

# Organic Hemp Protein Powder



## What is Organic Hemp Protein Powder?

Organic Hemp Protein Powder is a clean-label, plant-based protein ingredient manufactured by ORGANICWAY. Derived from non-GMO Cannabis sativa L. seeds grown on certified organic farms, our hemp protein undergoes mechanical cold-press extraction followed by air classification to produce fine, free-flowing powder in three protein specifications: 70%, 75%, and 80% protein content.

Unlike soy or dairy proteins, hemp protein contains no common food allergens and is naturally free from gluten, lactose, and cholesterol — making it a preferred protein source for clean-label, vegan, and specialty dietary formulations.

### Nutritional Profile

Hemp protein is distinguished by its balanced amino acid composition, particularly its above-average content of arginine and glutamic acid. It also provides a natural source of omega-3 (ALA) and omega-6 (LA) essential fatty acids in an optimal 1:3 ratio, fiber, and minerals including magnesium, zinc, and iron.

### Production & Quality Standards

Our manufacturing facility operates under FSSC 22000 food safety certification. Each production batch undergoes rigorous quality control including:

- Protein content verification (AOAC 991.20)
- Microbiological testing (total plate count, E. coli, Salmonella)
- Heavy metal screening (lead, arsenic, cadmium, mercury)

- THC content testing (<5 mg/kg — well below regulatory limits)
- Moisture and ash content analysis

**Certifications Available**

We support buyer compliance requirements with the following certifications available for this product: USDA Organic, EU Organic, Non-GMO Project Verified, Kosher (OU), Halal (IFANCA), FSSC 22000, and FPA (FSSC 22000 compliant).

**Minimum Order Quantity**

MOQ: 20 kg for sample and trial orders. Bulk pricing available for quantities of 200 kg and above.

**TECHNICAL SPECIFICATIONS**

**Product Grades Available**

Parameter	Hemp Protein 80%	Hemp Protein 75%	Hemp Protein 70%
Protein Content (db)	≥80%	≥75%	≥70%
Moisture	≤8.0%	≤8.0%	≤8.0%
Ash	≤6.0%	≤6.0%	≤7.0%
Fat	≤12.0%	≤10.0%	≤10.0%
Fiber	≤10.0%	≤10.0%	≤12.0%
Particle Size	≥95% through 80 mesh	≥95% through 80 mesh	≥95% through 80 mesh
Color	Light green to cream	Light green to cream	Light green to cream
Odor	Characteristic, mild nutty	Characteristic, mild nutty	Characteristic, mild nutty

**Microbiological Standards**

Test	Limit
Total Plate Count	≤50,000 CFU/g
Yeast & Mold	≤500 CFU/g
E. coli	Negative (<10 CFU/g)
Salmonella	Negative / 25g
Staphylococcus	≤100 CFU/g

**Heavy Metal Standards**

Test	Limit
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Lead (Pb)	≤0.5 mg/kg
Arsenic (As)	≤0.5 mg/kg
Cadmium (Cd)	≤0.1 mg/kg
Mercury (Hg)	≤0.1 mg/kg

## THC Content

≤5 mg/kg (below EU and most international regulatory thresholds)

## Solubility

pH 7.0 solubility: ≥60% (dispersible; not fully water-soluble)

## Testing Methods

Protein: AOAC 991.20 / ISO 16634; Moisture: AOAC 925.09; Ash: AOAC 942.05;

Heavy Metals: ICP-OES per AOAC 2015.01

## CERTIFICATIONS

Certification	Status	Issuing Body
USDA Organic	Available	USDA-accredited certifier
EU Organic	Available	EU-authorized certifier
Non-GMO Project Verified	Available	Non-GMO Project
Kosher ( Pareve )	Available	Orthodox Union (OU)
Halal	Available	IFANCA
FSSC 22000	Available	Accredited certification body
FPA (Food Processing Aid)	Available	Third-party auditor

COA (Certificate of Analysis) and C/A (Certificate of Conformance) provided with each batch. SDS and TDS available on request.

## APPLICATIONS & USAGE GUIDELINES

### Recommended Application Sectors

Application	Recommended Dosage	Notes
Protein Bars & Energy Balls	15–30%	Improves texture and nutrition density

Application	Recommended Dosage	Notes
Nutritional Protein Shakes	10–20%	Blends well with liquid; mild nutty flavor
Functional Beverages	5–15%	Use fine-mesh grade for smooth texture
Plant-Based Meat Analogs	5–15%	Enhances protein content; binds well
Breakfast Cereals & Snacks	5–10%	Heat-stable at recommended levels
Dietary Supplements (Powder)	20–50%	Standard format; high protein claim eligible
Baking Mixes	5–15%	Partial replacement for flour; adds nutrition
Pet Food Formulations	5–15%	palatable; allergen-friendly protein source

## Formulation Notes

- Hemp protein has a **mild nutty, earthy flavor** — pair with vanilla, chocolate, fruit, or caramel profiles for consumer products.
- Use a **high-shear mixer** for dispersion in beverages to minimize clumping.
- pH-sensitive: best performance in **neutral to slightly acidic** formulations (pH 4.0–7.0). Not recommended for high-temperature extrusion above 180°C for extended periods.
- Natural darkening may occur over time due to chlorophyll content — consider opaque or UV-protective packaging.

## FAQ

### Q1: Does hemp protein contain THC and will it show up on a drug test?

**A:** Our organic hemp protein powder is tested to contain less than 5 mg/kg THC, well below the EU regulatory limit of 0.2 mg/kg and the US Farm Bill threshold of 0.3% THC by dry weight. At this residual level, consumption of hemp protein in normal dietary amounts is not expected to cause a positive result on standard drug tests. However, we recommend that manufacturers conduct their own risk assessment and consider their end market’s specific regulations.

### Q2: What is the difference between hemp protein isolate and hemp protein concentrate?

**A:** Hemp protein concentrate typically contains 50–70% protein by dry weight, retaining more fiber and fat. Hemp protein isolate goes through additional processing to reach 80%+ protein with lower carbohydrate and fat content. Our product line offers both: 70% concentrate grade and 80% isolate grade. Choose 80% grade when maximizing protein density per serving is the priority; choose 70% grade

when fiber content and a more whole-food profile are desired.

### **Q3: How do you manufacture your hemp protein — solvent extraction or mechanical?**

**A:** We use **mechanical cold-press extraction followed by air classification**. No hexane or other chemical solvents are used in our process. This mechanical method preserves the natural nutritional profile of hemp seed, including omega fatty acids and phytonutrients, while achieving consistent protein specifications. This aligns with clean-label manufacturing requirements.

### **Q4: Is your hemp protein allergen-friendly?**

**A:** Yes. Hemp is not classified as a “Big 8” food allergen (milk, eggs, fish, shellfish, tree nuts, peanuts, wheat, soybeans) under FDA or EU Regulation EU 1169/2011. Our hemp protein is also naturally gluten-free and lactose-free, making it suitable for hypoallergenic, vegan, and specialty dietary formulations. It is produced in a facility that also processes soy and tree nuts — please request our allergen statement for full cross-contamination details.

### **Q5: What is the minimum order quantity (MOQ) and lead time?**

**A:** Our MOQ is **20 kg** for sample and trial orders, enabling food manufacturers and brand owners to conduct product development and market testing before committing to large volumes. For commercial orders, our standard lead time is **14-21 days** from order confirmation, depending on production scheduling and shipping destination. Expedited production may be available upon request — please contact our sales team for lead time confirmation.

### **Q6: How does hemp protein compare to pea protein and rice protein?**

**A:** Hemp protein offers a more complete amino acid profile than rice protein (particularly in lysine and methionine), and comparable digestibility to pea protein. Its distinct advantage lies in its natural omega-3/omega-6 content, fiber, and mild flavor that blends well in nutritional beverages. See our comparison guide for a detailed breakdown by amino acid, functional properties, and application suitability.

## **Packing & STORAGE**



## Packaging Options

Package Size	Packaging Material	MOQ
1 kg	Aluminum foil pouch	Trial
5 kg	Aluminum foil pouch	Trial
20 kg	Kraft paper bag + PE liner	Standard
25 kg	Kraft paper bag + PE liner	Standard
Custom	Bulk bag (25 kg or 500 kg)	Commercial

Custom packaging (private label, branded bags, specific bag sizes) available for orders  $\geq 500$  kg.

## Storage Conditions

- **Storage temperature:** 0–25°C (cool, dry place)
- **Relative humidity:**  $\leq 60\%$  RH
- **Avoid:** Direct sunlight, moisture, strong odors
- **Shelf life:** 24 months from manufacturing date when stored as directed

## Handling

- Keep sealed until use
- Use clean, dry scoops or handling equipment
- Avoid exposure to air and humidity during processing
- Transfer to airtight containers after opening original packaging

## Shipping

- Available for international shipping (air freight and sea freight)
- Temperature-controlled shipping available for long transit or hot climates

- All shipments include COA, bill of lading, and commercial invoice

For more information, please visit our website:

<https://www.organic-way.com/products/organic-hemp-protein/>