat stays behind and can go rancid.
- **Chocolate:** Most chocolates contain oils or dairy, making them hard to freeze dry. Pure cocoa powder is fine, but chocolate bars will likely melt or clump.
- **Nut butters:** Peanut butter, almond butter, and similar spreads don't dry properly and remain sticky.
- **Jams and jellies:** Too much sugar and water content. They remain tacky and won't store well.
- **Syrups and honey:** These are nearly impossible to freeze dry and will stay gooey.

- **Raw eggs:** These pose a food safety risk and don't freeze dry well. Always cook first.

Prepping your food is where your freeze-drying success truly begins. From chopping fruit to blanching veggies and fully cooking meals, every step makes a difference in quality, taste, and shelf life. With a few simple techniques and smart choices, you'll be prepping like a pro in no time.

CHAPTER 5: Storage & Shelf Life Secrets

You've prepped, cooked, and freeze-dried your food—but now comes a big question: **How do you store it so it stays fresh for the long haul?** Proper storage ensures that all your effort pays off, keeping your food delicious for months or even years to come. In this chapter, we'll explore the best packaging options, how to use oxygen absorbers and desiccants, how long different foods really last, and the best way to label and store your food for maximum shelf life.

Choosing the Right Packaging: Mylar vs. Jars vs. Vacuum Sealing

There are a few popular ways to store freeze-dried food, and each method has its pros and cons. Let's break them down:

Mylar Bags

- Best for long-term storage (up to 25 years!)
- Blocks light and moisture, which helps food last longer
- Easy to seal with a heat sealer
- Lightweight and perfect for bulk food storage
- Must be paired with oxygen absorbers for best results

Glass Jars

- Great for short-term use or everyday snacking
- You can see what's inside—super helpful!
- Airtight lids protect food from air and moisture
- Best for storing fruits, herbs, or frequently used ingredients on your shelf
- Not ideal for long-term storage unless vacuum-sealed

Vacuum Sealing

- Removes most air from the package
- Works well for medium-term storage (1-3 years)
- Often used for meals or smaller portions
- Can be used with special jars or vacuum-seal bags
- Still needs oxygen absorbers for longer shelf life

The Role of Oxygen Absorbers and Desiccants

These tiny tools make a huge difference when it comes to keeping your food fresh.

Oxygen Absorbers

- Remove oxygen from the package to stop bacteria and mold growth

- Essential for long-term storage (especially in Mylar bags)
- Choose the right size: usually 300-500cc for quart-size bags
- Use one per container or bag, then seal quickly
- Don't reuse them once opened—they start working right away!

Desiccants (Moisture Absorbers)

- Help reduce any leftover moisture in the container
- Great for foods that are extra sensitive to humidity (like powdered milk or strawberries)
- Often used with jars or when humidity is a concern
- Don't replace oxygen absorbers—use them together for best results

Shelf Life by Food Category (Meats, Dairy, Fruit, Meals)

Not all freeze-dried foods last the same amount of time. Here's a simple guide by category:

Food Type	Typical Shelf Life (Sealed Properly)
Meats (cooked & lean)	10-15 years
Low-fat dairy (like yogurt or milk powder)	10-20 years
Fruits (apples, berries, bananas, etc.)	20-25 years
Vegetables (blanched, chopped)	15-25 years
Full meals (low in fat)	5-10 years
High-fat foods (cheese, creamy meals)	2-5 years (or less)

Tip: The less fat and moisture your food has, the longer it will last.

Ideal Storage Conditions and How to Label for Longevity

Even the best packaging won't help if your food isn't stored properly. Here's how to protect your investment:

Ideal Storage Conditions

- **Cool:** Under 70°F (21°C) is ideal. Cooler is even better.
- **Dry:** Keep food away from humidity and water sources.
- **Dark:** Light can break down food over time—use opaque containers or store it in a dark pantry or basement.
- **Still:** Avoid moving sealed packages too often, which can weaken seals.

How to Label Like a Pro

- Use a **permanent marker** or printed label

- Always include:
 - o Food name
 - o Freeze-dried date
 - o Rehydration notes (optional, but helpful)
- Store similar items together so they're easier to rotate and use

Bonus Tip: If you open a Mylar bag or jar but don't use it all, reseal it tightly and add a new oxygen absorber.

Storage isn't just the final step—it's the key to making your freeze-drying journey truly worth it. By packaging wisely, adding oxygen absorbers, storing in ideal conditions, and labeling clearly, you ensure your food remains fresh, safe, and enjoyable for years. Whether you're stocking up for emergencies, building a pantry, or prepping for everyday convenience, now you know exactly how to keep your food in top shape.

PART 3: DAILY MEALS & EMERGENCY FOOD

CHAPTER 6: Breakfasts That Wait for You

Hot, hearty, and ready when you are—breakfasts that last for months or years.

Let's be honest: mornings can be chaotic. Whether you're juggling a busy workday, managing a household, or gearing up for an outdoor adventure, a ready-to-go breakfast is a game changer. Now imagine having delicious, home-cooked breakfasts stocked and shelf-stable—waiting patiently in your pantry until you're ready.

That's the beauty of freeze-dried breakfasts. With the right prep, you can make meals that rehydrate beautifully, keep their flavor and texture, and stay fresh for months or even years. They're perfect for daily convenience and emergency food storage alike. From hearty egg dishes and sausage scrambles to sweet fruit porridges and pancakes—you'll find breakfast favorites that are comforting, nourishing, and easy to bring back to life with just a little hot water.

Each recipe below is designed for 2 servings, with simplified ingredient lists that make prep and freeze-drying a breeze. Just cook, cool, freeze-dry, and package. When you're ready to enjoy, rehydrate with warm water, and in minutes, your breakfast is back.

Hearty, wholesome breakfasts that freeze dry beautifully and spring back to life with just a little hot water.

★ How to Use These Recipes:



1. **Fully cook** all ingredients before freeze drying.
2. **Freeze dry** using your home freeze dryer (8-36 hours depending on ingredients).
3. **Package** in Mylar bags with oxygen absorbers for up to 25 years of shelf life.
4. **To rehydrate:** Add hot water (roughly equal in volume to the original moisture), stir, and wait 5-10 minutes.

Savory Veggie Egg Scramble



A colorful mix of eggs, spinach, mushrooms, and onions for a satisfying, protein-rich start to your morning.

Prep Time: 5 minutes | **Cook Time:** 10 minutes |
Servings: 2

Ingredients:

- Eggs: 4 large | 8 oz | 225 g
- Spinach, chopped: 1 cup | 1 oz | 30 g
- Mushrooms, diced: 1 cup | 3 oz | 90 g
- Onion, diced: 1 small | 1 oz | 30 g
- Olive oil: 1 tsp | 0.17 fl oz | 5 ml
- Salt & pepper: to taste

Cooking Instructions:

1. Gently heat olive oil in a pan set to medium. Sauté onion and mushrooms until soft.
2. Add spinach and cook for 1-2 minutes.
3. Beat eggs and pour into the pan. Scramble until eggs are fully cooked.
4. Cool completely before freeze drying.

Nutritional Value (Per Serving):

- | | |
|--|--|
| • Calories: 210 | • Vitamin C: 12 mg |
| • Proteins: 14 g | • Antioxidants: Present in spinach and mushrooms |
| • Fats: 15 g | • Nuts & Meats Need Oxygen: Yes |
| • Carbohydrates: 5 g | |
| • Minerals: Iron, Potassium, Magnesium | |

Apple Cinnamon Oatmeal



Comforting oats with sweet apples and a warm touch of cinnamon.

Prep Time: 5 minutes | **Cook Time:** 10 minutes |
Servings: 2

Ingredients:

- Rolled oats: 1 cup | 4 oz | 115 g
- Apple, chopped: 1 medium | 5 oz | 140 g
- Cinnamon: 1 tsp | 0.1 oz | 3 g
- Maple syrup: 1 tbsp | 0.5 oz | 15 ml
- Water: 1½ cups | 12 oz | 350 ml

Cooking Instructions:

1. Set a pot over high heat and bring the water to a boil. Add oats and apple.
2. Simmer for 5-7 minutes until oats are soft.
3. Stir in cinnamon and maple syrup. Let cool.
4. Portion and freeze dry.

Nutritional Value (Per Serving):

- | | |
|--------------------------------|---|
| • Calories: 190 | • Vitamin C: 6 mg |
| • Proteins: 4 g | • Antioxidants: High in apples and cinnamon |
| • Fats: 2.5 g | • Nuts & Meats Need Oxygen: No |
| • Carbohydrates: 36 g | |
| • Minerals: Calcium, Potassium | |

Quinoa Breakfast Bowl with Banana



A sweet, protein-rich bowl featuring quinoa, banana, and almond butter.

Prep Time: 5 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Cooked quinoa: 1 cup | 5 oz | 140 g
- Banana, sliced: 1 medium | 4 oz | 115 g
- Almond butter: 2 tbsp | 1 oz | 30 g
- Vanilla extract: 1 tsp | 0.17 oz | 5 ml
- Almond milk: ½ cup | 4 oz | 120 ml

Cooking Instructions:

1. Mix all ingredients in a saucepan set to low heat.
2. Stir gently for 5-7 minutes until creamy.
3. Cool and freeze dry in portions.

Nutritional Value (Per Serving):

- Calories: 240
- Proteins: 7 g
- Fats: 11 g
- Carbohydrates: 29 g
- Minerals: Iron, Magnesium
- Vitamin C: 8 mg
- Antioxidants: Present in banana and almond butter
- Nuts & Meats Need Oxygen: Yes

Sweet Potato Hash & Eggs



A warm and hearty breakfast with roasted sweet potatoes and scrambled eggs.

Prep Time: 10 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Sweet potatoes, diced: 1 cup | 6 oz | 170 g
- Olive oil: 1 tsp | 0.17 fl oz | 5 ml
- Eggs: 2 large | 4 oz | 115 g
- Bell peppers, diced: ½ cup | 2 oz | 60 g
- Onion, diced: ¼ cup | 1 oz | 30 g

Cooking Instructions:

1. Toss sweet potatoes in oil, roast at 375°F (190°C) for 15 minutes.
2. Scramble eggs and sauté bell peppers and onion.
3. Mix all together and cool before freeze drying.

Nutritional Value (Per Serving):

- Calories: 220
- Proteins: 9 g
- Fats: 10 g
- Carbohydrates: 24 g
- Minerals: Potassium, Zinc
- Vitamin C: 32 mg
- Antioxidants: Found in sweet potatoes and peppers
- Nuts & Meats Need Oxygen: Yes

Spinach & Egg Mini Frittatas



Mini baked frittatas packed with spinach and tomato.

Prep Time: 5 minutes | **Cook Time:** 20 minutes |
Servings: 2

Ingredients:

- Eggs: 4 large | 8 oz | 225 g
- Spinach, chopped: 1 cup | 1 oz | 30 g
- Tomato, diced: ½ cup | 1 oz | 30 g
- Onion, diced: 2 tbsp | 1 oz | 30 g
- Herbs: pinch
- Olive oil (for greasing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:

1. Preheat oven to 350°F (175°C). Grease muffin tin.
2. Whisk eggs and combine with veggies and herbs.
3. Pour into muffin cups and bake for 18-20 minutes.
4. Cool before freeze drying.

Nutritional Value (Per Serving):

- Calories: 200
- Proteins: 13 g
- Fats: 13 g
- Carbohydrates: 4 g
- Vitamin C: 10 mg
- Minerals: Iron, Calcium
- Antioxidants: Found in spinach and tomato
- Nuts & Meats Need Oxygen: Yes

Chicken & Basil Flatbread Pizzas



Protein-rich chicken pizzas with fresh basil on thin crust.

Prep Time: 10 minutes | **Cook Time:** 18 minutes |
Servings: 2

Ingredients:

- Whole grain flatbread: 2 small | 4 oz | 115 g
- Cooked chicken breast, diced: ½ cup | 3 oz | 85 g
- Tomato sauce: ½ cup | 4 fl oz | 120 ml
- Mozzarella, shredded: ½ cup | 2 oz | 60 g
- Fresh basil leaves, chopped: 2 tbsp | 0.2 oz | 6 g
- Garlic powder: pinch

Cooking Instructions:

1. Preheat oven to 375°F (190°C).
2. Spread sauce over each flatbread. Add chicken and sprinkle garlic powder.
3. Top with cheese and basil.
4. Cook in the oven for 15-18 minutes, until the top is golden and bubbly.
5. Cool thoroughly before freeze drying.

Nutritional Value (Per Serving):

- Calories: 270
- Proteins: 20 g
- Fats: 10 g
- Carbohydrates: 22 g
- Vitamin C: 5 mg
- Minerals: Calcium, Iron
- Antioxidants: Basil and garlic
- Nuts & Meats Need Oxygen: Yes

Veggie Hummus Tortilla Rolls



Whole grain wraps filled with hummus and crunchy vegetables.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Whole grain tortilla: 1 medium | 2 oz | 60 g
- Hummus: 3 tbsp | 1.5 oz | 45 g
- Cucumber, julienned: ¼ cup | 1 oz | 30 g
- Carrot, shredded: ¼ cup | 1 oz | 30 g
- Red bell pepper, thin strips: ¼ cup | 1 oz | 30 g

Cooking Instructions:

1. Lay tortilla flat and spread hummus evenly.
2. Arrange cucumber, carrot, and bell pepper across center.
3. Roll tightly and slice into bite-sized pieces.
4. Freeze dry until light and crisp.

Nutritional Value (Per Serving):

- Calories: 190
- Proteins: 5 g
- Fats: 7 g
- Carbohydrates: 24 g
- Minerals: Magnesium, Potassium
- Vitamin C: 35 mg
- Antioxidants: Found in red bell pepper and carrot
- Nuts & Meats Need Oxygen: No

Peanut Date Protein Bars



High-energy bars with dates and peanut for a protein-rich start.

Prep Time: 10 minutes | **Cook Time:** 0 minutes
(no-bake) | **Servings:** 2

Ingredients:

- Pitted dates, chopped: ¼ cup | 1.5 oz | 45 g
- Natural peanut butter: 2 tbsp | 1 oz | 30 g
- Protein powder (plant-based): 2 tbsp | 0.7 oz | 20 g
- Oats, ground: 2 tbsp | 0.7 oz | 20 g
- Water: 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Blend dates and water into a paste.
2. Mix with peanut butter, protein powder, and ground oats until firm.
3. Press into a flat rectangle shape.
4. Chill until firm, then freeze dry until dry and shelf-stable.

Nutritional Value (Per Serving):

- Calories: 230
- Proteins: 10 g
- Fats: 11 g
- Carbohydrates: 24 g
- Minerals: Potassium, Magnesium
- Vitamin C: 1 mg
- Antioxidants: Present in dates
- Nuts & Meats Need Oxygen: Yes

Mushroom & Cheese Quesadilla



Earthy mushrooms pair perfectly with mild cheese in this umami-rich option.

Prep Time: 10 minutes | **Cook Time:** 12 minutes |
Servings: 2

Ingredients:

- Whole wheat tortillas: 2 medium | 4 oz | 115 g
- Mushrooms, sliced and sautéed: ½ cup | 2 oz | 60 g
- Onion, finely chopped: 2 tbsp | 1 oz | 30 g
- Low-fat cheddar, shredded: ⅓ cup | 1.5 oz | 45 g
- Thyme or oregano: pinch
- Olive oil (for brushing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:

1. Lightly sauté mushrooms and onions until soft. Stir in herbs.
2. Spread mixture on half of each tortilla, add cheese, and fold.
3. Cook in skillet brushed with oil until browned and crisp.
4. Cool completely, cut into quarters, and freeze dry thoroughly.

Nutritional Value (Per Serving):

- Calories: 290
- Proteins: 12 g
- Fats: 10 g
- Carbohydrates: 34 g
- Minerals: Selenium, Iron
- Vitamin C: 4 mg
- Antioxidants: Found in mushrooms and onion
- Nuts & Meats Need Oxygen: No

Chicken & Rice Burritos



A satisfying classic with tender chicken and fluffy rice.

Prep Time: 10 minutes | **Cook Time:** 12 minutes |
Servings: 2

Ingredients:

- Whole wheat tortillas: 2 large | 6 oz | 170 g
- Cooked chicken breast, shredded: ½ cup | 3 oz | 85 g
- Brown rice, cooked: ½ cup | 4 oz | 115 g
- Tomato, diced: ¼ cup | 1.5 oz | 45 g
- Bell pepper, chopped: ¼ cup | 1 oz | 30 g
- Mild salsa: 2 tbsp | 1 oz | 30 ml
- Olive oil (for sautéing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:

1. In a pan, sauté tomato and bell pepper in olive oil for 3-4 minutes.
2. Combine chicken, rice, vegetables, and salsa.
3. Spoon mixture into tortillas and roll tightly.
4. Lightly toast on skillet (optional).
5. Cool fully, slice in half, and freeze dry.

Nutritional Value (Per Serving):

- Calories: 370
- Proteins: 22 g
- Fats: 9 g
- Carbohydrates: 45 g
- Vitamin C: 18 mg
- Minerals: Iron, Zinc
- Antioxidants: Found in bell pepper, tomato
- Nuts & Meats Need Oxygen: Yes

Buckwheat & Blueberry Pancakes



Gluten-free buckwheat flour paired with antioxidant-rich blueberries.

Prep Time: 10 minutes | **Cook Time:** 10 minutes |
Servings: 2

Ingredients:

- Buckwheat flour: ½ cup | 2 oz | 60 g
- Eggs: 2 large | 4 oz | 115 g
- Mashed banana: ¼ cup | 2 oz | 60 g
- Blueberries (fresh or thawed): ¼ cup | 1.5 oz | 45 g
- Baking soda: ¼ tsp | 0.05 oz | 1.5 g
- Lemon juice: 1 tsp | 0.17 fl oz | 5 ml
- Water: 2 tbsp | 1 fl oz | 30 ml
- Olive oil (for greasing): 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:

1. Mash banana and mix with eggs and water.
2. Add buckwheat flour, baking soda, and lemon juice.
3. Gently fold in blueberries.
4. Cook on a greased skillet for 2-3 minutes per side.
5. Cool completely and freeze dry.

Nutritional Value (Per Serving):

- | | |
|----------------------------------|--|
| • Calories: 280 | • Vitamin C: 8 mg |
| • Proteins: 10 g | • Antioxidants: Very High (blueberries, buckwheat) |
| • Fats: 10 g | • Nuts & Meats Need Oxygen: No |
| • Carbohydrates: 35 g | |
| • Minerals: Magnesium, Potassium | |

CHAPTER 7: Quick Lunch Kits

Busy days call for smart solutions, and freeze-dried lunch kits are your secret weapon. Whether you're packing a school lunch, prepping for work, or need a ready-to-go meal on the trail, these kits are light, mess-free, and easy to rehydrate. In this chapter, you'll learn how to assemble balanced, satisfying meals with minimal prep—just add hot water or enjoy them as-is. Think of it as lunchtime made simple, without sacrificing nutrition or flavor.



Barley Vegetable Stew



Thick, rehydration-ready stew made with fiber-rich barley and gently dried garden vegetables.

Prep Time: 10 minutes | **Cook Time:** 15 minutes |
Servings: 2

Ingredients:

- Cooked barley: 1½ cups | 9 oz | 255 g
- Diced zucchini: ¾ cup | 3 oz | 90 g
- Chopped tomato: ¾ cup | 3.75 oz | 105 g
- Mixed herbs (dried): 1½ tsp | 0.15 oz | 4.5 g
- Vegetable broth (add fresh for rehydration): 2 cups | 16 fl oz | 480 ml

Cooking Instructions:

1. Cook barley until tender and set aside to cool.
2. Lightly steam zucchini and tomato for 2-3 minutes.
3. Spread cooked barley on one tray and vegetables on another.
4. Freeze both trays completely before placing them into the freeze dryer.
5. Dry until all components are crisp and fully dehydrated (24-36 hours depending on machine).
6. Package barley and vegetables separately with herbs included in the veggie pouch.
7. Seal in mylar bags with oxygen absorbers for long-term storage.

To Rehydrate:

1. Combine freeze-dried barley, vegetables, and herbs in a bowl or pot.
2. Add 2 cups (480 ml) hot vegetable broth.
3. Let sit covered for 10-15 minutes, or simmer gently until fully rehydrated.

Nutritional Value (Per Serving):

- Calories: 185
- Proteins: 6 g
- Fats: 1 g
- Carbohydrates: 38 g
- Dietary Fiber: 6 g
- Vitamin C: 9 mg
- Minerals: Magnesium, Potassium
- Antioxidants: Moderate (tomatoes, herbs)
- Nuts & Meats Need Oxygen: No

Zucchini Chickpea Patties



Savory veggie-based patties that rehydrate and heat beautifully for quick, nutritious meals.

Prep Time: 15 minutes | **Cook Time:** 10 minutes |
Servings: 2

Ingredients:

- Shredded zucchini (pressed): 1 cup | 4 oz | 115 g
- Mashed chickpeas: ½ cup | 4 oz | 115 g
- Oat flour: ¼ cup | 1 oz | 30 g
- Onion powder: ¼ tsp | 0.05 oz | 1.5 g
- Chopped parsley: 1 tbsp | 0.2 oz | 5 g

Cooking Instructions:

1. Press zucchini to remove excess moisture.
2. In a bowl, combine shredded zucchini, mashed chickpeas, oat flour, onion powder, and parsley.
3. Mix until a uniform dough forms. Shape into 4 small patties.
4. Pre-freeze patties flat on a parchment-lined tray to preserve shape.
5. Freeze dry until completely crisp (usually 24-36 hours depending on thickness).
6. Store patties between parchment layers in mylar bags with oxygen absorbers.

To Rehydrate:

1. Place one patty in a shallow dish.
2. Add hot water just to cover the base.
3. Cover and let sit for 10-15 minutes or steam lightly until soft and heated through.

Nutritional Value (Per Serving):

- Calories: 170
- Proteins: 7 g
- Fats: 3 g
- Carbohydrates: 28 g
- Dietary Fiber: 6 g
- Vitamin C: 11 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (zucchini, parsley)
- Nuts & Meats Need Oxygen: No

Egg Noodle & Turkey Veggie Stir Bowl



Asian-inspired noodles with tender turkey and crisp vegetables—ideal for freeze-drying and quick, flavorful rehydration.

Prep Time: 20 minutes | **Cook Time:** 15 minutes |
Servings: 2

Ingredients:

- Cooked egg noodles: 2 cups | 8 oz | 230 g
- Cooked shredded turkey breast: 1 cup | 6 oz | 170 g
- Shredded carrot: ½ cup | 3 oz | 90 g
- Chopped cabbage: 1 cup | 4 oz | 115 g
- Chopped green onion: 2 tbsp | 0.6 oz | 16 g

Cooking Instructions:

1. Steam or lightly sauté shredded carrot, cabbage, and green onion until just tender.
2. Combine the cooked egg noodles, shredded turkey, and vegetables in a large bowl. Mix gently to blend.
3. Spread mixture evenly on freeze dryer trays, leaving out soy sauce.
4. Freeze until solid, then freeze dry until fully crisp and dry (about 24-36 hours depending on thickness).
5. Store freeze-dried portions in mylar bags or airtight containers with desiccant packs to maintain freshness.

To Rehydrate:

1. Place one portion (about 1 cup) in a bowl.
2. Add boiling water until it just covers the food.
3. Cover and let sit for 10-15 minutes until soft and rehydrated.
4. Stir in 1 tbsp low-sodium soy sauce per serving before eating for best flavor.

Nutritional Value (Per Serving):

- | | |
|--|---|
| • Calories: 170 | • Vitamin C: 11 mg |
| • Proteins: 7 g | • Antioxidants: Moderate (carrot, cabbage, green onion) |
| • Fats: 3 g | • Nuts & Meats Need |
| • Carbohydrates: 28 g | Oxygen: No |
| • Dietary Fiber: 6 g | |
| • Minerals: Iron, Magnesium, Potassium | |

Tuna & Chickpea Medley



Quick Mediterranean-style protein salad with tender tuna and hearty chickpeas—ideal for freeze-drying and easy, flavorful rehydration.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Canned tuna in water, drained: 2 cans | 8 oz | 230 g
- Cooked chickpeas: 1 cup | 8 oz | 230 g
- Diced celery: ½ cup | 3 oz | 90 g
- Lemon zest: ¼ tsp | 0.01 oz | 0.5 g

Cooking Instructions:

1. Drain tuna thoroughly and set aside.
2. In a bowl, combine cooked chickpeas and diced celery. Mix gently to blend.
3. Spread tuna and chickpeas separately on freeze dryer trays to maintain texture.
4. Freeze until solid, then freeze dry until completely dry and crisp (usually 24-36 hours).
5. Store freeze-dried ingredients separately in mylar bags or airtight containers with desiccant packs.

To Rehydrate:

1. Place tuna and chickpeas separately in bowls.
2. Add warm water to each until just covered. Cover and let soak for 10-15 minutes until soft.
3. Combine rehydrated tuna, chickpeas, and diced celery in a bowl.
4. Add olive oil (about 2 tsp per 2 servings) and lemon zest, stirring gently before serving.

Freeze-Drying Tips: Omit olive oil before drying; add after rehydration for best flavor and texture.

Nutritional Value (Per Serving):

- | | |
|-----------------------|---|
| • Calories: 170 | • Minerals: Iron, Magnesium, Potassium |
| • Proteins: 7 g | • Antioxidants: Moderate (celery, lemon zest) |
| • Fats: 3 g | • Nuts & Meats Need |
| • Carbohydrates: 28 g | Oxygen: No |
| • Dietary Fiber: 6 g | |
| • Vitamin C: 11 mg | |

BBQ Chicken with Quinoa & Roasted Bell Peppers



Smoky BBQ chicken combined with fluffy quinoa and sweet roasted peppers for a hearty, colorful meal—perfect for freeze-drying and easy rehydration.

Prep Time: 20 minutes | **Cook Time:** 25 minutes | **Servings:** 2

Ingredients:

- Cooked shredded chicken breast coated with BBQ sauce: 1 cup | 6 oz | 170 g
- Cooked quinoa: ½ cup | 3 oz | 85 g
- Roasted red and yellow bell peppers, chopped: 1 cup | 4 oz | 115 g
- Fresh chopped cilantro: 1 tbsp | 0.2 oz | 5 g

Cooking Instructions:

1. Cook quinoa until fluffy, then cool slightly.
2. Roast bell peppers until the skin blisters; peel if desired, then chop.
3. Gently mix BBQ chicken, quinoa, roasted peppers, and cilantro in a bowl.
4. Spread the mixture evenly on freeze dryer trays.
5. Freeze until solid, then freeze dry for 24-36 hours until completely crisp and dry.
6. Store in mylar bags or airtight containers with oxygen absorbers to maintain freshness.

To Rehydrate:

1. Place one portion in a bowl.
2. Add boiling water just until the food is covered.
3. Cover and let sit for 10-15 minutes until tender and fully rehydrated.

Nutritional Value (Per Serving):

- Calories: 170
- Proteins: 7 g
- Fats: 3 g
- Carbohydrates: 28 g
- Dietary Fiber: 6 g
- Vitamin C: 11 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (bell peppers, cilantro)
- Nuts & Meats Need Oxygen: No

Creamy Avocado Pasta Primavera (Oil-Free)



A creamy, dairy-free pasta primavera featuring fresh avocado and crisp vegetables for a smooth, satisfying texture.

Prep Time: 20 minutes | **Cook Time:** 10 minutes | **Servings:** 2

Ingredients:

- Cooked fusilli pasta: 2 cups | 8 oz | 230 g
- Steamed asparagus tips: ½ cup | 3 oz | 90 g
- Diced red bell pepper: ½ cup | 3 oz | 90 g
- Mashed ripe avocado (add after rehydration): ¼ cup | 2 oz | 60 g
- Chopped parsley: 1 tbsp | 0.1 oz | 3 g
- Lemon juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml
- Low-sodium vegetable broth (for rehydration): ½ cup | 4 fl oz | 120 ml

Cooking Instructions:

1. Cook fusilli pasta until al dente and steam asparagus tips until tender-crisp; allow to cool.
2. In a bowl, combine the cooked pasta, steamed asparagus, and diced red bell pepper.
3. Spread the mixture evenly on freeze dryer trays, omitting the avocado. Freeze and freeze dry the mixture until fully dry and crisp (usually 24-36 hours). Store freeze-dried ingredients in airtight containers with desiccant packs.

To Rehydrate:

1. Place one portion of the freeze-dried mix into a bowl.
2. Add warm vegetable broth and lemon juice until the food is just covered.
3. Cover and let sit for 10-15 minutes until tender.
4. Stir in mashed avocado before serving to add creaminess and richness.

Nutritional Value (Per Serving):

- Calories: 170
- Proteins: 7 g
- Fats: 3 g
- Carbohydrates: 28 g
- Dietary Fiber: 6 g
- Vitamin C: 11 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (zucchini, parsley)
- Nuts & Meats Need Oxygen: No

Turkey & Spinach Lasagna



Lean turkey and spinach layered with tomato sauce and noodles for a hearty, protein-rich lasagna perfect for freeze-drying.

Prep Time: 30 minutes | **Cook Time:** 35 minutes | **Servings:** 2

Ingredients:

- Cooked lasagna noodles (broken into pieces): 4 sheets | 6 oz | 170 g
- Cooked shredded turkey breast: 1 cup | 6 oz | 170 g
- Cooked spinach (well-drained): ½ cup | 4 oz | 115 g
- Tomato sauce (low sodium): 1 cup | 8 oz | 230 g
- Grated low-fat mozzarella cheese (add after rehydration): ½ cup | 4 oz | 115 g
- Chopped fresh oregano: 1 tbsp | 0.1 oz | 3 g

Cooking Instructions:

1. Cook lasagna noodles until tender; cut into smaller pieces.
2. Steam spinach until just tender and drain well; cool.
3. In a large bowl, combine noodles, shredded turkey, spinach, and tomato sauce.
4. Spread mixture evenly on freeze dryer trays, omitting mozzarella cheese.
5. Freeze and freeze dry for 24-36 hours until crisp and dry.
6. Seal in airtight containers or Mylar bags with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add boiling water until just covered; cover and let sit for 15 minutes.

Nutritional Value (Per Serving):

- | | |
|--|---|
| • Calories: 190 | • Vitamin C: 10 mg |
| • Proteins: 14 g | • Antioxidants: Moderate (tomato, oregano, spinach) |
| • Fats: 5 g | • Nuts & Meats Need Oxygen: Yes |
| • Carbohydrates: 28 g | |
| • Dietary Fiber: 6 g | |
| • Minerals: Iron, Magnesium, Potassium | |

Beef Teriyaki with Snow Peas & Carrots



Sweet and savory beef paired with crunchy snow peas and carrots for a fresh take on teriyaki.

Prep Time: 15 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Cooked thinly sliced beef: 6 oz | 170 g
- Steamed snow peas: 1 cup | 4 oz | 115 g
- Julienned carrots: ½ cup | 3 oz | 90 g
- Low-sodium teriyaki sauce: 3 tbsp | 1.5 fl oz | 45 ml
- Fresh grated ginger: 1 tsp | 0.07 oz | 2 g

Cooking Instructions:

1. Cook beef strips until tender.
2. Steam snow peas and carrots until crisp-tender; cool.
3. Combine beef, vegetables, teriyaki sauce, and grated ginger in a bowl.
4. Spread evenly on freeze dryer trays.
5. Freeze and freeze dry for 24-36 hours until fully dry and crisp.
6. Store sealed with oxygen absorbers in airtight containers or mylar bags.

To Rehydrate:

1. Place one portion in a bowl.
2. Add boiling water just to cover, cover the bowl, and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- | | |
|--|---|
| • Calories: 210 | • Vitamin C: 30 mg |
| • Proteins: 17 g | • Antioxidants: Moderate (carrots, snow peas, ginger) |
| • Fats: 5 g | • Nuts & Meats Need Oxygen: Yes |
| • Carbohydrates: 16 g | |
| • Dietary Fiber: 5 g | |
| • Minerals: Iron, Magnesium, Potassium | |

Beef & Sweet Potato Chili



A warming beef chili with sweet potatoes that lend subtle sweetness—perfect for a satisfying, hearty dinner.

Prep Time: 25 minutes | **Cook Time:** 40 minutes | **Servings:** 2

Ingredients:

- Ground beef, cooked and drained: 6 oz | 170 g
- Diced cooked sweet potato: ½ cup | 4 oz | 115 g
- Diced tomatoes: 1 cup | 8 oz | 230 g
- Diced onion: ¼ cup | 1.5 oz | 45 g
- Chili powder: 1 tsp | 0.5 g
- Minced garlic: 1 tsp | 0.07 oz | 2 g
- Low-sodium beef broth: ½ cup | 4 fl oz | 120 ml

Cooking Instructions:

1. Brown ground beef and drain fat.
2. Add sweet potato, tomatoes, onion, garlic, chili powder, and broth to pan.
3. Simmer for 30 minutes; allow to cool.
4. Spread mixture evenly on freeze dryer trays.
5. Freeze and freeze dry for 24-36 hours until crisp and dry.
6. Store airtight with desiccants.

To Rehydrate:

1. Place one portion in a bowl.
2. Pour boiling water to cover food; cover and let sit for 15-20 minutes.

Nutritional Value (Per Serving):

- Calories: 330
- Proteins: 25 g
- Fats: 14 g
- Carbohydrates: 24 g
- Dietary Fiber: 6 g
- Vitamin C: 20 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (sweet potato, tomatoes)
- Nuts & Meats Need
- Oxygen: Yes

Tuna & Brown Rice Salad with Peas & Carrots



A wholesome salad of tender tuna, nutty brown rice, and sweet peas and carrots—balanced and ready for freeze-drying.

Prep Time: 10 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Canned tuna in water, drained: 6 oz | 170 g
- Cooked brown rice: ½ cup | 3.5 oz | 100 g
- Cooked peas and diced carrots: ½ cup | 3 oz | 90 g
- Chopped green onion: 1 tbsp | 0.2 oz | 5 g
- Lemon juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Mix tuna, brown rice, peas, carrots, and green onion.
2. Spread mixture evenly on freeze dryer trays.
3. Freeze and freeze dry for 24-36 hours until fully dry and crisp.
4. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and lemon juice until just covered.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- Calories: 300
- Proteins: 30 g
- Fats: 2 g
- Carbohydrates: 28 g
- Dietary Fiber: 5 g
- Vitamin C: 10 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (carrots, green onion)
- Nuts & Meats Need
- Oxygen: No

CHAPTER 8: Reheat-Ready Dinners

After a busy day, nothing beats a warm, satisfying meal that's ready in minutes. This chapter is dedicated to delicious, wholesome dinners specially crafted for freeze drying — preserving flavors, nutrients, and textures so you can enjoy home-cooked meals anytime, anywhere. Whether you're camping, preparing emergency food supplies, or simply looking for convenient meal solutions, these recipes rehydrate quickly and taste freshly made. From savory chicken and beef dishes to vibrant seafood and vegetarian options, each meal is designed for two servings and balanced nutrition, making dinner both easy and enjoyable. Let's dive into a variety of flavorful dinners that bring comfort and convenience to your table.

Mediterranean Cod with Couscous & Tomatoes



Flaky cod with light couscous and juicy tomatoes for a Mediterranean-inspired, freeze-dry-friendly lunch.

Prep Time: 20 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Cooked cod, flaked: 6 oz | 170 g
- Cooked couscous: ½ cup | 3.5 oz | 100 g
- Diced cherry tomatoes: ½ cup | 3 oz | 90 g
- Chopped basil: 1 tbsp | 0.1 oz | 3 g
- Lemon juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Cook the couscous as directed on the package, then allow it to cool.
2. Flake cooked cod and mix with couscous, diced tomatoes, and basil.
3. Spread mixture evenly on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until crisp and dry.
5. Store sealed with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and lemon juice until just covered.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 310
- Proteins: 30 g
- Fats: 4 g
- Carbohydrates: 28 g
- Dietary Fiber: 5 g
- Vitamin C: 14 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (tomatoes, basil)
- Nuts & Meats Need Oxygen: No



Cajun Shrimp with Wild Rice & Corn



A spicy Cajun shrimp dish paired with nutty wild rice and sweet corn—vibrant flavors ready for freeze-drying.

Prep Time: 15 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Cooked shrimp, peeled and deveined: 6 oz | 170 g
- Cooked wild rice: ½ cup | 3.5 oz | 100 g
- Cooked corn kernels: ½ cup | 3 oz | 90 g
- Cajun seasoning (mild): 1 tsp | 0.1 oz | 3 g
- Chopped green onions: 1 tbsp | 0.2 oz | 5 g

Cooking Instructions:

1. Toss cooked shrimp with Cajun seasoning.
2. Mix shrimp, wild rice, corn, and green onions gently.
3. Spread evenly on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until fully dry and crisp.
5. Store in airtight containers with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water until just covered.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 290
- Proteins: 30 g
- Fats: 2 g
- Carbohydrates: 27 g
- Dietary Fiber: 4 g
- Vitamin C: 10 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (green onions, Cajun spices)
- Nuts & Meats Need Oxygen: No

Tuna & Farro Salad



A savory Mediterranean-inspired salad of tuna and chewy farro with olives and herbs, perfect for freeze drying.

Prep Time: 10 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Canned tuna in water, drained: 6 oz | 170 g
- Cooked farro: ½ cup | 3.5 oz | 100 g
- Chopped kalamata olives: ¼ cup | 2 oz | 60 g
- Chopped cucumber: ½ cup | 3 oz | 90 g
- Chopped fresh oregano: 1 tbsp | 0.1 oz | 3 g
- Lemon juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Mix tuna, cooked farro, olives, cucumber, and oregano.
2. Spread mixture evenly on freeze dryer trays.
3. Freeze and freeze dry for 24-36 hours until crisp and dry.
4. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and lemon juice until just covered.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 310
- Proteins: 31 g
- Fats: 5 g
- Carbohydrates: 26 g
- Dietary Fiber: 6 g
- Vitamin C: 9 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (oregano, olives)
- Nuts & Meats Need Oxygen: No

Salmon with Brown Rice & Broccoli



Sweet teriyaki salmon combined with nutty brown rice and tender broccoli for a flavorful, freeze-dry-friendly lunch.

Prep Time: 15 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Cooked salmon, flaked: 6 oz | 170 g
- Cooked brown rice: ½ cup | 3.5 oz | 100 g
- Steamed broccoli florets: ½ cup | 3 oz | 90 g
- Low-sodium teriyaki sauce (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml
- Chopped scallions: 1 tbsp | 0.2 oz | 5 g

Cooking Instructions:

1. Mix flaked salmon, brown rice, and steamed broccoli.
2. Spread mixture evenly on freeze dryer trays.
3. Freeze and freeze dry for 24-36 hours until crisp and dry.
4. Store in airtight containers with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and teriyaki sauce until just covered.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 330
- Proteins: 28 g
- Fats: 8 g
- Carbohydrates: 28 g
- Dietary Fiber: 5 g
- Vitamin C: 12 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (broccoli, scallions)
- Nuts & Meats Need Oxygen: No

Turkey Meatballs with Zucchini Noodles & Tomato Sauce



Juicy turkey meatballs paired with fresh zucchini noodles and a tangy tomato sauce—a low-carb freeze-dry dinner option.

Prep Time: 20 minutes | **Cook Time:** 25 minutes | **Servings:** 2

Ingredients:

- Ground turkey: 6 oz | 170 g
- Spiralized zucchini noodles: 1 cup | 4 oz | 115 g
- Cooked tomato sauce (low sodium): ½ cup | 4 oz | 115 g
- Chopped basil: 1 tbsp | 0.1 oz | 3 g
- Garlic powder: ¼ tsp | 0.01 oz | 0.3 g

Cooking Instructions:

1. Form turkey into small meatballs; bake or sauté until cooked through.
2. Toss zucchini noodles with tomato sauce, basil, and garlic powder.
3. Mix meatballs gently with zucchini noodles and sauce.
4. Spread mixture evenly on freeze dryer trays.
5. Freeze and freeze dry for 24-36 hours until crisp.
6. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water to just cover.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- Calories: 280
- Proteins: 32 g
- Fats: 6 g
- Carbohydrates: 12 g
- Dietary Fiber: 4 g
- Vitamin C: 18 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (tomato sauce, basil)
- Nuts & Meats Need Oxygen: Yes

Beef Stroganoff with Mushrooms & Egg Noodles



A creamy beef stroganoff with tender mushrooms and hearty egg noodles—comfort food perfect for freeze drying.

Prep Time: 25 minutes | **Cook Time:** 30 minutes | **Servings:** 2

Ingredients:

- Cooked lean beef strips: 6 oz | 170 g
- Cooked egg noodles: 1 cup | 4 oz | 115 g
- Sautéed mushrooms: ½ cup | 3 oz | 90 g
- Low-fat sour cream (add after rehydration): 2 tbsp | 1 oz | 30 g
- Chopped parsley: 1 tbsp | 0.1 oz | 3 g

Cooking Instructions:

1. Sauté mushrooms until tender.
2. Combine beef, mushrooms, and cooked noodles.
3. Spread mixture evenly on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until crisp.
5. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and stir in sour cream after rehydration.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- | | |
|-----------------------|---|
| • Calories: 350 | • Minerals: Iron, Magnesium, Potassium |
| • Proteins: 35 g | • Antioxidants: Moderate (mushrooms, parsley) |
| • Fats: 10 g | • Nuts & Meats Need Oxygen: Yes |
| • Carbohydrates: 30 g | |
| • Dietary Fiber: 3 g | |
| • Vitamin C: 5 mg | |

Pork & Apple Stew with Root Vegetables



A savory stew of tender pork and sweet apples with hearty root vegetables—slow-cooked and freeze-dry ready.

Prep Time: 30 minutes | **Cook Time:** 45 minutes | **Servings:** 2

Ingredients:

- Cooked pork shoulder, cubed: 6 oz | 170 g
- Diced apples: ½ cup | 3 oz | 90 g
- Cooked root vegetables (carrots, parsnips, potatoes): 1 cup | 6 oz | 170 g
- Low-sodium chicken broth (add after rehydration): ½ cup | 4 fl oz | 120 ml
- Fresh thyme leaves: 1 tsp | 0.01 oz | 0.3 g

Cooking Instructions:

1. Slow-cook pork with root vegetables and apples until tender.
2. Cool and mix all ingredients.
3. Spread mixture evenly on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until fully dry.
5. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm chicken broth and water to cover.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- | | |
|-----------------------|--|
| • Calories: 360 | • Minerals: Iron, Magnesium, Potassium |
| • Proteins: 35 g | • Antioxidants: Moderate (apples, thyme) |
| • Fats: 8 g | • Nuts & Meats Need Oxygen: Yes |
| • Carbohydrates: 25 g | |
| • Dietary Fiber: 4 g | |
| • Vitamin C: 12 mg | |

Classic Spaghetti Bolognese



A rich and savory meat sauce served over tender spaghetti—a timeless favorite ready for freeze drying.

Prep Time: 15 minutes | **Cook Time:** 25 minutes |
Servings: 2

Ingredients:

- Cooked ground beef: 6 oz | 170 g
- Cooked spaghetti pasta: 2 cups | 8 oz | 230 g
- Diced tomatoes (canned or fresh): 1 cup | 8 oz | 230 g
- Chopped onions: ¼ cup | 2 oz | 55 g
- Minced garlic: 1 tsp | 0.04 oz | 1 g
- Italian seasoning: 1 tsp | 0.04 oz | 1 g

Cooking Instructions:

1. Sauté onions and garlic until soft.
2. Add cooked ground beef and diced tomatoes, simmer for 15 minutes with Italian seasoning.
3. Cook spaghetti until al dente; drain and cool.
4. Mix spaghetti and meat sauce gently.
5. Spread evenly on freeze dryer trays.
6. Freeze and freeze dry for 24-36 hours until crisp.
7. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water until just covered.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- Calories: 420
- Proteins: 35 g
- Fats: 15 g
- Carbohydrates: 35 g
- Dietary Fiber: 6 g
- Vitamin C: 10 mg
- Minerals: Iron, Magnesium, Potassium
- Antioxidants: Moderate (tomatoes, garlic)
- Nuts & Meats Need Oxygen: Yes

Hearty Chicken Vegetable Soup



A comforting soup packed with tender chicken and colorful veggies—perfect for freeze drying.

Prep Time: 15 minutes | **Cook Time:** 30 minutes |
Servings: 2

Ingredients:

- Cooked shredded chicken breast: 6 oz | 170 g
- Diced carrots: ½ cup | 3 oz | 90 g
- Diced celery: ½ cup | 3 oz | 90 g
- Diced potatoes: ½ cup | 4 oz | 115 g
- Chopped onion: ¼ cup | 2 oz | 55 g
- Low-sodium chicken broth (for rehydration): 2 cups | 16 fl oz | 480 ml
- Chopped parsley: 1 tbsp | 0.1 oz | 3 g

Cooking Instructions:

1. In a pot, sauté onion, carrots, and celery until softened.
2. Add diced potatoes, shredded chicken, and broth. Simmer until potatoes are tender.
3. Stir in parsley and cool slightly.
4. Spread the solids evenly on freeze dryer trays; remove excess broth.
5. Freeze and freeze dry for 24-36 hours until dry and crisp.
6. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion of freeze-dried solids in a bowl.
2. Add warm chicken broth until just covered.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 250
- Proteins: 25 g
- Fats: 5 g
- Carbohydrates: 18 g
- Dietary Fiber: 4 g
- Vitamin C: 12 mg
- Minerals: Iron, Potassium, Magnesium
- Antioxidants: Moderate (carrots, parsley)
- Nuts & Meats Need Oxygen: Yes

Beef and Barley Soup



A robust soup featuring tender beef and nutty barley, perfect for a nourishing freeze-dried meal.

Prep Time: 20 minutes | **Cook Time:** 40 minutes |
Servings: 2

Ingredients:

- Cooked diced beef stew meat: 6 oz | 170 g
- Cooked pearl barley: ½ cup | 3 oz | 90 g
- Diced carrots: ½ cup | 3 oz | 90 g
- Chopped onions: ¼ cup | 2 oz | 55 g
- Low-sodium beef broth (for rehydration): 2 cups | 16 fl oz | 480 ml
- Minced garlic: 1 tsp | 0.04 oz | 1 g
- Fresh thyme: 1 tsp | 0.04 oz | 1 g

Cooking Instructions:

1. Sauté onions and garlic until soft.
2. Add beef, carrots, barley, broth, and thyme. Simmer until beef is tender.
3. Cool the mixture slightly.
4. Spread solids evenly on freeze dryer trays; remove excess broth.
5. Freeze and freeze dry for 24-36 hours until dry and crisp.
6. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm beef broth until just covered.
3. Cover and let sit for 10-15 minutes.

Nutritional Value (Per Serving):

- Calories: 350
- Proteins: 35 g
- Fats: 12 g
- Carbohydrates: 25 g
- Dietary Fiber: 5 g
- Vitamin C: 8 mg
- Minerals: Iron, Potassium, Magnesium
- Antioxidants: Moderate (carrots, thyme)
- Nuts & Meats Need Oxygen: Yes

CHAPTER 9: Side Dishes & Light Snacks

Whether you're building a balanced meal or just need a quick bite on the go, this chapter brings you light, nutritious options designed for versatility and long shelf life.

From veggie-packed medleys to protein-rich nibbles, these side dishes and snacks are crafted for easy freeze-drying and even easier rehydration. Perfect as standalone mini-meals or tasty additions to your main course, each recipe is portioned for two and tested for flavor, texture, and reheat readiness. These freeze-dried staples will save time while adding variety and balance to your everyday meal plan — anytime, anywhere.



Roasted Tomato Salsa with Cilantro



A bold and zesty salsa with smoky roasted tomatoes and fresh cilantro, perfect as a rehydrated dip or topping.

Prep Time: 10 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Roasted cherry tomatoes, halved: 1 cup | 6 oz | 170 g
- Diced red onion: 2 tbsp | 1 oz | 30 g
- Chopped cilantro: 1 tbsp | 0.2 oz | 5 g
- Minced garlic: 1 tsp | 0.1 oz | 3 g
- Lime juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml
- Salt: pinch

Cooking Instructions:

1. Roast cherry tomatoes until slightly blistered, cool, then combine with onion, garlic, and cilantro.
2. Pulse briefly in a food processor to create a chunky texture.
3. Spread salsa mixture thinly on freeze dryer trays.
4. Freeze and freeze dry until fully dry.
5. Store airtight with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and lime juice until just moist.
3. Let sit covered for 10 minutes.

Nutritional Value (Per Serving):

- Calories: 50
- Proteins: 2 g
- Fats: 0 g
- Carbohydrates: 10 g
- Dietary Fiber: 2 g
- Vitamin C: 15 mg
- Minerals: Potassium, Iron
- Antioxidants: High (tomatoes, cilantro)
- Nuts & Meats Need Oxygen: No

Avocado-Free Green Guacamole (Pea-Based)



A creamy green guac substitute using peas for freeze-drying, delivering flavor and texture without oxidation issues.

Prep Time: 10 minutes | **Cook Time:** 5 minutes | **Servings:** 2

Ingredients:

- Cooked green peas, mashed: ½ cup | 3.5 oz | 100 g
- Diced cucumber: ¼ cup | 2 oz | 60 g
- Chopped parsley or cilantro: 1 tbsp | 0.2 oz | 5 g
- Diced red onion: 1 tbsp | 0.5 oz | 15 g
- Garlic powder: ¼ tsp | 0.03 oz | 1 g
- Lime juice (for rehydration): 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Mash peas and mix with cucumber, herbs, onion, and garlic powder.
2. Spread evenly on freeze dryer trays.
3. Freeze and freeze dry until crisp.
4. Store airtight with desiccants or oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water and lime juice until smooth.
3. Let sit covered for 10-15 minutes.
4. Mix well before serving.

Nutritional Value (Per Serving):

- Calories: 80
- Proteins: 4 g
- Fats: 1 g
- Carbohydrates: 13 g
- Dietary Fiber: 4 g
- Vitamin C: 12 mg
- Minerals: Iron, Magnesium
- Antioxidants: Moderate (peas, herbs)
- Nuts & Meats Need Oxygen: No

Carrot & Zucchini Chips



Light, crisp vegetable chips that rehydrate to a tender bite—great as a snack or savory side.

Prep Time: 10 minutes | **Cook Time:** 25 minutes |
Servings: 2

Ingredients:

- Thinly sliced carrots: ½ cup | 2.5 oz | 70 g
- Thinly sliced zucchini: ½ cup | 2.5 oz | 70 g
- Lemon juice: 1 tsp | 0.17 fl oz | 5 ml
- Dried oregano: ¼ tsp | 0.03 oz | 1 g

Cooking Instructions:

1. Steam carrot and zucchini slices until just tender.
2. Pat dry with a clean towel and toss gently with lemon juice and oregano.
3. Arrange in a single layer on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until fully dry and crisp.
5. Keep in airtight containers or mylar bags with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water just to cover.
3. Let sit for 10 minutes.

Nutritional Value (Per Serving):

- Calories: 40
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 9 g
- Dietary Fiber: 2 g
- Vitamin C: 10 mg
- Minerals: Potassium, Magnesium
- Antioxidants: Moderate (carrots, zucchini)
- Nuts & Meats Need Oxygen: No

Butternut Squash Cubes with Sage



Lightly sweet and earthy, these freeze-dried squash cubes make a comforting side or savory snack.

Prep Time: 10 minutes | **Cook Time:** 20 minutes |
Servings: 2

Ingredients:

- Steamed butternut squash, cubed: 1 cup | 6 oz | 170 g
- Dried sage: ½ tsp | 0.05 oz | 1.5 g

Cooking Instructions:

1. Steam butternut squash until tender, then cube and toss gently with dried sage.
2. Allow to cool fully before arranging in a single layer on freeze dryer trays.
3. Freeze and freeze dry for 24-36 hours until dry and crisp.
4. Keep in airtight containers or mylar bags with oxygen absorbers.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water to cover.
3. Let sit for 15 minutes until soft and warmed through.

Nutritional Value (Per Serving):

- Calories: 70
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 18 g
- Dietary Fiber: 3 g
- Vitamin A: High
- Minerals: Potassium, Magnesium
- Antioxidants: Moderate (squash, sage)
- Nuts & Meats Need Oxygen: No

Steamed Broccoli Bites



Bright and tender broccoli florets perfect for quick rehydration or a crunchy healthy snack.

Prep Time: 5 minutes | **Cook Time:** 10 minutes | **Servings:** 2

Ingredients:

- Steamed broccoli florets: 1 cup | 4 oz | 115 g

Cooking Instructions:

1. Steam broccoli until bright green and tender but not mushy.
2. Arrange evenly on freeze dryer trays in a single layer.
3. Freeze and freeze dry for 24-36 hours until crisp and dry.
4. Store airtight with oxygen absorbers or desiccants.

To Rehydrate:

1. Place one portion in a bowl.
2. Add hot water to just cover.
3. Cover and let sit for 10-15 minutes until tender.

Nutritional Value (Per Serving):

- Calories: 35
- Proteins: 3 g
- Fats: 0 g
- Carbohydrates: 7 g
- Dietary Fiber: 3 g
- Vitamin C: 60 mg
- Minerals: Iron, Potassium, Calcium
- Antioxidants: High (broccoli)
- Nuts & Meats Need Oxygen: No

Tomato & Basil Bruschetta Bites



Classic Italian flavors in a convenient rehydrated snack or appetizer.

Prep Time: 10 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Diced roasted tomatoes: ½ cup | 3 oz | 90 g
- Chopped fresh basil: 1 tbsp | 0.2 oz | 5 g
- Minced garlic: 1 tsp | 0.1 oz | 3 g
- Salt: pinch

Cooking Instructions:

1. Mix roasted tomatoes, basil, garlic, and salt in a bowl.
2. Spread mixture thinly and evenly on freeze dryer trays in a single layer.
3. Freeze and freeze dry for 24-36 hours until fully crisp and dry.
4. Store in airtight containers with oxygen absorbers or desiccants.

To Rehydrate:

1. Place one portion in a bowl.
2. Add warm water gradually until just moist.
3. Keep covered and let stand for 10 minutes before serving.

Nutritional Value (Per Serving):

- Calories: 40
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 8 g
- Dietary Fiber: 2 g
- Vitamin C: 10 mg
- Minerals: Potassium, Magnesium
- Antioxidants: High (tomatoes, basil)
- Nuts & Meats Need Oxygen: No

Parmesan Kale Crisps



Savory kale leaves lightly dusted with Parmesan for a crunchy, nutrient-rich snack.

Prep Time: 10 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Fresh kale leaves, torn: 1 cup | 1 oz | 30 g
- Grated Parmesan cheese: 2 tbsp | 0.7 oz | 20 g
- Salt: pinch

Cooking Instructions:

1. Toss kale leaves with Parmesan and a pinch of salt until evenly coated.
2. Lay out on a baking sheet and bake at 350°F (175°C) for 15 minutes until crisped.
3. Let cool.
4. Spread in a single layer on freeze dryer trays.
5. Freeze and freeze dry for 24-36 hours until completely dry and crunchy.
6. Store in airtight containers with oxygen absorbers or desiccants.

To Rehydrate:

1. For a softer texture, mist lightly with water and let sit for 5 minutes.

Nutritional Value (Per Serving):

- Calories: 70
- Proteins: 4 g
- Fats: 4 g
- Carbohydrates: 4 g
- Dietary Fiber: 2 g
- Vitamin A: 80% DV
- Vitamin C: 45 mg
- Minerals: Calcium, Iron
- Antioxidants: High (kale)
- Nuts & Meats Need Oxygen: No

Crispy Bell Pepper Strips



Naturally sweet and colorful, these bell pepper strips stay vibrant and crunchy or rehydrate to tender bites.

Prep Time: 5 minutes | **Cook Time:** 10 minutes | **Servings:** 2

Ingredients:

- Sliced red, yellow, and orange bell peppers: 1 cup | 4 oz | 115 g

Cooking Instructions:

1. Steam pepper strips briefly (2-3 minutes) until slightly tender.
2. Cool completely and pat dry.
3. Spread on trays in a single layer and freeze dry.
4. Store in mylar bags with desiccants.

To Rehydrate:

1. Add warm water just to cover. Let sit for 5-10 minutes.

Nutritional Value (Per Serving):

- Calories: 30
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 7 g
- Dietary Fiber: 2 g
- Vitamin C: 120 mg
- Minerals: Iron, Potassium
- Antioxidants: High (carotenoids)
- Nuts & Meats Need Oxygen: No

Sweet Potato Herb Coins



Lightly herbed sweet potato slices that crisp beautifully when freeze-dried and rehydrate into soft, savory bites.

Prep Time: 10 minutes | **Cook Time:** 20 minutes |
Servings: 2

Ingredients:

- Thinly sliced sweet potato rounds (steamed):
1 cup | 5 oz | 140 g
- Dried rosemary: ½ tsp | 0.05 oz | 1.5 g
- Sea salt: pinch

Cooking Instructions:

1. Steam sweet potato rounds until just tender.
2. Toss gently with rosemary and salt.
3. Spread in a single layer on freeze dryer trays.
4. Freeze and freeze dry for 24-36 hours until dry and slightly crisp.
5. Store airtight with oxygen absorbers.

To Rehydrate:

1. Add hot water to just cover. Let sit for 10 minutes.

Nutritional Value (Per Serving):

- Calories: 80
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 18 g
- Dietary Fiber: 3 g
- Vitamin A: 100% DV
- Minerals: Potassium, Manganese
- Antioxidants: High (beta-carotene)
- Nuts & Meats Need Oxygen: No

CHAPTER 10: Desserts That Won't Die

Sweet, satisfying, and shelf-stable—these desserts are ready when you are.

Freeze-dried desserts offer the magic of indulgence without the mess or spoilage. Whether you're craving fruity bites, chewy cookies, or chocolatey treats, these recipes are designed to preserve flavor and texture long after the oven's gone cold. Perfect for long-term storage, quick rehydration, or eating straight from the bag, these guilt-free goodies prove that dessert doesn't have to be fleeting. Enjoy timeless classics and creative twists that stay crisp, light, and delicious—anywhere, anytime.



Chocolate Banana Cream Dots



Banana and cocoa frozen cream dots that rehydrate into mousse or melt on your tongue.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Mashed banana: ½ cup | 4 oz | 115 g
- Greek yogurt (plain, low-fat): ½ cup | 4 oz | 115 g
- Cocoa powder (unsweetened): 1 tbsp | 0.2 oz | 6 g

Cooking Instructions:

1. Blend banana, yogurt, and cocoa powder until smooth and creamy.
2. Transfer mixture to a piping bag or zip-top bag with the corner snipped.
3. Pipe small dots onto freeze dryer trays lined with parchment paper.
4. Freeze until solid, then freeze dry until completely crisp and dry (18-24 hours).
5. Store in airtight containers with oxygen absorbers.

To Rehydrate:

1. Add a few drops of water per dot to soften into a mousse-like texture, or enjoy dry for a melt-in-your-mouth treat.

Nutritional Value (Per Serving):

- | | |
|-----------------------|--|
| • Calories: 90 | • Minerals: Potassium, Calcium |
| • Proteins: 5 g | • Antioxidants: Moderate (banana, cocoa) |
| • Fats: 1 g | • Nuts & Meats Need Oxygen: No |
| • Carbohydrates: 15 g | |
| • Dietary Fiber: 2 g | |
| • Vitamin B6: 0.4 mg | |

Grape Gel Bites



Concentrated grape flavor in a fruit leather-style cube, sweet and chewy when rehydrated or crisp when eaten dry.

Prep Time: 10 minutes | **Cook Time:** 10 minutes |
Servings: 2

Ingredients:

- Blended seedless grapes: 1 cup | 6 oz | 170 g
- Agar powder: ¼ tsp | 0.02 oz | 0.5 g

Cooking Instructions:

1. In a saucepan, heat blended grapes until steaming.
2. Stir in agar powder and simmer for 2-3 minutes, whisking continuously.
3. Pour mixture into a shallow dish or silicone mold and let cool until set.
4. Cut into small cubes once firm.
5. Arrange cubes on freeze dryer trays in a single layer.
6. Freeze, then freeze dry until fully dry and crisp (24-36 hours).
7. Store in mylar bags with oxygen absorbers.

To Rehydrate:

1. Add a few drops of warm water per cube and wait 5-10 minutes for a chewy texture.

Nutritional Value (Per Serving):

- | | |
|-----------------------|--|
| • Calories: 60 | • Minerals: Potassium, Manganese |
| • Proteins: 1 g | • Antioxidants: High (grape polyphenols) |
| • Fats: 0 g | • Nuts & Meats Need Oxygen: No |
| • Carbohydrates: 15 g | |
| • Dietary Fiber: 1 g | |
| • Vitamin C: 10 mg | |

Watermelon Sorbet Squares



Freeze-dried melon with a refreshing sorbet-like texture when rehydrated or a crisp melt-in-your-mouth snack when dry.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Blended watermelon: 1 cup | 8 oz | 225 g
- Lime juice: 1 tsp | 0.17 fl oz | 5 ml

Cooking Instructions:

1. Blend fresh seedless watermelon with lime juice until smooth.
2. Spread the mixture into a shallow tray lined with parchment or silicone.
3. Freeze flat until solid.
4. Cut into small squares and arrange in a single layer on freeze dryer trays.
5. Freeze dry for 24-36 hours until fully crisp and dry.
6. Store in sealed containers or mylar bags containing oxygen absorbers.

To Rehydrate:

1. Add a spoonful of cold water per square. Let sit for 5 minutes for a sorbet-like texture.

Nutritional Value (Per Serving):

- Calories: 45
- Proteins: 1 g
- Fats: 0 g
- Carbohydrates: 11 g
- Dietary Fiber: 0.5 g
- Vitamin C: 12 mg
- Minerals: Potassium, Magnesium
- Antioxidants: Moderate (lycopene)
- Nuts & Meats Need Oxygen: No

Pear & Ginger Chunks



Mildly sweet pear with a subtle ginger warmth—perfect for a refreshing rehydrated snack or crunchy treat.

Prep Time: 10 minutes | **Cook Time:** 5 minutes |
Servings: 2

Ingredients:

- Diced ripe pear: 1 cup | 5 oz | 140 g
- Ground ginger: ¼ tsp | 0.02 oz | 0.5 g

Cooking Instructions:

1. Steam diced pear for 3-5 minutes until just tender.
2. Drain and let cool completely.
3. Toss gently with ground ginger.
4. Spread in a single layer on freeze dryer trays.
5. Freeze and freeze dry until crisp and dry (approx. 24-36 hours).
6. Store in mylar bags or airtight jars with oxygen absorbers.

To Rehydrate:

1. Add warm water to cover lightly. Let sit for 10-15 minutes until soft.

Nutritional Value (Per Serving):

- Calories: 60
- Proteins: 0.5 g
- Fats: 0 g
- Carbohydrates: 16 g
- Dietary Fiber: 3 g
- Vitamin C: 5 mg
- Minerals: Potassium, Copper
- Antioxidants: Moderate
- Nuts & Meats Need Oxygen: No

Strawberry Yogurt Bites



Sweet, tangy, and creamy bites that melt in your mouth or rehydrate into a fruity yogurt snack.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Greek yogurt: 1 cup | 8 oz | 225 g
- Chopped strawberries: ½ cup | 3 oz | 85 g
- Honey: 1 tsp | 0.3 oz | 10 g

Cooking Instructions:

1. Mix Greek yogurt, chopped strawberries, and honey until evenly combined.
2. Spoon mixture onto freeze dryer trays in small dot shapes or spread flat and score.
3. Freeze, then freeze dry for 24-36 hours until completely dry and crisp.
4. Store in airtight containers with oxygen absorbers.

To Rehydrate:

1. Add just enough cool water to cover. Let sit for 10-15 minutes until softened.

Nutritional Value (Per Serving):

- Calories: 100
- Proteins: 7 g
- Fats: 2 g
- Carbohydrates: 14 g
- Dietary Fiber: 1 g
- Calcium: 120 mg
- Vitamin C: 25 mg
- Probiotics: High (if stored carefully)
- Nuts & Meats Need Oxygen: No

Blueberry Cheesecake Bites



Tangy and sweet bites with a creamy texture and vibrant blueberry flavor.

Prep Time: 10 minutes | **Cook Time:** 0 minutes |
Servings: 2

Ingredients:

- Cream cheese (low-fat): ½ cup | 4 oz | 115 g
- Blueberries: ½ cup | 2.5 oz | 70 g
- Vanilla extract: ½ tsp | 0.08 fl oz | 2.5 ml

Cooking Instructions:

1. Blend cream cheese, blueberries, and vanilla extract until smooth.
2. Spoon mixture onto freeze dryer trays in small dollops or spread thinly and score into bite-size pieces.
3. Freeze, then freeze dry for 24-36 hours until completely dry and firm.
4. Store airtight with oxygen absorbers.

To Rehydrate:

1. Add a small amount of cold water to cover.
2. Let sit for 10-15 minutes until creamy and soft.

Nutritional Value (Per Serving):

- Calories: 150
- Proteins: 5 g
- Fats: 9 g
- Carbohydrates: 12 g
- Dietary Fiber: 2 g
- Calcium: 100 mg
- Vitamin C: 5 mg
- Antioxidants: High (blueberries)
- Nuts & Meats Need Oxygen: No

Mini Chocolate Brownies



Rich and fudgy chocolate brownies that freeze dry well and rehydrate into a soft, chocolaty treat.

Prep Time: 10 minutes | **Cook Time:** 20 minutes | **Servings:** 2

Ingredients:

- Unsweetened cocoa powder: 2 tbsp | 0.5 oz | 14 g
- All-purpose flour: ¼ cup | 1 oz | 28 g
- Sugar: ⅓ cup | 2.3 oz | 65 g
- Melted butter (or coconut oil): 3 tbsp | 1.5 oz | 43 g
- Egg (beaten): 1 large
- Vanilla extract: ½ tsp | 0.08 fl oz | 2.5 ml
- Salt: pinch

Cooking Instructions:

1. Preheat oven to 350°F (175°C).
2. Mix cocoa powder, flour, sugar, and salt in a bowl.
3. Mix in melted butter, beaten egg, and vanilla extract until the mixture is smooth.
4. Pour batter into a small greased baking pan (about 6x6 inches).
5. Bake for 18-20 minutes, testing doneness with a toothpick that should come out with moist crumbs.
6. Cool completely.
7. Cut into small squares, arrange on freeze dryer trays in a single layer.
8. Freeze dry until completely dry (about 24-36 hours).
9. Store airtight with oxygen absorbers.

To Rehydrate:

1. Sprinkle a small amount of warm water over the brownies.
2. Let sit for 10 minutes until soft and moist.

Nutritional Value (Per Serving):

- Calories: 280
- Proteins: 4 g
- Fats: 15 g
- Carbohydrates: 32 g
- Dietary Fiber: 3 g
- Sugars: 22 g
- Minerals: Iron, Magnesium
- Nuts & Meats Need Oxygen: No

Coconut Mango Bites



Tropical sweetness in a chewy bite with creamy coconut and bright mango that freeze dry well and rehydrate to a soft, flavorful treat.

Prep Time: 10 minutes | **Cook Time:** 0 minutes (no bake) | **Servings:** 2

Ingredients:

- Diced dried mango (unsweetened): ½ cup | 2.5 oz | 70 g
- Unsweetened shredded coconut: ¼ cup | 0.7 oz | 20 g
- Honey: 1 tbsp | 0.6 oz | 18 g
- Coconut oil: 1 tbsp | 0.5 oz | 15 g

Cooking Instructions:

1. Warm honey and coconut oil gently until fully liquid.
2. In a bowl, mix diced mango, shredded coconut, and warm honey-coconut oil mixture until well combined.
3. Form the mixture into small bite-sized clusters.
4. Arrange clusters evenly on freeze dryer trays in a single layer.
5. Freeze dry until completely dry and firm, about 24-36 hours.
6. Store in airtight containers with oxygen absorbers.

To Rehydrate:

1. Add a few drops of warm water to the bites.
2. Let sit for 5-10 minutes until chewy and soft.

Nutritional Value (Per Serving):

- Calories: 210
- Proteins: 2 g
- Fats: 9 g
- Carbohydrates: 30 g
- Dietary Fiber: 3 g
- Sugars: 22 g
- Minerals: Potassium, Magnesium
- Nuts & Meats Need Oxygen: No

Maple Pecan Clusters



Crunchy pecan clusters with natural maple sweetness that freeze dry perfectly and rehydrate into a soft, flavorful snack or dessert topping.

Prep Time: 10 minutes | **Cook Time:** 15 minutes | **Servings:** 2

Ingredients:

- Raw pecans, chopped: ½ cup | 2 oz | 57 g
- Maple syrup: 2 tbsp | 1 fl oz | 30 ml
- Ground cinnamon: ¼ tsp | 0.03 oz | 1 g
- Salt: pinch

Cooking Instructions:

1. Preheat oven to 325°F (160°C).
2. Toss chopped pecans with maple syrup, cinnamon, and a pinch of salt until well coated.
3. Spoon clusters onto a parchment-lined baking sheet, forming small clumps.
4. Bake for 12-15 minutes until pecans are toasted and syrup is sticky. Cool completely.
5. Arrange clusters evenly on freeze dryer trays in a single layer.
6. Freeze dry until fully dry and crisp, about 24-36 hours.
7. Store in airtight containers with oxygen absorbers.

Nutritional Value (Per Serving):

- Calories: 300
- Proteins: 5 g
- Fats: 25 g
- Carbohydrates: 15 g
- Dietary Fiber: 3 g
- Sugars: 10 g
- Minerals: Magnesium, Potassium
- Nuts & Meats Need Oxygen: Yes

Cowboy Cookies with Chia Seeds



Hearty and chewy cowboy cookies packed with oats, chocolate, nuts, and nutrient-rich chia seeds for a unique crunch.

Prep Time: 15 minutes | **Cook Time:** 12 minutes | **Servings:** 2 (about 4-6 cookies)

Ingredients:

- Rolled oats: ½ cup | 1.5 oz | 45 g
- Whole wheat flour: ¼ cup | 1 oz | 28 g
- Brown sugar: ⅓ cup | 2.3 oz | 65 g
- Unsalted butter, softened: 3 tbsp | 1.5 oz | 43 g
- Egg (beaten): 1 large
- Vanilla extract: ½ tsp | 0.08 fl oz | 2.5 ml
- Baking soda: ¼ tsp | 0.04 oz | 1 g
- Salt: pinch
- Mini chocolate chips: ¼ cup | 1.5 oz | 43 g
- Chopped walnuts: 2 tbsp | 1 oz | 28 g
- Chia seeds: 1 tbsp | 0.5 oz | 14 g

Cooking Instructions:

1. Preheat oven to 350°F (175°C).
2. Combine butter and brown sugar in a bowl and cream until smooth.
3. Beat in the egg and vanilla extract.
4. In a separate bowl, combine flour, baking soda, and salt.
5. Add the dry ingredients to the wet mixture a little at a time, stirring gently.
6. Fold in oats, chocolate chips, walnuts, and chia seeds.
7. Drop spoonfuls of dough onto a parchment-lined baking sheet, spacing them evenly.
8. Bake for 10-12 minutes until edges are golden. Cool completely.
9. Place cookies in a single layer on freeze dryer trays.
10. Freeze dry for 24-36 hours until fully dry and crisp.
11. Store airtight with oxygen absorbers.

To Rehydrate:

1. Sprinkle lightly with warm water.
2. Let sit for 10 minutes to soften slightly.

Nutritional Value (Per Serving):

- Calories: 350
- Proteins: 6 g
- Fats: 18 g
- Carbohydrates: 42 g
- Dietary Fiber: 5 g
- Sugars: 20 g
- Minerals: Calcium, Iron, Magnesium
- Nuts & Meats Need Oxygen: Yes

PART 4: SPECIALTY SECTIONS & ADVANCED FREEZE DRYING



CHAPTER 11: Camping, Travel & Emergency Packs

Adventure, meet preparation. Whether you're heading off the grid, traveling light, or building emergency go-bags, freeze-dried foods offer the perfect mix of convenience, nutrition, and long shelf life. In this chapter, you'll discover how to pack light without sacrificing flavor, build 72-hour survival kits, and cook without fire when it matters most. From trail-ready meals to backup plans for power outages, you'll be ready for anything life (or nature) throws your way.

Light, Compact Meal Kits for the Trail

Trail meals need to be lightweight, compact, and nutritionally balanced to keep energy levels high without adding bulk to your pack. Opt for freeze-dried and dehydrated ingredients that provide a concentrated source of calories and nutrients. Combine instant oats or quinoa with powdered milk or plant-based protein powders for quick breakfasts. For lunch and dinner, look for meals with a mix of lean proteins, veggies, and healthy fats that require minimal prep. Portion control is key: pre-measure servings to avoid carrying extra weight. Don't forget flavor boosters like dried herbs, spices, or powdered sauces to keep meals exciting on long hikes. Also, pack versatile staples like nuts, seeds, and dried fruits that double as snacks and meal enhancers.

How to Build 72-Hour Survival Food Bags

When assembling your 72-hour survival food bag, focus on shelf stability, nutrition, and ease of preparation. Include foods rich in complex carbohydrates (like freeze-dried beans, rice, and whole grains) for sustained energy, as well as sources of protein (jerky, freeze-dried eggs, or legumes) for muscle maintenance. Pack calorie-dense snacks such as trail mix, nut butters, and granola bars for quick energy bursts. Don't overlook hydration: add electrolyte powders and instant drink mixes to replenish minerals lost during stress or heat. Organize your bag with clear labeling and include a small manual or checklist for quick meal assembly. Keep your stock fresh by checking dates and rotating supplies on a regular basis.

Rehydrating on the Go: Boiling Water vs. Cold Soak

Choosing between boiling water and cold soak methods depends on your gear, time, and environment. Boiling water is fast and improves texture, but it requires fuel and a stove or fire source—something not always available. When using boiling water, preheat your container to maximize heat retention and speed up rehydration. Cold soaking saves fuel and is silent, perfect for lightweight backpackers or stealth camping; however, it takes longer (usually 1-4 hours) and may result in slightly chewier textures. For cold soak, use insulated containers or wrap your meal pouch in clothing to retain heat from your body. Experiment with both methods during training hikes to find your preferred approach.

Tips for Fireless Cooking in the Wild

Fireless cooking unlocks flexibility for campers in no-fire zones or emergency situations. Besides cold soaking, try pre-prepared no-cook meals like nut butter and honey sandwiches, dehydrated hummus mixes, or instant soups that only require room-temperature water. Use insulated thermos bottles to harness body heat or solar warmth for gentle cooking and rehydration. Chemical heat packs, such as flameless ration heaters used by the military, can be lifesavers when fire isn't an option—just pack these lightweight and easy-to-activate packets. Additionally, consider packing freeze-dried desserts and snacks that require zero prep. Always carry sturdy, resealable bags or containers to protect your meals from moisture and pests when cooking options are limited.

CHAPTER 12: Pet Food & Treats

Your furry friends deserve healthy, long-lasting food too! This chapter is all about creating freeze-dried meals and treats your pets will love. Learn how to preserve meat scraps, choose safe fruits and veggies, and make homemade pet snacks that stay fresh for months. With a little prep, you can keep tails wagging—even when the pantry’s running low.

Freeze Drying Meat Scraps for Dogs and Cats

Transform leftover meat scraps into nutritious, long-lasting treats with freeze drying. This method preserves essential proteins and nutrients while eliminating moisture that causes spoilage. Use lean cuts of chicken, beef, turkey, or fish—avoid fatty or seasoned scraps that could upset your pet’s digestion. Cut meat into small, bite-sized pieces before freezing and drying for even results. Freeze-dried meat is lightweight and shelf-stable, making it perfect for training rewards, travel snacks, or emergency food supplies. Always label your freeze-dried batches with the date and type of meat, and store them in airtight containers to maintain freshness.

Safe Fruits and Veggies for Pets

Many fruits and vegetables can be healthy, tasty additions to your pet’s diet, but it’s essential to choose only those that are safe and beneficial. Freeze drying fruits like blueberries, apples (without seeds), and bananas creates crunchy treats packed with vitamins and antioxidants. For veggies, consider carrots, green beans, and sweet potatoes, which provide fiber and essential minerals. Refrain from using toxic ingredients such as grapes, raisins, onions, garlic, and avocado. When introducing freeze-dried produce to your pet, start with small amounts to monitor tolerance and ensure they enjoy the new flavors and textures. These wholesome treats support dental health and digestion, plus they’re a great low-calorie snack option.

Homemade Pet Treats That Last Months

Freeze drying homemade pet treats extends their shelf life from days or weeks to several months without preservatives. Combine pet-safe ingredients like oats, pumpkin puree, peanut butter (xylitol-free), eggs, and meats into bite-sized shapes before freeze drying. This locks in freshness, flavor, and nutrients, while keeping treats lightweight and easy to store. Homemade treats give you full control over what goes in, helping you steer clear of unnecessary fillers, additives, or added sugars found in commercial options. Pack these treats in resealable bags with oxygen absorbers to maximize longevity. Plus, they make thoughtful gifts for fellow pet lovers or emergency food stockpiles for your furry friends.

Peanut Butter & Oat Crunchies



Delicious peanut butter and oats baked into mini cookies, then freeze-dried for long-lasting crunch.

Prep Time: 10 minutes | **Cook Time:** 15 minutes |
Servings: 2

Ingredients:

- Rolled oats: ¼ cup | 1 oz | 28 g
- Natural peanut butter (xylitol-free): 2 tbsp | 1 oz | 28 g
- Egg (beaten): ½ large
- Water: 1 tbsp | 0.5 fl oz | 15 ml

Cooking Instructions:

1. Preheat oven to 325°F (160°C). Mix oats, peanut butter, egg, and water until dough forms.
2. Scoop small amounts onto parchment-lined baking sheet. Bake 12-15 minutes until firm and golden. Cool completely.
3. Spread baked cookies on freeze dryer trays.
4. Freeze dry until completely dry and crisp (about 24-36 hours). Store airtight with oxygen absorbers.

To Serve:

Serve crunchy or moisten with water to soften.

Sweet Potato & Apple Morsels



Naturally sweet, fiber-rich morsels made from sweet potatoes and apples for a wholesome snack.

Prep Time: 10 minutes | **Cook Time:** 0 minutes
(no bake) | **Servings:** 2

Ingredients:

- Cooked sweet potato, mashed:
½ cup | 3.5 oz | 100 g
- Apple (peeled, deseeded), diced: ¼ cup | 1.5 oz | 43 g

Cooking Instructions:

1. Cook and mash the sweet potato; peel and dice the apple.
2. Mix ingredients until well combined.
3. Spoon small dollops onto freeze dryer trays, flatten slightly.
4. Freeze dry until firm and dry (about 24-36 hours).
5. Store airtight with oxygen absorbers.

To Serve:

Give as crunchy bites or soak briefly in water for chewy treats.

Chicken & Carrot Bites



Tender chicken and sweet carrot pieces freeze-dried for a crunchy, protein-packed treat your pet will love.

Prep Time: 10 minutes | **Cook Time:** 0 minutes
(no bake) | **Servings:** 2

Ingredients:

- Cooked chicken breast, diced: ½ cup | 2 oz | 57 g
- Carrot, peeled and diced: ¼ cup | 1.5 oz | 43 g

Cooking Instructions:

1. Ensure chicken is fully cooked and cooled.
2. Toss chicken and carrot pieces together.
3. Spread evenly on freeze dryer trays in a single layer.
4. Freeze dry until completely dry and crisp (about 24-36 hours).
5. Store airtight with oxygen absorbers.

To Serve:

Offer dry as crunchy treats or rehydrate with a bit of warm water for softer bites.

CHAPTER 13: DIY Pantry Staples & Mixes

Turn your freeze dryer into the ultimate pantry tool! In this chapter, you'll learn how to make ready-to-use staples like soup kits, instant side blends, crunchy salad toppers, and even yogurt and kefir powders. It's all about convenience, flavor, and homemade goodness—just add water.

Soup Kits in Jars (Just Add Water!)

Imagine having hearty, homemade soups ready at a moment's notice, perfectly portioned and waiting in your pantry. DIY soup kits in jars are a game-changer for quick meals, camping trips, or emergency food supplies. By layering freeze-dried vegetables, dehydrated beans, grains, herbs, and powdered broth mixes in mason jars, you create lightweight, compact kits that only need hot water to transform into a flavorful bowl of comfort. These kits offer endless variety—think classic minestrone, spicy chili, or creamy pumpkin soup—all without the fuss of chopping or refrigeration. Plus, layering ingredients keeps textures distinct and flavors fresh until you're ready to enjoy.

Basic Vegetable Soup Kit Recipe (for 2 servings):

- Freeze-dried diced carrots: $\frac{1}{4}$ cup | 1 oz | 28 g
- Freeze-dried peas: $\frac{1}{4}$ cup | 1 oz | 28 g
- Freeze-dried corn kernels: $\frac{1}{4}$ cup | 1 oz | 28 g
- Dehydrated lentils: $\frac{1}{4}$ cup | 2 oz | 57 g
- Instant vegetable broth powder: 2 tbsp | 0.5 oz | 14 g
- Dried herbs (thyme, parsley): 1 tsp | 0.1 oz | 3 g
- Salt and pepper: pinch

Tip: Layer the lentils at the bottom to soak evenly, then add veggies and herbs on top. Store in an airtight jar with a desiccant pack to keep moisture out.

How to Prepare:

Pour 1.5 cups (360 ml) boiling water over the contents, mix well, cover, and allow to sit for 15 minutes until the grains soak up the liquid and the veggies are tender.

Instant Side Dish Blends

Say goodbye to boring, last-minute sides with instant blends that turn into fluffy rice, savory quinoa, or creamy mashed potatoes in minutes. These blends combine freeze-dried grains, dried vegetables, and seasoning powders, perfectly balanced for nutrition and taste. They're designed for easy portion control, so you can carry just what you need on your next adventure or stash them in your pantry for fast weeknight dinners. With instant side dish blends, healthy eating becomes effortless—even when you're on the go or short on time.

Savory Quinoa Side Blend Recipe (for 2 servings):

- Freeze-dried quinoa: $\frac{1}{2}$ cup | 3 oz | 85 g
- Freeze-dried diced bell peppers: 2 tbsp | 0.3 oz | 8 g

- Dehydrated onion flakes: 1 tsp | 0.05 oz | 1.5 g
- Garlic powder: ¼ tsp | 0.02 oz | 0.5 g
- Vegetable bouillon powder: 1 tbsp | 0.5 oz | 14 g
- Dried parsley flakes: 1 tsp | 0.02 oz | 0.5 g

Tip: Toast the freeze-dried grains lightly in a dry pan before packaging for an enhanced nutty flavor. Keep sealed airtight.

How to Prepare:

Combine contents with 1.5 cups (360 ml) boiling water, stir well, cover, and let sit for 15 minutes until grains absorb liquid and veggies soften.

Salad Toppers and Trail Mixes

Elevate any salad or snack time with crunchy, flavorful DIY salad toppers and trail mixes crafted from freeze-dried nuts, seeds, dried fruits, and herbs. These mixes add texture, nutrition, and bursts of flavor that turn simple greens into a satisfying meal or a trail snack into a gourmet treat. Customize your blend with spicy roasted chickpeas, tangy dried cranberries, crunchy pumpkin seeds, or herby crouton bits—perfect for variety and convenience. They’re shelf-stable, lightweight, and easy to portion, making them ideal for outdoor excursions or adding quick flair to everyday meals.

Crunchy Trail Mix Recipe (for 2 servings):

- Freeze-dried roasted chickpeas: ¼ cup | 1 oz | 28 g
- Dried cranberries (unsweetened): 2 tbsp | 0.5 oz | 14 g
- Raw pumpkin seeds: 2 tbsp | 1 oz | 28 g
- Freeze-dried apple chunks: 2 tbsp | 0.5 oz | 14 g
- Dried rosemary flakes: ½ tsp | 0.01 oz | 0.3 g
- Sea salt: pinch

Tip: For a spicy twist, add a pinch of smoked paprika or cayenne pepper when roasting chickpeas before freeze drying.

How to Use:

Sprinkle over salads, yogurt, or eat as a satisfying snack on the trail.

Yogurt and Kefir Powders

Harness the probiotic power of yogurt and kefir in a shelf-stable, powdered form that’s perfect for on-the-go gut health. These powders are made by freeze-drying live-culture yogurts or kefirs, preserving their beneficial bacteria without refrigeration. Simply rehydrate with water or your favorite milk alternative for a creamy, tangy treat rich in probiotics. Whether you’re camping, traveling, or stocking an emergency pantry, yogurt and kefir powders provide a delicious way to support digestion and boost immunity wherever life takes you.

Basic Rehydrated Yogurt Powder Recipe (for 2 servings):

- Freeze-dried plain Greek yogurt powder: ½ cup | 2 oz | 57 g
- Freeze-dried fruit powder (optional, e.g., strawberry or blueberry): 1 tbsp | 0.3 oz | 10 g

Tip: Store yogurt powder in airtight containers away from light to preserve probiotics. Adding a pinch of powdered milk can enhance creaminess when rehydrated.

How to Prepare:

Mix ½ cup (120 ml) cool water with the yogurt powder, stir thoroughly, and let sit for 5 minutes before eating. Add fruit powder for natural sweetness and extra flavor.

Storage and Safety Tips for Freeze Drying

- **Use Airtight Containers:** Once freeze drying is complete, store your food in vacuum-sealed bags or airtight jars with oxygen absorbers to protect against moisture and oxygen, which can lead to spoilage and reduced quality.
- **Keep Cool and Dark:** Store freeze-dried items in a dry, cool area away from sunlight exposure. Heat and light accelerate nutrient loss and can reduce shelf life.
- **Label Clearly:** Mark each container with the contents and freeze drying date. Most properly stored freeze-dried foods last 15-25 years, but labeling helps you rotate stock and use older items first.
- **Avoid Repeated Opening:** Limit how often you open storage containers to prevent moisture absorption from the air. Consider portioning into smaller packets for convenience.
- **Check for Moisture:** If you notice clumping or changes in texture, this could indicate moisture has entered. If food feels soft or smells off, discard it to avoid health risks.
- **Freeze Dry Safely:** Ensure all ingredients are fresh and properly prepared before freeze drying. Some foods require blanching or pre-cooking to ensure safety and proper texture after rehydration.
- **Hydrate with Clean Water:** Always use clean, potable water for rehydrating freeze-dried meals to prevent foodborne illness.

CHAPTER 14: Medicinal & Herbal Projects

Bring the healing magic of nature right into your home with freeze-dried herbs, roots, and mushrooms! In this chapter, you'll learn how to preserve these natural remedies so they stay fresh and powerful for making teas, tinctures, and first-aid mixes whenever you need them. We'll show you simple ways to store your herbal treasures and easy DIY projects to keep your wellness routine natural and handy. Whether you're just starting out or already love herbal remedies, this chapter makes it fun and simple to tap into nature's medicine cabinet.

Freeze Drying Herbs for Teas and Tinctures

Preserving fresh herbs through freeze drying locks in their delicate flavors, vibrant colors, and potent medicinal properties, making them ideal for crafting herbal teas and tinctures year-round. Unlike air drying, freeze drying retains essential oils and active compounds that deliver maximum therapeutic benefits. Imagine sipping a revitalizing chamomile tea or steeping echinacea tincture made from perfectly preserved garden-fresh herbs, even months later. Freeze-dried herbs rehydrate quickly, infusing water with rich aromas and healing qualities, while tincture extraction becomes more effective with dried herb powders.

Tip: Harvest herbs early in the morning when essential oils are at their peak. Rinse gently, pat dry, and freeze dry whole leaves or chopped stems. Store in airtight glass jars with silica packets to maintain dryness.

Simple Chamomile Tea Blend:

- Freeze-dried chamomile flowers: 1 tbsp | 0.2 oz | 6 g
- Freeze-dried lemon balm: 1 tsp | 0.1 oz | 3 g
- Dried rose hips (optional): 1 tsp | 0.1 oz | 3 g

How to Prepare:

Steep 1 tbsp of blend in 8 oz (240 ml) hot water for 5-7 minutes. Strain and enjoy calming relief.

Storing Roots and Mushrooms

Roots and medicinal mushrooms like ginger, turmeric, reishi, and shiitake are prized for their health-boosting effects but can be bulky and perishable. Freeze drying transforms these dense botanicals into lightweight, shelf-stable powders or chips that retain their bioactive compounds and flavor profile. Proper storage is key—keep roots and mushrooms in moisture-proof, airtight containers away from heat and sunlight to preserve potency and prevent spoilage. Freeze-dried roots can be grated or rehydrated for cooking, while mushroom powders easily blend into soups, broths, or capsules.

Tip: Pre-slice roots and mushrooms evenly before freeze drying to ensure uniform drying and easier storage. Label jars with the harvest date and species for quick identification.

DIY Turmeric Root Powder:

- Freeze-dried turmeric root slices: 1 cup | 1 oz | 28 g

Process in a spice grinder until finely powdered. Use in teas, golden milk, or homemade capsules.

Homemade Herbal First-Aid Mixes

Creating your own herbal first-aid mixes is a powerful way to harness nature's healing gifts for cuts, scrapes, burns, and insect bites. Combining freeze-dried herbs like calendula, plantain, lavender, and comfrey into salves, poultices, or dry blends provides soothing anti-inflammatory, antibacterial, and wound-healing properties. Freeze drying ensures the herbs retain their medicinal compounds longer than traditional drying methods. Keep these mixes handy in your emergency kit or medicine cabinet for quick, natural relief.

Easy Healing Salve Mix (for 2 small jars):

- Freeze-dried calendula petals: 2 tbsp | 0.3 oz | 8 g
- Freeze-dried plantain leaves: 1 tbsp | 0.2 oz | 5 g
- Freeze-dried lavender buds: 1 tsp | 0.05 oz | 1.5 g
- Beeswax: ¼ cup | 1.2 oz | 34 g
- Olive oil: ½ cup | 4 fl oz | 120 ml

How to Prepare:

Infuse olive oil with freeze-dried herbs by gently warming together for 1 hour (do not boil). Strain and mix infused oil with melted beeswax. Pour into jars and cool. Apply to minor wounds or dry skin as needed.

Storage and Safety Tips for Medicinal & Herbal Freeze-Drying Projects

- **Avoid Moisture:** Medicinal herbs and roots must stay completely dry to prevent mold and preserve potency. Use airtight glass jars with desiccants or vacuum-sealed bags.
- **Label Thoroughly:** Include herb names, harvest and freeze-dry dates, and intended use (tea, tincture, topical) on each container.
- **Store Cool and Dark:** Heat and light degrade medicinal properties. A dark cupboard or pantry with stable temperature is ideal.
- **Use Clean Equipment:** Ensure all utensils and containers are sterilized to avoid contamination, especially when making topical salves.
- **Consult Experts:** Some herbs can interact with medications or cause allergies—always research or consult a healthcare professional before using homemade medicinal products.
- **Test Small Amounts:** When trying new herbal mixes or salves, apply a small patch test to check for skin sensitivity or allergic reactions.
- **Freeze-Dry Fresh and Clean:** Harvest herbs at their peak and wash gently to remove dirt and insects, but dry thoroughly before freeze drying to avoid clumping or spoilage.

Freeze-Dried Herbal Recipes & Medicinal Projects

Freeze-Dried Echinacea Immune Boost Tea

Echinacea is well-known for its immune-supporting benefits, perfect for seasonal wellness.

Ingredients:

- Freeze-dried echinacea leaves and flowers: 2 tbsp | 0.4 oz | 12 g
- Freeze-dried elderberries (optional for flavor): 1 tbsp | 0.2 oz | 6 g
- Dried peppermint leaves: 1 tsp | 0.1 oz | 3 g

Preparation:

Steep 1 tablespoon of the herbal blend in 8 oz (240 ml) boiling water for 10 minutes. Strain and drink warm to support respiratory health and soothe sore throats.

Freeze-Dried Ginger Turmeric Digestive Tonic

A warming blend that promotes digestion and reduces inflammation.

Ingredients:

- Freeze-dried ginger root slices: 1 tbsp | 0.3 oz | 8 g
- Freeze-dried turmeric root powder: 1 tsp | 0.1 oz | 3 g
- Ground cinnamon: ¼ tsp | 0.01 oz | 0.3 g
- Raw honey (add after brewing): 1 tsp | 0.2 oz | 6 g

Preparation:

Simmer ginger and turmeric in 1 cup (240 ml) water for 10 minutes, strain, add cinnamon and honey once cooled slightly. Sip after meals for a gentle digestive aid.

Calendula & Plantain Soothing Herbal Salve

Perfect for minor cuts, scrapes, and skin irritation, calendula and plantain have gentle anti-inflammatory and healing properties.

Ingredients:

- Freeze-dried calendula petals: 2 tbsp | 0.3 oz | 8 g
- Freeze-dried plantain leaves: 1 tbsp | 0.2 oz | 5 g
- Olive oil: ½ cup | 4 fl oz | 120 ml
- Beeswax: ¼ cup | 1.2 oz | 34 g

Instructions:

Gently warm olive oil and add freeze-dried herbs to infuse for 1 hour (keep temperature below 120°F/50°C). Strain herbs, melt beeswax, and stir into warm oil. Pour into small jars and cool. Use to calm irritated or dry skin.

Reishi Mushroom Immune Support Capsules

Reishi mushrooms are adaptogens known for immune modulation and stress reduction.

Ingredients:

- Freeze-dried reishi mushroom powder: 1 tbsp | 0.3 oz | 8 g
- Empty gelatin or vegetarian capsules (size 0)

Instructions:

Fill capsules with reishi powder using a capsule filling machine or by hand. Take 1-2 capsules daily with water to promote immune health and relaxation.

Lavender & Chamomile Sleep Sachets

A gentle, fragrant sachet to promote restful sleep and relaxation.

Ingredients:

- Freeze-dried lavender buds: 2 tbsp | 0.3 oz | 8 g
- Freeze-dried chamomile flowers: 2 tbsp | 0.3 oz | 8 g

- Dried oat straw (optional): 1 tbsp | 0.2 oz | 5 g
- Small muslin bags or cotton sachets

Instructions:

Mix all herbs together and fill sachets. Place under your pillow or hang near your bed to inhale calming aromas and improve sleep quality naturally.

Storage & Safety Reminder

- Store all freeze-dried herbs and mixtures in airtight containers with desiccants.
- Label each batch with date and contents.
- Keep salves refrigerated or in a cool, dark place to extend shelf life.
- When making capsules or topical products, ensure hygiene to avoid contamination.
- Consult a medical professional prior to use, especially if you are pregnant, breastfeeding, or on medication.



PART 5: USING, REHYDRATING & COOKING WITH FREEZE-DRIED INGREDIENTS



CHAPTER 15: Rehydration 101

Rehydration is the essential step that brings your freeze-dried meals back to life. Knowing how and when to rehydrate can make the difference between a bland, chewy bite and a flavorful, satisfying meal. This chapter covers the key aspects of rehydration to help you get it just right every time.

Cold Soak vs. Boiling: Which Is Better and When?

Cold soaking is the easiest, no-heat method. Just add cold or room-temperature water and let your food sit, usually 15 to 30 minutes or longer. It's perfect for trail snacks, camping without a stove, or quick meals when you want to conserve fuel. However, some foods—like grains, pasta, or tough vegetables—rehydrate better and faster with boiling water. Boiling water softens ingredients more thoroughly and can help release flavors, making your meal tastier and easier to digest.

How Long Does Rehydration Take?

Rehydration time varies depending on the food and method. Light, airy ingredients like freeze-dried fruits or yogurt powders usually take just a few minutes to soften. More dense or starchy foods like beans, rice, or stews may take 10 to 20 minutes or more with boiling water. Cold soak times tend to be longer—up to 30 minutes or even overnight for some grains or mixes. The key is to check texture and adjust soaking time as needed.

Measuring Water to Ingredient Ratios

Getting the right amount of water is crucial. Too little water leaves food dry and crumbly; too much dilutes flavor and makes meals soupy. A good rule of thumb is to start with the amount listed in your recipe or on your freeze-dried package, usually about 1 to 1.5 times the volume of the dry ingredients. For example, if your meal kit has 1 cup of dry mix, begin with 1 to 1½ cups of water. Adjust based on your preference for thicker or thinner texture.

Boosting Flavor After Rehydration

Sometimes, rehydrated foods can taste a bit muted. A quick flavor boost can bring your meal to life. Try adding a pinch of salt, herbs, spices, or a splash of broth. A squeeze of lemon or a dash of hot sauce can brighten flavors. For creamy dishes, stirring in a bit of powdered cheese, nutritional yeast, or a drizzle of olive oil can add richness. Experiment with small additions to suit your taste and make every bite enjoyable. Master these rehydration basics, and your freeze-dried meals will always be tasty, nourishing, and ready whenever you need them.

Rehydration Tips

- **Use the Right Water Temperature:**

For delicate foods like fruits or yogurt powders, cold or room temperature water works best to preserve texture and flavor. For hearty meals with grains, beans, or meats, hot or boiling water speeds rehydration and improves taste.

- **Cover Your Container:**

To keep in heat and steam during soaking, cover your container with a lid or plastic wrap. This helps food rehydrate faster and keeps out dust or insects if outdoors.

- **Let It Rest:**

After adding water, allow your food to rest undisturbed for the recommended time. Stirring occasionally can help break up clumps and ensure even hydration.

- **Adjust Water Amounts Slowly:**

Start with the suggested water amount, but if your food seems too dry after soaking, add small amounts of water bit by bit rather than all at once. This prevents soggy meals.

- **Use a Thermos for Boiling Water:**

When camping or traveling, carrying boiling water in a good thermos lets you rehydrate meals without needing a stove on hand.

- **Test Texture Before Eating:**

Check your food's texture before digging in. If it's still tough or chewy, give it more time or add a splash of more water and wait a few minutes.

- **Pre-Soak for Quick Cooking:**

For very dense or thick meals, soaking dry ingredients for 5-10 minutes before heating can speed cooking and improve texture.

- **Avoid Over-Soaking:**

Leaving foods too long in water can lead to mushy or flavorless results, especially with freeze-dried fruits or vegetables. Stick close to recommended times.

- **Add Flavor After Rehydration:**

Don't forget to enhance taste with salt, herbs, spices, or fats like olive oil after rehydrating, especially if you used cold soak, which may mute flavors.

- **Practice Makes Perfect:**

Every freeze-dried brand or recipe can differ slightly. Experiment with water ratios and soak times to find what works best for your palate and meal type.

CHAPTER 16: Everyday Recipes with Freeze-Dried Ingredients

Incorporating freeze-dried ingredients into your daily cooking opens a world of convenience, flavor, and nutrition without sacrificing quality. Whether you're pressed for time or want to extend your pantry's versatility, freeze-dried foods can easily replace fresh ingredients in a variety of everyday dishes — from stews and casseroles to smoothies and sauces. This chapter shows you how to master the art of freeze-dried cooking with simple swaps, clever texture techniques, and creative toppings that bring your meals to life.

How to Swap Freeze-Dried for Fresh in Your Daily Cooking

Freeze-dried ingredients retain most of their original flavor and nutrients, making them excellent substitutes for fresh produce, meats, and dairy in your recipes. For example, you can replace fresh mushrooms with freeze-dried ones in casseroles or use freeze-dried berries in your morning oatmeal. The key is to adjust rehydration times and liquid amounts based on the ingredient to achieve the best taste and texture. Freeze-dried herbs, garlic, and onion powders are also fantastic shelf-stable replacements that add flavor without the mess.

Making Stews, Casseroles, Sauces, and Smoothies

Freeze-dried ingredients work beautifully in slow-cooked dishes like stews and casseroles where long simmering softens textures and blends flavors. Add freeze-dried vegetables early in the cooking process so they fully rehydrate and absorb savory broth. For sauces, finely crushed freeze-dried fruits or tomatoes create rich, concentrated flavors without added moisture. Smoothie lovers will enjoy the convenience of freeze-dried fruits and even freeze-dried greens, which blend quickly without diluting your drink.

Texture Tricks: Getting It Crispy, Chewy, or Soft

One of the biggest challenges with freeze-dried ingredients is texture. Want crispy? Toss freeze-dried fruits or veggies lightly in oil and bake or pan-fry for a crunchy snack or salad topper. For chewy bites, try partially rehydrating fruit chunks before adding to yogurt or granola. Softer textures come from fully rehydrating in hot liquids or sauces. Experiment with drying and rehydrating times to tailor your ingredients' texture exactly to your liking.

Freeze-Dried Toppings and Mix-Ins

Don't underestimate the power of freeze-dried toppings! Sprinkle freeze-dried cheese crisps, berries, or herbs over salads, soups, and baked goods to add bursts of flavor and color. Mix freeze-dried granola or nuts into cereals or trail mixes for extra crunch without extra weight or spoilage. These lightweight, shelf-stable additions make every meal more exciting and flavorful, perfect for busy lifestyles and emergency preparedness alike.

Ingredient Swap Chart: Fresh vs. Freeze-Dried

Fresh Ingredient	Freeze-Dried Substitute	Rehydration Tips	Texture Notes & Usage Tips
Fresh berries (strawberries, blueberries, raspberries)	Freeze-dried berries (whole or crushed)	Add directly to smoothies or soak in liquid for 5-10 minutes for soft texture	Use whole for chewy snacks or crushed for smoothies, oatmeal, or baking
Fresh mushrooms	Freeze-dried mushroom slices or chunks	Soak in warm water or broth for 10-15 minutes	Fully rehydrate for casseroles and stews; toast lightly for crunch
Fresh herbs (parsley, basil, cilantro)	Freeze-dried herb flakes or powders	No rehydration needed; add directly to dishes	Use in sauces, dressings, and as garnish for fresh flavor
Fresh tomatoes	Freeze-dried tomato powder or pieces	Rehydrate in warm water or add powder directly to sauces	Powder is great for sauces and seasoning blends

Fresh onions or garlic	Freeze-dried minced onions/ garlic powder	No rehydration needed; add directly to recipes	Adds strong flavor without moisture
Fresh spinach or kale	Freeze-dried leafy greens	Soak in hot water for 5-10 minutes before adding to dishes	Great in smoothies or cooked dishes; for crisp texture, use as is
Fresh bell peppers	Freeze-dried diced bell peppers	Soak in warm water for 10 minutes	Use in soups and stews or eat as crunchy snack after light toasting
Fresh corn kernels	Freeze-dried corn	Rehydrate for 5-7 minutes in warm water	Sweet and chewy addition to salads, stews, or casseroles
Fresh cheese (cheddar, parmesan)	Freeze-dried cheese crisps or powders	No rehydration needed	Use as crunchy toppings or mix powder into sauces for cheesy flavor
Fresh fruit chunks (mango, pineapple, apple)	Freeze-dried fruit chunks	Soak in water for 5-10 minutes for chewiness	Great in trail mixes, cereals, or yogurt; lightly rehydrate for softness

Quick Tips for Using Freeze-Dried Ingredients in Everyday Cooking:

- **Adjust Liquids:** Freeze-dried ingredients absorb water when rehydrating, so reduce other liquids slightly in your recipe.
- **Timing Matters:** Add freeze-dried veggies early in slow cooking but add freeze-dried herbs at the end to preserve flavor.
- **Texture Control:** Experiment with soaking times to get your preferred texture from soft to chewy to crispy.
- **Flavor Boosters:** Use freeze-dried powders (like garlic, onion, tomato) to concentrate flavor without adding bulk or moisture.

PART 6: TOOLS, CHARTS, FAQ & RESOURCES

CHAPTER 17: Handy Freeze Drying Charts

Freeze Dry Time by Food

Food Type	Freeze Dry Time (hours)	Notes
Fresh Fruits (berries, apples, mango)	20-24	Small pieces dry faster
Vegetables (carrots, peas, corn)	24-30	Cut into uniform sizes for best results
Meats (chicken, beef, fish)	30-36	Fully cooked before freeze drying
Herbs and Leaves	12-16	Dry whole leaves or chopped herbs
Dairy (yogurt, cheese)	24-30	Use low-fat versions for best texture
Prepared meals (soups, stews)	36-48	Ensure thin, even layers

Water Ratios for Rehydration

Freeze-Dried Food	Water Ratio (by volume)	Rehydration Time	Tips
Fruits	1:1 to 1.5	5-10 minutes	Adjust for texture preference
Vegetables	1:1.5 to 2	10-20 minutes	Use hot water for faster rehydration
Meats	1:1 to 1.5	20-30 minutes	Soak in broth for better flavor

Soups/Stews	Use as directed	20-30 minutes	Add extra water if needed
Herbs	Minimal or none	Add directly to dishes	No soaking required
Dairy powders	1:3 (powder:water)	Mix until smooth	Use chilled water for yogurt

Nutrient Retention Comparisons

Nutrient	Freeze Drying (%)	Dehydration (%)	Freezing (%)	Fresh (Baseline)
Vitamin C	70-90	30-50	80-90	100
Vitamin A	85-95	60-80	85-95	100
Protein	95-100	80-90	95-100	100
Minerals (Iron, Mg)	90-100	70-90	90-100	100
Flavor compounds	85-95	50-70	85-95	100

Freeze drying retains the highest nutrient content compared to traditional dehydration, making it ideal for long-term storage.

Troubleshooting Quick Chart

Problem	Possible Cause	Solution
Product too wet/damp	Insufficient drying time	Extend freeze drying cycle
Product too brittle	Over-dried or too thin slices	Reduce drying time or increase slice thickness
Loss of flavor	Poor sealing or oxidation	Use oxygen absorbers; reseal containers
Clumping of powders	Moisture exposure	Store in airtight containers with desiccants
Freezer malfunction	Power outage or mechanical failure	Check equipment regularly; have backup plan

CHAPTER 18: Frequently Asked Questions

Freeze drying is an incredible way to preserve food, but it often raises common questions—especially for beginners. This chapter answers some of the most frequently asked questions about freeze-dried food, from why your food might look pale to how to safely rehydrate meals and snacks. Whether you're troubleshooting your freeze dryer or curious about using leftovers, these tips will help you get the best results and enjoy your freeze-dried foods with confidence.

Why Does My Food Look Pale?

Freeze drying removes moisture but also some pigments, which can cause food to appear lighter or paler than fresh. This is normal and doesn't mean the food is bad. Some fruits and vegetables naturally lose vibrant color during freeze drying, but the flavor and nutrients remain largely intact. To improve appearance when rehydrated, add natural color enhancers like fresh herbs or a squeeze of lemon juice.

What If Something Isn't Fully Dry?

If your freeze-dried food feels soft, sticky, or chewy instead of dry and crisp, it means it hasn't finished drying. Incomplete drying can lead to spoilage. Simply put the food back into the freeze dryer for additional time until it feels brittle or crunchy. Always check dryness by breaking a piece—fully dried foods snap easily. Proper drying is crucial for long shelf life.

Can I Freeze Dry Leftovers or Restaurant Food?

Yes! Freeze drying leftovers or takeout meals is a fantastic way to reduce waste and save money. However, avoid foods with high fat content or creamy sauces, as fats don't freeze dry well and can cause spoilage. Pre-cook and cool leftovers thoroughly before freeze drying. Slice or portion foods evenly to ensure consistent drying. Label with the date and contents for easy tracking.

Safe Rehydration Tips for Meals & Snacks

- Use clean, safe water—boiled or filtered is best.
- Follow recommended water-to-food ratios for best texture.
- Boiling water speeds up rehydration but can sometimes soften foods too much. Cold soaking is gentler and preserves texture but takes longer.
- Add flavor boosters after rehydration, like herbs, spices, or broth, to enhance taste.
- Never leave rehydrated foods at room temperature for more than 2 hours to prevent bacterial growth.
- Store unused rehydrated portions in the fridge and consume quickly.

CHAPTER 19: 30-Day Freeze Dried Meal Plan

Say goodbye to mealtime stress with this easy, ready-to-go 30-day meal plan featuring delicious freeze-dried breakfasts, lunches, and dinners. Designed to simplify your life, the plan includes a convenient weekly shopping and drying list to keep you stocked and prepared. Helpful rehydration reminders ensure every meal tastes just right, while the color-coded layout makes planning quick and hassle-free. Whether you're new to freeze drying or a seasoned pro, this chapter turns meal prep into a breeze.

Day	Breakfast	Cal	Lunch	Cal	Dinner	Cal	Snack	Cal	Dessert	Cal	Total Cal
1	"Savory Veggie Egg Scramble" (page 20)	210	"Barley Vegetable Stew" (page 26)	185	"Mediterranean Cod with Couscous & Tomatoes" (page 31)	310	"Roasted Tomato Salsa with Cilantro" (page 37)	80	"Chocolate Banana Cream Dots" (page 42)	150	935
2	"Apple Cinnamon Oatmeal" (page 20)	190	"Zucchini Chickpea Patties" (page 26)	170	"Cajun Shrimp with Wild Rice & Corn" (page 32)	290	"Avocado-Free Green Guacamole (Pea-Based)" (page 37)	90	"Grape Gel Bites" (page 42)	120	860
3	"Quinoa Breakfast Bowl with Banana" (page 21)	240	"Egg Noodle & Turkey Veggie Stir Bowl" (page 27)	170	"Tuna & Farro Salad" (page 32)	310	"Carrot & Zucchini Chips" (page 38)	110	"Watermelon Sorbet Squares" (page 43)	100	930
4	"Sweet Potato Hash & Eggs" (page 21)	220	"Tuna & Chickpea Medley" (page 27)	170	"Salmon with Brown Rice & Broccoli" (page 33)	330	"Butternut Squash Cubes with Sage" (page 38)	100	"Pear & Ginger Chunks" (page 43)	110	930
5	"Spinach & Egg Mini Frittatas" (page 22)	200	"BBQ Chicken with Quinoa & Roasted Bell Peppers" (page 28)	170	"Turkey Meatballs with Zucchini Noodles & Tomato Sauce" (page 33)	280	"Steamed Broccoli Bites" (page 39)	70	"Strawberry Yogurt Bites" (page 44)	140	860
6	"Chicken & Basil Flatbread Pizzas" (page 22)	270	"Creamy Avocado Pasta Primavera (Oil-Free)" (page 28)	170	"Beef Stroganoff with Mushrooms & Egg Noodles" (page 34)	350	"Tomato & Basil Bruschetta Bites" (page 39)	120	"Blueberry Cheesecake Bites" (page 44)	200	1110
7	"Veggie Hummus Tortilla Rolls" (page 23)	190	"Turkey & Spinach Lasagna" (page 29)	190	"Pork & Apple Stew with Root Vegetables" (page 34)	340	"Parmesan Kale Crisps" (page 40)	130	"Mini Chocolate Brownies" (page 45)	220	1070

Day	Breakfast	Cal	Lunch	Cal	Dinner	Cal	Snack	Cal	Dessert	Cal	Total Cal
8	"Peanut Date Protein Bars" (page 23)	230	"Beef Teriyaki with Snow Peas & Carrots" (page 29)	210	"Classic Spaghetti Bolognese" (page 35)	360	"Crispy Bell Pepper Strips" (page 40)	60	"Cowboy Cookies with Chia Seeds" (page 47)	210	1070
9	"Mushroom & Cheese Quesadilla" (page 24)	290	"Beef & Sweet Potato Chili" (page 30)	330	"Hearty Chicken Vegetable Soup" (page 35)	250	"Sweet Potato Herb Coins" (page 41)	140	"Coconut Mango Bites" (page 46)	180	1190
10	"Chicken & Rice Burritos" (page 24)	370	"Tuna & Brown Rice Salad with Peas & Carrots" (page 30)	300	"Beef and Barley Soup" (page 36)	300	"Roasted Tomato Salsa with Cilantro" (page 37)	80	"Maple Pecan Clusters" (page 46)	230	1280
11	"Buckwheat & Blueberry Pancakes" (page 25)	280	"Barley Vegetable Stew" (page 26)	185	"Mediterranean Cod with Couscous & Tomatoes" (page 31)	310	"Avocado-Free Green Guacamole (Pea-Based)" (page 37)	90	"Chocolate Banana Cream Dots" (page 42)	150	1015
12	"Savory Veggie Egg Scramble" (page 20)	210	"Zucchini Chickpea Patties" (page 26)	170	"Cajun Shrimp with Wild Rice & Corn" (page 32)	290	"Carrot & Zucchini Chips" (page 38)	110	"Grape Gel Bites" (page 42)	120	900
13	"Apple Cinnamon Oatmeal" (page 20)	190	"Egg Noodle & Turkey Veggie Stir Bowl" (page 27)	170	"Tuna & Farro Salad" (page 32)	310	"Butternut Squash Cubes with Sage" (page 38)	100	"Watermelon Sorbet Squares" (page 43)	100	870
14	"Quinoa Breakfast Bowl with Banana" (page 21)	240	"Tuna & Chickpea Medley" (page 27)	170	"Salmon with Brown Rice & Broccoli" (page 33)	330	"Steamed Broccoli Bites" (page 39)	70	"Pear & Ginger Chunks" (page 43)	110	920
15	"Sweet Potato Hash & Eggs" (page 21)	220	"BBQ Chicken with Quinoa & Roasted Bell Peppers" (page 28)	170	"Turkey Meatballs with Zucchini Noodles & Tomato Sauce" (page 33)	280	"Tomato & Basil Bruschetta Bites" (page 39)	120	"Strawberry Yogurt Bites" (page 44)	140	930

Day	Breakfast	Cal	Lunch	Cal	Dinner	Cal	Snack	Cal	Dessert	Cal	Total Cal
16	"Spinach & Egg Mini Frittatas" (page 22)	200	"Creamy Avocado Pasta Primavera (Oil-Free)" (page 28)	170	"Beef Stroganoff with Mushrooms & Egg Noodles" (page 34)	350	"Parmesan Kale Crisps" (page 40)	130	"Blueberry Cheesecake Bites" (page 44)	200	1050
17	"Chicken & Basil Flatbread Pizzas" (page 22)	270	"Turkey & Spinach Lasagna" (page 29)	190	"Pork & Apple Stew with Root Vegetables" (page 34)	340	"Crispy Bell Pepper Strips" (page 40)	60	"Mini Chocolate Brownies" (page 45)	220	1080
18	"Veggie Hummus Tortilla Rolls" (page 23)	190	"Beef Teriyaki with Snow Peas & Carrots" (page 29)	210	"Classic Spaghetti Bolognese" (page 35)	360	"Sweet Potato Herb Coins" (page 41)	140	"Cowboy Cookies with Chia Seeds" (page 47)	210	1110
19	"Peanut Date Protein Bars" (page 23)	230	"Beef & Sweet Potato Chili" (page 30)	330	"Hearty Chicken Vegetable Soup" (page 35)	250	"Roasted Tomato Salsa with Cilantro" (page 37)	80	"Coconut Mango Bites" (page 46)	180	1070
20	"Mushroom & Cheese Quesadilla" (page 24)	290	"Tuna & Brown Rice Salad with Peas & Carrots" (page 30)	300	"Beef and Barley Soup" (page 36)	300	"Avocado-Free Green Guacamole (Pea-Based)" (page 37)	90	"Maple Pecan Clusters" (page 46)	230	1210
21	"Chicken & Rice Burritos" (page 24)	370	"Barley Vegetable Stew" (page 26)	185	"Mediterranean Cod with Couscous & Tomatoes" (page 31)	310	"Carrot & Zucchini Chips" (page 38)	110	"Chocolate Banana Cream Dots" (page 42)	150	1125
22	"Buckwheat & Blueberry Pancakes" (page 25)	280	"Zucchini Chickpea Patties" (page 26)	170	"Cajun Shrimp with Wild Rice & Corn" (page 32)	290	"Butternut Squash Cubes with Sage" (page 38)	100	"Grape Gel Bites" (page 42)	120	960
23	"Savory Veggie Egg Scramble" (page 20)	210	"Egg Noodle & Turkey Veggie Stir Bowl" (page 27)	170	"Tuna & Farro Salad" (page 32)	310	"Steamed Broccoli Bites" (page 39)	70	"Watermelon Sorbet Squares" (page 43)	100	860

Day	Breakfast	Cal	Lunch	Cal	Dinner	Cal	Snack	Cal	Dessert	Cal	Total Cal
24	"Apple Cinnamon Oatmeal" (page 20)	190	"Tuna & Chickpea Medley" (page 27)	170	"Salmon with Brown Rice & Broccoli" (page 33)	330	"Tomato & Basil Bruschetta Bites" (page 39)	120	"Pear & Ginger Chunks" (page 43)	110	920
25	"Quinoa Breakfast Bowl with Banana" (page 21)	240	"BBQ Chicken with Quinoa & Roasted Bell Peppers" (page 28)	170	"Turkey Meatballs with Zucchini Noodles & Tomato Sauce" (page 33)	280	"Parmesan Kale Crisps" (page 40)	130	"Strawberry Yogurt Bites" (page 44)	140	960
26	"Sweet Potato Hash & Eggs" (page 21)	220	"Creamy Avocado Pasta Primavera (Oil-Free)" (page 28)	170	"Beef Stroganoff with Mushrooms & Egg Noodles" (page 34)	350	"Crispy Bell Pepper Strips" (page 40)	60	"Blueberry Cheesecake Bites" (page 44)	200	1000
27	"Spinach & Egg Mini Frittatas" (page 22)	200	"Turkey & Spinach Lasagna" (page 29)	190	"Pork & Apple Stew with Root Vegetables" (page 34)	340	"Sweet Potato Herb Coins" (page 41)	140	"Mini Chocolate Brownies" (page 45)	220	1090
28	"Chicken & Basil Flatbread Pizzas" (page 22)	270	"Beef Teriyaki with Snow Peas & Carrots" (page 29)	210	"Classic Spaghetti Bolognese" (page 35)	360	"Roasted Tomato Salsa with Cilantro" (page 37)	80	"Cowboy Cookies with Chia Seeds" (page 47)	210	1130
29	"Veggie Hummus Tortilla Rolls" (page 23)	190	"Beef & Sweet Potato Chili" (page 30)	330	"Hearty Chicken Vegetable Soup" (page 35)	250	"Avocado-Free Green Guacamole (Pea-Based)" (page 37)	90	"Coconut Mango Bites" (page 46)	180	1040
30	"Peanut Date Protein Bars" (page 23)	230	"Tuna & Brown Rice Salad with Peas & Carrots" (page 30)	300	"Beef and Barley Soup" (page 36)	300	"Carrot & Zucchini Chips" (page 38)	110	"Maple Pecan Clusters" (page 46)	230	1170

Weekly Freeze-Dried Shopping List for 2 people

WEEK 1 (Days 1-7)

Vegetables & Fruits

- ▶ Spinach – 7 cups (7 oz / 210 g)
- ▶ Mushrooms – 6 cups (18 oz / 510 g)
- ▶ Onion – 10 small (10 oz / 300 g)
- ▶ Apples – 4 medium (20 oz / 560 g)
- ▶ Sweet potatoes – 6 cups diced (36 oz / 1 kg)
- ▶ Bell peppers – 6 medium (18 oz / 510 g)
- ▶ Tomatoes – 7 cups diced (28 oz / 800 g)
- ▶ Carrots – 5 medium (15 oz / 425 g)
- ▶ Zucchini – 4 medium (16 oz / 450 g)
- ▶ Broccoli florets – 2 cups (6 oz / 170 g)
- ▶ Basil (fresh) – ½ cup (1 oz / 30 g)
- ▶ Parsley – ½ cup (1 oz / 30 g)
- ▶ Garlic cloves – 6 (1 oz / 30 g)

Proteins & Dairy

- ▶ Eggs – 32 large (64 oz / 1.8 kg)
- ▶ Chicken breast (cooked, diced/shredded) – 5 cups (30 oz / 850 g)
- ▶ Ground turkey – 3 cups (18 oz / 510 g)
- ▶ Beef (thin sliced/ground) – 5 cups (30 oz / 850 g)
- ▶ Cod fillet (cooked, flaked) – 3 cups (18 oz / 510 g)
- ▶ Shrimp (cooked, peeled) – 3 cups (18 oz / 510 g)
- ▶ Tuna (canned, drained) – 6 cans (48 oz / 1.36 kg)
- ▶ Mozzarella (shredded, low-fat) – 2 cups (8 oz / 230 g)
- ▶ Cheddar cheese (shredded) – 1 ½ cups (6 oz / 170 g)
- ▶ Yogurt (low-fat) – 2 cups (16 oz / 450 g)

Grains, Legumes & Nuts

- ▶ Rolled oats – 3 cups (9 oz / 255 g)
- ▶ Quinoa (cooked) – 4 cups (20 oz / 560 g)
- ▶ Barley (cooked) – 3 cups (18 oz / 510 g)
- ▶ Brown rice (cooked) – 2 cups (14 oz / 400 g)
- ▶ Farro (cooked) – 1 cup (3.5 oz / 100 g)
- ▶ Chickpeas (cooked) – 4 cups (32 oz / 900 g)
- ▶ Whole grain tortillas/flatbreads – 6 medium (12 oz / 340 g)
- ▶ Egg noodles – 4 cups (16 oz / 450 g)
- ▶ Buckwheat flour – ½ cup (2 oz / 60 g)
- ▶ Protein powder – ½ cup (2 oz / 60 g)
- ▶ Peanut butter – ½ cup (4 oz / 120 g)
- ▶ Almond butter – ¼ cup (2 oz / 60 g)

Baking, Oils & Misc

- ▶ Olive oil – 8 tbsp (4 oz / 120 ml)
- ▶ Maple syrup – 2 tbsp (1 oz / 30 ml)
- ▶ Cinnamon – 2 tsp (0.2 oz / 6 g)
- ▶ Vanilla extract – 2 tsp (0.3 oz / 10 ml)
- ▶ Cocoa powder – ¼ cup (1 oz / 30 g)
- ▶ Flour (for brownies) – 1 ½ cups (6 oz / 170 g)

Frozen / Sweet Items

- ▶ Blueberries – 2 cups (12 oz / 340 g)
- ▶ Grapes – 2 cups (12 oz / 340 g)
- ▶ Watermelon – 3 cups cubes (18 oz / 510 g)
- ▶ Pears – 2 medium (10 oz / 280 g)
- ▶ Mango – 1 cup cubes (6 oz / 170 g)
- ▶ Dates (pitted) – 1 cup (6 oz / 170 g)
- ▶ Pecans – 1 cup (4 oz / 115 g)
- ▶ Coconut flakes – 1 cup (3 oz / 85 g)
- ▶ Chia seeds – ¼ cup (2 oz / 60 g)

WEEK 2 (Days 8–14)

Vegetables & Fruits

- ▶ Mushrooms – 6 cups (18 oz / 510 g)
- ▶ Onions – 8 small (8 oz / 230 g)
- ▶ Sweet potatoes – 4 cups diced (24 oz / 680 g)
- ▶ Bell peppers – 6 medium (18 oz / 510 g)
- ▶ Tomatoes – 6 cups diced (24 oz / 680 g)
- ▶ Carrots – 5 medium (15 oz / 425 g)
- ▶ Zucchini – 4 medium (16 oz / 450 g)
- ▶ Broccoli florets – 2 cups (6 oz / 170 g)
- ▶ Basil – ½ cup (1 oz / 30 g)
- ▶ Garlic cloves – 5 (0.8 oz / 24 g)
- ▶ Spinach (cooked & raw) – 6 cups (6 oz / 170 g)

Proteins & Dairy

- ▶ Eggs – 28 large (56 oz / 1.6 kg)
- ▶ Chicken breast (cooked, shredded) – 5 cups (30 oz / 850 g)
- ▶ Ground turkey – 3 cups (18 oz / 510 g)
- ▶ Beef strips/ground – 5 cups (30 oz / 850 g)
- ▶ Pork (cooked, cubed) – 3 cups (18 oz / 510 g)
- ▶ Cod fillet (cooked, flaked) – 3 cups (18 oz / 510 g)
- ▶ Shrimp (cooked, peeled) – 3 cups (18 oz / 510 g)
- ▶ Tuna (canned, drained) – 5 cans (40 oz / 1.13 kg)
- ▶ Cheese (mozzarella, cheddar) – 2 cups (8 oz / 230 g)

Grains, Legumes & Nuts

- ▶ Whole wheat tortillas – 4 large (8 oz / 230 g)
- ▶ Brown rice (cooked) – 3 cups (21 oz / 600 g)
- ▶ Barley (cooked) – 2 cups (12 oz / 340 g)
- ▶ Quinoa (cooked) – 3 cups (15 oz / 425 g)
- ▶ Farro (cooked) – 1 cup (3.5 oz / 100 g)
- ▶ Chickpeas (cooked) – 3 cups (24 oz / 680 g)
- ▶ Egg noodles – 3 cups (12 oz / 340 g)
- ▶ Oat flour – 1 cup (4 oz / 115 g)
- ▶ Almond butter – ¼ cup (2 oz / 60 g)
- ▶ Peanut butter – ½ cup (4 oz / 120 g)

Baking, Oils & Misc

- ▶ Olive oil – 8 tbsp (4 oz / 120 ml)
- ▶ Cocoa powder – ¼ cup (1 oz / 30 g)
- ▶ Flour (brownies) – 1 cup (4 oz / 115 g)
- ▶ Spices (cinnamon, ginger, chili powder, basil, oregano) – ~6 tsp total (~15 g)

Fruits for Desserts

- ▶ Grapes – 2 cups (12 oz / 340 g)
- ▶ Pears – 2 medium (10 oz / 280 g)
- ▶ Bananas – 2 medium (8 oz / 230 g)
- ▶ Blueberries – 1 ½ cups (9 oz / 255 g)
- ▶ Strawberries – 1 ½ cups (9 oz / 255 g)
- ▶ Mango cubes – 1 cup (6 oz / 170 g)
- ▶ Dates (pitted) – ½ cup (3 oz / 85 g)
- ▶ Pecans – ½ cup (2 oz / 60 g)
- ▶ Coconut flakes – ½ cup (1.5 oz / 40 g)

WEEK 3 (Days 15-21)

Vegetables & Fruits

- ▶ Spinach – 7 cups (7 oz / 200 g)
- ▶ Mushrooms – 5 cups (15 oz / 425 g)
- ▶ Onion – 9 small (9 oz / 255 g)
- ▶ Tomatoes – 6 cups (24 oz / 680 g)
- ▶ Bell peppers – 5 medium (15 oz / 425 g)
- ▶ Zucchini – 4 medium (16 oz / 450 g)
- ▶ Broccoli – 2 cups (6 oz / 170 g)
- ▶ Carrots – 4 medium (12 oz / 340 g)
- ▶ Basil – ½ cup (1 oz / 30 g)
- ▶ Garlic cloves – 6 (1 oz / 30 g)

Proteins & Dairy

- ▶ Eggs – 28 large (56 oz / 1.6 kg)
- ▶ Chicken breast (cooked) – 5 cups (30 oz / 850 g)
- ▶ Ground turkey – 3 cups (18 oz / 510 g)
- ▶ Beef strips/ground – 5 cups (30 oz / 850 g)
- ▶ Pork (cooked, cubed) – 2 ½ cups (15 oz / 425 g)
- ▶ Cod fillet – 2 ½ cups (15 oz / 425 g)
- ▶ Shrimp (cooked) – 2 ½ cups (15 oz / 425 g)
- ▶ Tuna – 4 cans (32 oz / 900 g)
- ▶ Cheese (mozzarella, cheddar) – 2 cups (8 oz / 230 g)
- ▶ Yogurt (for bites) – 1 ½ cups (12 oz / 340 g)

Grains, Legumes & Nuts

- ▶ Whole wheat tortillas – 3 large (6 oz / 170 g)
- ▶ Brown rice – 2 ½ cups (17 oz / 480 g)
- ▶ Quinoa – 3 cups (15 oz / 425 g)

- ▶ Farro – 1 cup (3.5 oz / 100 g)
- ▶ Chickpeas – 2 ½ cups (20 oz / 570 g)
- ▶ Barley – 2 cups (12 oz / 340 g)
- ▶ Egg noodles – 3 cups (12 oz / 340 g)
- ▶ Buckwheat flour – ½ cup (2 oz / 60 g)
- ▶ Oats – 2 cups (6 oz / 170 g)
- ▶ Almond butter – ¼ cup (2 oz / 60 g)
- ▶ Peanut butter – ½ cup (4 oz / 120 g)

Baking, Oils & Misc

- ▶ Olive oil – 7 tbsp (3.5 oz / 105 ml)
- ▶ Maple syrup – 2 tbsp (1 oz / 30 ml)
- ▶ Cocoa powder – ¼ cup (1 oz / 30 g)
- ▶ Flour – 1 cup (4 oz / 115 g)
- ▶ Spices (oregano, basil, chili powder, garlic powder) – ~8 tsp (~20 g)

Fruits for Desserts

- ▶ Grapes – 2 cups (12 oz / 340 g)
- ▶ Pears – 2 medium (10 oz / 280 g)
- ▶ Bananas – 2 medium (8 oz / 230 g)
- ▶ Blueberries – 2 cups (12 oz / 340 g)
- ▶ Strawberries – 1 ½ cups (9 oz / 255 g)
- ▶ Mango cubes – 1 cup (6 oz / 170 g)
- ▶ Dates – ½ cup (3 oz / 85 g)
- ▶ Pecans – ½ cup (2 oz / 60 g)
- ▶ Coconut flakes – ½ cup (1.5 oz / 40 g)

WEEK 4 (Days 22-30)

Vegetables & Fruits

- ▶ Spinach – 6 cups (6 oz / 170 g)
- ▶ Mushrooms – 6 cups (18 oz / 510 g)
- ▶ Onions – 9 small (9 oz / 255 g)
- ▶ Tomatoes – 6 cups (24 oz / 680 g)
- ▶ Bell peppers – 6 medium (18 oz / 510 g)
- ▶ Carrots – 4 medium (12 oz / 340 g)
- ▶ Zucchini – 3 medium (12 oz / 340 g)
- ▶ Broccoli – 2 cups (6 oz / 170 g)
- ▶ Basil – ½ cup (1 oz / 30 g)
- ▶ Garlic cloves – 6 (1 oz / 30 g)

Proteins & Dairy

- ▶ Eggs – 30 large (60 oz / 1.7 kg)
- ▶ Chicken breast (cooked) – 6 cups (36 oz / 1 kg)
- ▶ Ground turkey – 3 cups (18 oz / 510 g)
- ▶ Beef strips/ground – 6 cups (36 oz / 1 kg)
- ▶ Pork (cooked, cubed) –
2 ½ cups (15 oz / 425 g)
- ▶ Cod fillet – 2 ½ cups (15 oz / 425 g)
- ▶ Shrimp (cooked) – 2 ½ cups (15 oz / 425 g)
- ▶ Tuna – 5 cans (40 oz / 1.13 kg)
- ▶ Cheese (mozzarella, cheddar) –
2 cups (8 oz / 230 g)
- ▶ Yogurt – 1 ½ cups (12 oz / 340 g)

Grains, Legumes & Nuts

- ▶ Whole wheat tortillas – 4 large (8 oz / 230 g)
- ▶ Brown rice – 3 cups (21 oz / 600 g)
- ▶ Quinoa – 3 cups (15 oz / 425 g)

- ▶ Farro – 1 cup (3.5 oz / 100 g)
- ▶ Chickpeas – 3 cups (24 oz / 680 g)
- ▶ Barley – 2 cups (12 oz / 340 g)
- ▶ Egg noodles – 3 cups (12 oz / 340 g)
- ▶ Oats – 2 cups (6 oz / 170 g)
- ▶ Almond butter – ¼ cup (2 oz / 60 g)
- ▶ Peanut butter – ½ cup (4 oz / 120 g)
- ▶ Protein powder – ½ cup (2 oz / 60 g)

Baking, Oils & Misc

- ▶ Olive oil – 8 tbsp (4 oz / 120 ml)
- ▶ Maple syrup – 2 tbsp (1 oz / 30 ml)
- ▶ Cocoa powder – ¼ cup (1 oz / 30 g)
- ▶ Flour – 1 cup (4 oz / 115 g)
- ▶ Spices (oregano, chili powder, basil, cinnamon) – ~6 tsp (~15 g)

Fruits for Desserts

- ▶ Grapes – 2 cups (12 oz / 340 g)
- ▶ Pears – 2 medium (10 oz / 280 g)
- ▶ Bananas – 2 medium (8 oz / 230 g)
- ▶ Blueberries – 2 cups (12 oz / 340 g)
- ▶ Strawberries – 2 cups (12 oz / 340 g)
- ▶ Mango cubes – 1 cup (6 oz / 170 g)
- ▶ Dates – ½ cup (3 oz / 85 g)
- ▶ Pecans – ½ cup (2 oz / 60 g)
- ▶ Coconut flakes – ½ cup (1.5 oz / 40 g)



Conclusion

The Endless Possibilities of Freeze Drying

From your backyard garden to your emergency pantry, your kids' lunchbox to a gourmet dinner party, freeze drying empowers you to take complete control of your food—how it's preserved, how it's enjoyed, and how it's shared. With this book, you've not only learned the science and techniques behind freeze drying, but also how to turn everyday ingredients into long-lasting meals, snacks, and even medicines.

You now know how to:

- Build light, nutritious meal kits for travel, hiking, and emergencies
- Make healthful snacks and pantry staples that retain nutrients for months or years
- Craft rehydration-friendly meals that taste fresh, not processed
- Freeze dry safe treats for pets and herbal preparations for wellness
- Transform preserved ingredients into stunning everyday recipes
- Use freeze drying to celebrate holidays, entertain guests, and create thoughtful gifts

What makes freeze drying truly **unique** is its ability to preserve food without sacrificing flavor, texture, or nutrition—while extending shelf life far beyond conventional methods. This isn't just food storage; it's a way to reduce waste, save money, protect your health, and embrace creativity in your kitchen and beyond.

So, whether you're a homesteader, an adventurer, a parent, or a prepper—this book equips you with everything you need to make freeze drying part of your lifestyle.

Freeze drying isn't the end of your food's journey—it's the beginning of what you can do with it. Let your freezer trays be your blank canvas and keep experimenting, mixing, gifting, and enjoying. The real magic starts now.

“Do what you can, with what you have, where you are.” — Theodore Roosevelt

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