



**AFS FOR-03-006  
(082-B)**



## **SPECIFICATION SHEET**

Product: 75% Organic Hemp Seed Protein  
Product Code: HPHP

**Ingredient Composition:**  
100% organic hemp seeds

**Ingredient name:**  
Hemp protein derived from organic hemp hearts

	<b>Specification</b>	<b>Method ID</b>
Appearance	Off White Powder	visual
Identification	Positive	FT-NIR
Odor	Bland, slight Chalky, earthy	Organoleptic
Flavor	Neutral	Sensory
Moisture	< 8.0%	FCC (Karl Fischer)
Protein Content (as is)	75% +/- 5%	DUMAS
Lead	< 0.25 ppm	ICP-MS AOAC 2013.06
Arsenic	< 0.15 ppm	ICP-MS AOAC 2013.06
Cadmium	< 2.5 ppm	ICP-MS AOAC 2013.06
Mercury	< 1.50 ppm	ICP-MS AOAC 2013.06
Heavy Metals	< 10 ppm	ICP-MS AOAC 2013.06
<i>E. coli</i>	negative / 25 g	USP <62>
Total Coliform	< 3 MPN/g	AOAC 996.24, MPN, FDA BAM
<i>Salmonella</i>	negative / 375 g	USP <62>
<i>Staphylococcus</i>	negative / 25 g	USP <62>
Yeast & Mold	< 1000 cfu /g	USP <61>
Aerobic Total Plate Count	< 20,000 cfu/g	AOAC 990.12, FDA BAM
Tetrahydrocannabinol (Delta-9-THC + THCA)	<4 ppm	AFVAN-SLMR-0074 (LCMSMS)
Cannabidiol (CBDA + CBD)	<75 ppm	AFVAN-SLMR-0074 (LCMSMS)

Meets the microbe requirements of the Food Chemical Codex. / United States Pharmacopoeia.

(1) Internal AFS SOP-04-008, Ref for 0.50 w/w% solution

HPHP™ is an Allergen Free Product as defined by the Food Allergy Labelling and Consumer Protection Act of 2004. Product contains no additives, carriers and excipients.

### Main characteristics

HPHP<sup>TM</sup> is odorless and opaque in solution.

Solubility in water : ~ 20.5-23.5

pH : 6.4

aw : <0.15

There is no evidence to demonstrate or suggest a hazard when employed at levels that are currently in use.

### Allergen

The AFS HHP<sup>TM</sup> Protein is **free** from the following known allergens:

Milk	Eggs	Gluten
Fish	Shellfish / Shrimp	Sesame
Nuts	Wheat	
Soybeans	Lactose	

For the full list of free allergens in the AFS HHP<sup>TM</sup> please refer to AFS HHP<sup>TM</sup> Allergen Statement.

### Aflatoxin:

- Aflatoxin B1: < 2 ppb
- Aflatoxin B2, G1, G2 or sum of aflatoxins: < 3-5 ppb
- Ochratoxin A or B: < 10 ppb
- Fumonisin: < 100 ppb

**Pesticide Screens:** Comply with the USP34-NF29:561 requirements

### Packing

Available in 20 kg food grade plastic inner, cardboard outer pack or 400 kg carton.

### Storage

Hydroscopic. Store in well-closed containers in a dry place at ambient temperature (15-20°C). Material should be re-tested after storage for one year.

### Sterilization

Non-contact steam heat in drying operation.

### Applications

Food & Nutritional Supplements

HPHP<sup>TM</sup> is used as a nutritional supplement in powder form. As a protein source in food and beverage applications.

Last Revision Date: May 22, 2022

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**Internal Release Document: Applied Food Sciences Inc.**

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*Blake Dixon*  
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