
Specification & Information Sheet

Product Information

Product:	Brown Rice Protein
Code:	AC07002
Description:	As an important cereal crop that feeds more than half of the population, and has been cultivated in China for 9000 years, Brown rice is an excellent source of vegan, hypo-allergenic protein. Extracted from natural rice, Brown Rice protein is exceptionally high in vital natural nutrients. With higher NPU (net protein utilization), BV (biological value) and balance amino acid profile, healthy and nutritional Brown Rice Protein is a perfect ingredient for creating innovative & delicate food products.
Characteristics:	100% Natural product ISO9000/HACCP certified plant GMO Free/ Melamine free Gluten free/Allergen Free Better digestion and easy absorption Low heavy metals and microorganism
Application:	Baking foods & Meats Dairy Products-Yogurt, ice cream, cream cheese Sports nutrition-Energy, Bars, Protein supplements Beverages-Rice Milk Baby foods

Specification Sheet

Organoleptic evaluation	Description
Appearance	Light yellow powder
Taste	Typical

Physical / Chemical Measurements	Standards
Protein content (dry basis)	≥ 80%
Mesh size	100% pass through 300mesh
Fat content (dry basis)	≤ 5.0%
Moisture content	≤ 7.0%
Ash (dry basis)	≤ 5.0%

Microbiological Measurements	Standards
Total plate count	≤ 5000 cfu/g
Salmonella	Negative in 25g
E. coli	Negative in 1g
Enterobacteria (BTGN)	≤ 100 cfu/g

Heavy Metals: Indicative Values	Standards
Lead (Pb)	≤ 1 ppm
Mercury (Hg)	≤ 1 ppm
Cadmium (Cd)	≤ 0.6 ppm
Arsenic (As)	≤ 0.2 ppm

Mycotoxins: Indicative Values	Standards
Aflatoxin B1	< 2 ppb
Aflatoxin B1+B2+G1+G2	< 4 ppb

Information Sheet

Suggested Applications:

Our brown rice protein is soluble in water, low-allergenic and with a very good amino acid profile, close to that of mother's milk.

It has a high nutritional value, used in food applications, more particularly in energy bars, biscuit etc.

Amino Acids	Typical	Unit	Frequency	Method
Alanin	5.68	% on protein	2/year	Ex. Acc. Anal
Arginin	8.20	% on protein	2/year	Ex. Acc. Anal
Aspartate	9.10	% on protein	2/year	Ex. Acc. Anal
Cystein	1.95	% on protein	2/year	Ex. Acc. Anal
Glutamate	17.95	% on protein	2/year	Ex. Acc. Anal
Glycin	4.30	% on protein	2/year	Ex. Acc. Anal
Histidin	2.37	% on protein	2/year	Ex. Acc. Anal
Isoleucin	4.21	% on protein	2/year	Ex. Acc. Anal
Leucin	8.50	% on protein	2/year	Ex. Acc. Anal
Lycin	3.60	% on protein	2/year	Ex. Acc. Anal
Methionin	3.90	% on protein	2/year	Ex. Acc. Anal
Phenylalanin	5.10	% on protein	2/year	Ex. Acc. Anal
Prolin	4.45	% on protein	2/year	Ex. Acc. Anal

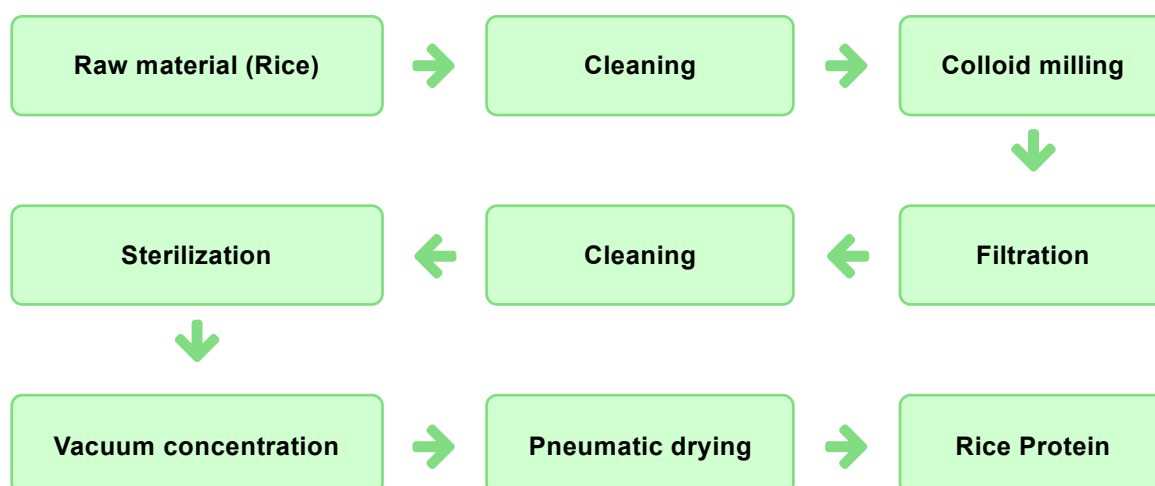
Amino Acids	Typical	Unit	Frequency	Method
Serin	5.32	% on protein	2/year	Ex. Acc. Anal
Threonin	3.70	% on protein	2/year	Ex. Acc. Anal
Tryptophane	0.92	% on protein	2/year	Ex. Acc. Anal
Tyrosin	5.45	% on protein	2/year	Ex. Acc. Anal
Valin	6.10	% on protein	2/year	Ex. Acc. Anal

Nutrition Value Sheet

Nutritional Information	100 g	
Caloric content	384	kcal
Total fat	4.8	g
Saturated fat	2.5	g
Cholesterol	0	mg
Total carbohydrates	15	g
Diet fiber	3.1	g
Sugar	0	g
Other carbohydrates	0.7	g
Protein	80.8	g
Calcium	5.5	mg
Sodium	190	mg
Iron	1.9	mg
Phosphorus	500	mg

Nutritional Information		100 g
Potassium	8.1	mg
Magnesium	0.4	mg

Flow chart



Material Safety Data Sheet

General Information

Company: Protein Trade International
Address: Copenhagen, Denmark
Website: <http://www.proteintrade.com>
E-mail: support@proteintrade.com

1. Product Identification

Product name: Brown Rice Protein
Application: Food Additive

2. Hazardous Ingredients and Exposure Limits

Potential Acute Health Effects: Slightly hazard in case of eye contact (irritant) or inhalation.
Non irritant for skin. Non-hazardous in case of ingestion.

Potential Chronic Health Effects: Not available.

CARCINOGENIC Effects: Not available.

Mutagenic Effects: Not available.

TERATOGENIC Effects: Not available.

DEVELOPMENT TOXICITY: Not available.

Repeated or prolonged exposure is not known or aggravates medical condition.

3. Physical Properties

Composition: 80% Protein
5% Fat

Appearance:	Light yellow powder
Odor & Taste:	Not applicable
Boiling point:	Not applicable
Vapor pressure:	Not applicable
Liquid solubility:	Soluble in water
Melting point:	Not applicable
Octanol / Water partition coefficient:	Not applicable
Saturation in air (by volume):	Not applicable
Evaporation rate:	Not applicable
Percent volatile:	Not applicable

4. Fire and Explosion Hazard Data

Flash point:	Not applicable
Auto ignition temperature:	Not applicable
Hazardous combustion products:	Not applicable
Flammable limits:	Not applicable

Fire fighting and media instructions:

Small fires: Use dry chemical powder.

Large fires: Use water spray, fog or foam. Do not use water.

Special remarks on the fire hazards: As with most organic solids, fire is possible at elevated temperatures.

Special remarks on explosion hazards: Material in powder form, capable of creating a dust explosion.

5. Stability and Reactivity Data

Stability:	The product is stable
Instability temperature:	Not available
Condition of instability:	Incompatible material, excess heat
Incompatibility with various substances:	Not available
Corrosivity:	Non corrosive in presence of glass
Special remark on the reactivity:	No information available at this time
Special remark on corrosivity:	Not available
Solubility:	Not available

6. Summary of Toxicity and Health Hazard Data

Sign & symptoms of overexposure in the workplace:	Irritation
Medical conditions generally recognized as being aggravated by exposure:	None
Primary routes of exposure / entry:	None
Cancer information:	None
Reported human effects:	No adverse human effects known
Reported animal effects:	No significant hazards in animal tests
Other:	None

7. Emergency First Aid Procedures

Eyes:	Rinse with water for at least 15 minutes. If irritation occurs & persists, obtain medical
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attention.

Skin: Wash with water

Inhalation: If feeling of discomfort occurs, move to a well ventilated area

Ingestion: Wash mouth with plenty of water

8. Exposure Control Methods

Engineering control: Ventilation devices in workplaces recommended

Work practice control: Prevent dusting motion

Personal protection equipment: Compatible chemical resistant.

9. Spil or Leak Procedures

a. Steps to be taken in case material is released or spilled: Vacuum cleanup or gather in a plastic pick.

b. Water disposal: Dissolve/mix material with a combustible solvent & burn in a chemical incinerator equipped with an afterburner & scrubber following local, state & federal regulations.

10. Disposal Considerations

Waste disposal: Waste must be disposed of in accordance with local, state & federal environmental control regulation.

11. Storage and Handling

Preserve in tight containers at controlled room temperature.

Recommended limit: 1 year.