

Hydrolyzed Rice Peptide

Liquid/Powder

Peptide for people sensitive to Gluten/ Soy/ Dairy

Peptides have better absorption than proteins because they are smaller chains of amino acids, allowing them to be absorbed more quickly and efficiently by the body. This makes pre-digested peptides ideal for situations requiring fast nutrient delivery, such as post-workout recovery or after any high energy work. They may provide pro-aging support, anti-inflammatory, or muscle-building properties.

Hydrolyzed rice proteins (peptides) derived from *Oryza Sativa* is a premium, plant-derived protein intended for application in food and dietary supplements. This is a Superior protein source where "Bigger Protein Molecules" are broken down enzymatically in much smaller size "Peptides" of the size range 0.5kDa to 42kDa, thus helps in "Enhanced Bio-absorption / Bio-Availability" than regular Rice Protein Powder & also "100% Water solubility" which makes it very easy in application & all sorts of fortification in fortified foods/Beverages/Health Drinks/Fruit Juices/Milk etc. Their bioavailability also allows them to serve as a functional ingredient for enhancing the nutritional content of different food products. This vegan peptide source is a good substitute for animal-based proteins because of its rich amino acid profile and high digestibility.

HEALTH BENEFITS

<p>Easily absorbable protein: The hydrolysis method reduces rice protein into smaller, more readily absorbed peptides and amino acids. It is a great source of protein for muscle development and recovery, particularly for individuals with digestive sensitivities.</p>	<p>Allergy-safe: Hydrolyzed rice protein serves as a frequent component in infant formulas, providing a hypoallergenic option for infants with sensitivities to cow's milk.</p>	<p>Antioxidant characteristics: Studies show that hydrolyzed rice protein possesses antioxidant properties, aiding in the protection of cells from free radical damage.</p>	<p>Plant-Based Nutrition: It acts as a significant source of plant-based protein for those adhering to vegan or vegetarian, it provides a complete amino acid profile to meet complete nutritional requirements.</p>
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Gluten Free

Hypo-Allergenic
(Great option for people sensitive to Dairy & Soya)

Super Enhanced Digestibility (> 90%) & hence Excellent Bio-Absorption

Key amino acid concentrate & their benefits

S.No	Amino Acid	Actual amino acid content as per the NABL accredited lab Rice Peptide (g/100g)	Health benefits
1.	Alanine	3.07	<ul style="list-style-type: none"> Improved athletic performance It aids in building and repairing muscle tissue Acting as an energy source for muscles It helps maintain normal cholesterol levels and can protect cells from oxidative damage. It assists the liver in detoxifying the blood
2.	Cysteine+Cystine	1.06	<ul style="list-style-type: none"> Cysteine is the precursors to the powerful antioxidant glutathione (GSH). Helps the body fight chronic inflammation and oxidative stress Disulfide bonds formed by two cysteine molecules provide strength, rigidity, and structural stability to skin tissues
3.	Glutamic Acid	10.4	<ul style="list-style-type: none"> Glutamic acid is crucial for muscle protein synthesis, helping to build and repair muscle tissue, especially after exercise. Glutamic acid may have an independent effect on lowering blood pressure. Glutamic acid supporting the function of immune cells.
4.	Glycine	2.54	<ul style="list-style-type: none"> It protects cells against oxidative damage caused by free radicals. Reduced stress and anxiety. Improved sleep quality Glycine plays a vital role for repairing and regenerating body tissues
5.	Leucine	3.74	<ul style="list-style-type: none"> It can improve recovery and enhance endurance performance, especially when combined with resistance training. Consuming leucine can help increase lean muscle mass and strength. Helping with blood sugar control



PRODUCT AVAILABILITY/ PACKAGING/STORAGE/ SHELF LIFE

Storage Condition:

Store in cool and dry place in original packing. Avoid exposure to extreme conditions.

Product Availability:

Product available in both powder and liquid form

Packaging:

Powder : In 25 kg Board/ PVC Drums with Liners.
Liquid : In 25 liter HDPE/ Aluminium Cans.

Shelf Life:

Powder : 36 Months from the Date of Manufacturing.
Liquid : 18 months in company sealed Jars, once opened must be used Within 5-7 days.

Note : Please ensure that the Capping is air tight for each can immediately post usage.

APPLICATION DETAILS

S.No.	Various Applications	Main Claims Markers for Recommended Applications	Recommended Dosage / Bulk Batch (For the Manufacturer of a Consumer brand)	Effective Dosage / Serving (For the Ultimate Consumer)	Recommended Dosage / Day		
					For Adults	For Teenagers	For Kids (5-10 yrs)
1.	Milk Fortification*	Protein (In the Form Peptides) & Essential Amino Acids	Based on the Min Protein content in Powder form & also in Liquid form, the formulator can decide on the final dosage per batch keeping in tandem with the desired protein content per consumer pack.	Considering 100ml of these drinks that a consumer takes (for the Age group as mentioned), then the same shall have these A Min. Peptide Concentration ranging from 15gms to 40gms of Powder form & 100-200ml of Liquid form (for Age wise break up pl. see the column in Right) - Ref : for non-pediatric populations (0.8 g/kg bw/d)	40-50 Gms/Day	40-50 Gms/Day	15-19 Gms/Day
2.	Fruit Juice Fortification						
3.	Plant Based Health Drinks						
4.	Fortification of Protein Drinks with Plant based Nutrition						
5.	Fortification of Child Focused Drinks to counter Child Malnutrition						
6.	For Happy Morning Tea/ Coffee & / or Morning Milk or Smoothies						
7.	For Plant based energy Drinks / Drinks for Athletes						

The American College of Sports Medicine (ACSM), physically active individuals should consume between 1.2 and 2.0 g/kg body weight per day to support metabolic adaptation, repair, remodeling, and protein turnover.

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This is a Nutritional Supplement and not a replacement for medical treatment.



NUTRITIONAL VALUE (Rice Powder)

Sensory Data		Nutritional Data	
Appearance	Powder	Protein	50-55% by wt.
Colour	Creamish	Ash Content	0.5-0.7 % by wt.
Flavour and Odour	Characteristic	Moisture	2.5-4.0 % by wt.
Taste	Characteristic	Fat content	0.2-0.4 % by wt.
Amino Acid Profile		Dietary Fiber	3.0-4.0 % by wt.
Alanine	2-4 g/100g	Insoluble Dietary Fiber	2.0-3.0 % by wt.
Arginine	0.5-0.7 g/100g	Soluble Dietary Fiber	0.4-0.8 % by wt.
Aspartic Acid	4-5 g/100g		
Cysteine+Cystine	1-2 g/100g		
Glutamic Acid	9-11 g/100g		
Glycine	2-3 g/100g		
Histidine	0.8-1 g/100g		
Isoleucine	1-3 g/100g		
Leucine	3-5 g/100g		
Lysine	0.7-0.9 g/100g		
Methionine	1-2 g/100g		
Phenylalanine	2-3 g/100g		
Proline	2-3 g/100g		
Methionine	1-2 g/100g		
Threonine	0.5-0.7 g/100g		
Tyrosine	2-3 g/100g		
Valine	2-3 g/100g		

NUTRITIONAL VALUE (Rice Liquid)

Sensory Data		Nutritional Data	
Appearance	Liquid	Protein	23-27 g/100ml
Colour	Brown	Ash Content	8-10 g/100ml
Flavour and Odour	Characteristic	Moisture	50-51 g/100ml
Amino Acid Profile		Carbohydrate	14-15 g/100ml
Alanine	2-4 g/100g	Soluble Dietary Fiber	0.4-0.5 g/100ml
Arginine	0.5-0.7 g/100g		
Aspartic Acid	4-5 g/100g		
Cysteine+Cystine	1-2 g/100g		
Glutamic Acid	9-11 g/100g		
Glycine	2-3 g/100g		
Histidine	0.8-1 g/100g		
Isoleucine	1-3 g/100g		
Leucine	3-5 g/100g		
Lysine	0.7-0.9 g/100g		
Methionine	1-2 g/100g		
Phenylalanine	2-3 g/100g		
Proline	2-3 g/100g		
Serine	1-2 g/100g		
Threonine	0.5-0.7 g/100g		
Tyrosine	2-3 g/100g		
Valine	2-3 g/100g		

SCIENTIFIC STUDY REFERENCES

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