

CERTIFICATE OF ANALYSIS

Parameter	Specification
Name of Product -	Rice Protein Meal(Brown)
Protein -	60-65%
Moisture -	8 - 12 %
Fat/Oil -	3-5 %
Fiber-	4-7 %
Colour -	Light Brown/ Brown
Appearance-	Free Flowing Powder
Packaging	PP Bag (Approx. 50 kg)

Storage: To be stored in closed sheds

Shelf life: 15 months

Application: Excellent source of protein for livestock (Poultry, Cattle, Swine) and aqua rations.

Rice Protein Meal

1. Product Introduction

Rice protein meal is mainly used to feed the animals. The rice protein meal which is the byproduct of rice starch is rich in nutrition. Rice protein meal plays an important role in helping animals grow and against illness. As an good additive to animal fodder, rice protein meal makes the animals grow stronger and eat more.

Especially, we can make sure that the rice protein meal is a necessary ingredient for animal fodder. So we should make best use of the rice protein meal. For one thing, rice protein meal can release the burden of the limited marine source. For another rice protein meal can improve feed energy, reduce feed cost and promote livestock's growing. Maybe that's why it is paid more attention.

2. Product Feature And Application

Widely used as the feed of livestock. This rice protein promotes the growth of livestock, improves energy of the feed, saves protein, helps the animals against diseases and reduces cost as well. Feed grade rice protein is essential in the feed industry and stockbreeding for cattle, chicken, aquatic livestock, pig, duck, etc.

Feed grade rice protein is rich in protein generated by biological fermentation process. For the livestock it proves to be a great source of protein and being cost-effective it can be commonly used for animals. Rice protein feed grade comes with lots of benefits, apart from being a great source of protein for animals.

3. Production Details

It is easy to digest and its palatability enhances food in-taking of animals. It is important to have a balance of amino acids in all livestock and feed grade rice protein helps in that. It also has a significant role in increasing feed effectiveness and promoting growth of animals. Above all it is a great cut cost on feed and you can replace a portion of fish meal, soybean meal or whey powder with rice protein feed grade.

Parameter	Rice Protein Meal
SOURCE/BASE	Rice/Plant Based Protein
COST	Cheaper than Fish Meal
QUALITY	Always Good
DIGESTIBILITY	More than Fish Meal
SIDE EFFECTS	Not Possible
CHEMICAL ANALYSIS	
Crude Protein	60% Min
Moisture	8% Min
Insoluble Ash in Acid	2.20% Max
Fat	3.27% Max
Digestibility	97% to 99% Fit for Animal Consumption and free from all harmful germs
MICROBIOLOGY	
E-Coli (gram)	Absent
Salmonella	Absent Free From Antibiotics Nitrofurans, Salmonella & Enterobacterias, Aflatoxin, Chloramphenicol, Malamine and Genetically Modified Organism (GMO)
PHYSICAL PROPERTIES	
Colour	white Brown
Texture	Powder free from Lumps and other extraneous matter
Flavor	Characteristics Rice Aroma and free from musty flavour, bitter or rancid taste.
Smell	Natural Aromatic
Appearance	A fine off white Brown Powder free from Lumps and other extraneous matter
CHARACTERISTICS	
Species Used (Raw Material)	Rice
Origin	Indian
Odor	Pleasant
Grade	Feed

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Table : Composition of amino acids in Rice Protein 60%

Amino Acids	%age
Lysine -	2.59
Arginine -	3.89
Methionine -	2.55
Cystine -	1.62
Threonine -	2.02
Leucine -	4.38
Isoleucine -	2.28
Valine -	2.85
Phenylalanine -	3.21
Tyrosine -	2.75
Histidine -	1.46
Glycine -	1.91
Alanine -	3.23
Glutamic acid -	9.07
Aspartic acid -	6.44
Serine -	2.54
Proline -	2.46

ADVANTAGE OF RICE PROTEIN MEAL

- **High Protein**
- **Cheaper than Fish Meal**
- **Gluten Free**
- **High Digestibility than Fish Meal**
- **No Side Effects**
- **Best Alternate than others protein sources**

Rice is not only very nutritious but also hypo-allergenic due to the lack of gluten. The protein fraction is characterised by excellent digestibility (98%) and a very complete, balanced amino acid profile. Rice oil is recognised for its high levels of unsaturated fatty acids and contains high levels of vitamin E, the well-known natural anti-oxidant.

Rice is naturally enriched in a number of sometimes unknown nutritious factors and benefits from the absence of gluten or other allergenic components. This makes it the ideal cereal for sensitive species and animal categories.

Rice Proteins is an all-natural, gluten-free, non-GMO, hypoallergenic ingredient with an excellent amino acid profile and digestibility. Having a high protein content (>79% ds) is a concentrated source of rice proteins, higher than almost any other plant-based protein source. It is a good protein source for mainstream, as well as gluten-free products.

Rice Protein for Animal/Poultry/Aquatic Feeds

Compared to other animal categories, rice already has an excellent reputation in Animal/Poultry/Aquatic Feed applications.

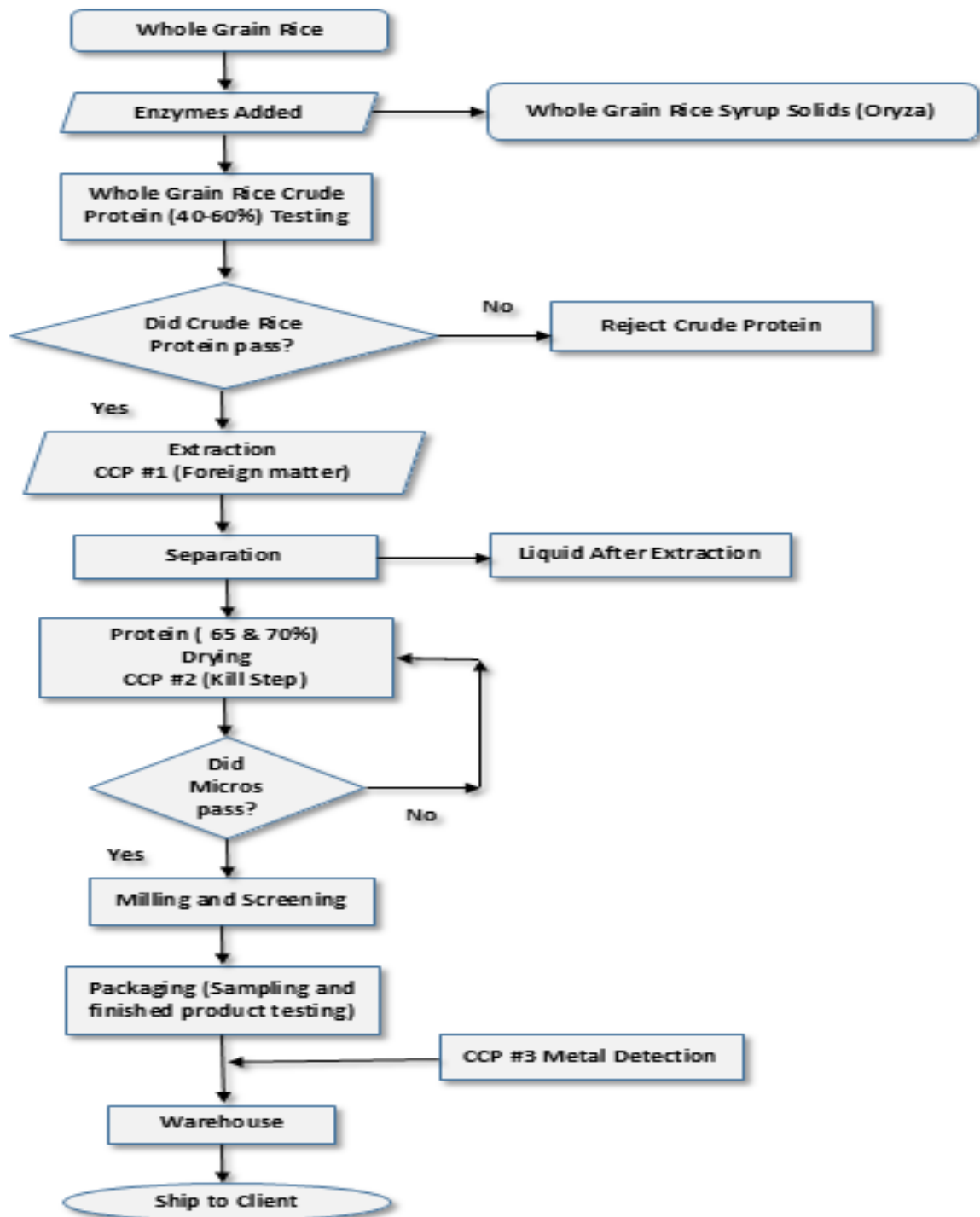
The typical taste and excellent digestibility of these products makes rice an ingredient of choice for a number of premium products. Rice products contain no gluten, and the high safety of this food-grade cereal meets the highest standard qualities of this particular industry. Rice protein is, because of its high biological value, also often used in Animal/Poultry/Aquatic Feed as a source of protein to replace animal protein such as Fish Meal. Stabilised rice bran including high levels of rice oil is also an interesting ingredient for Animal/Poultry/Aquatic Feed.

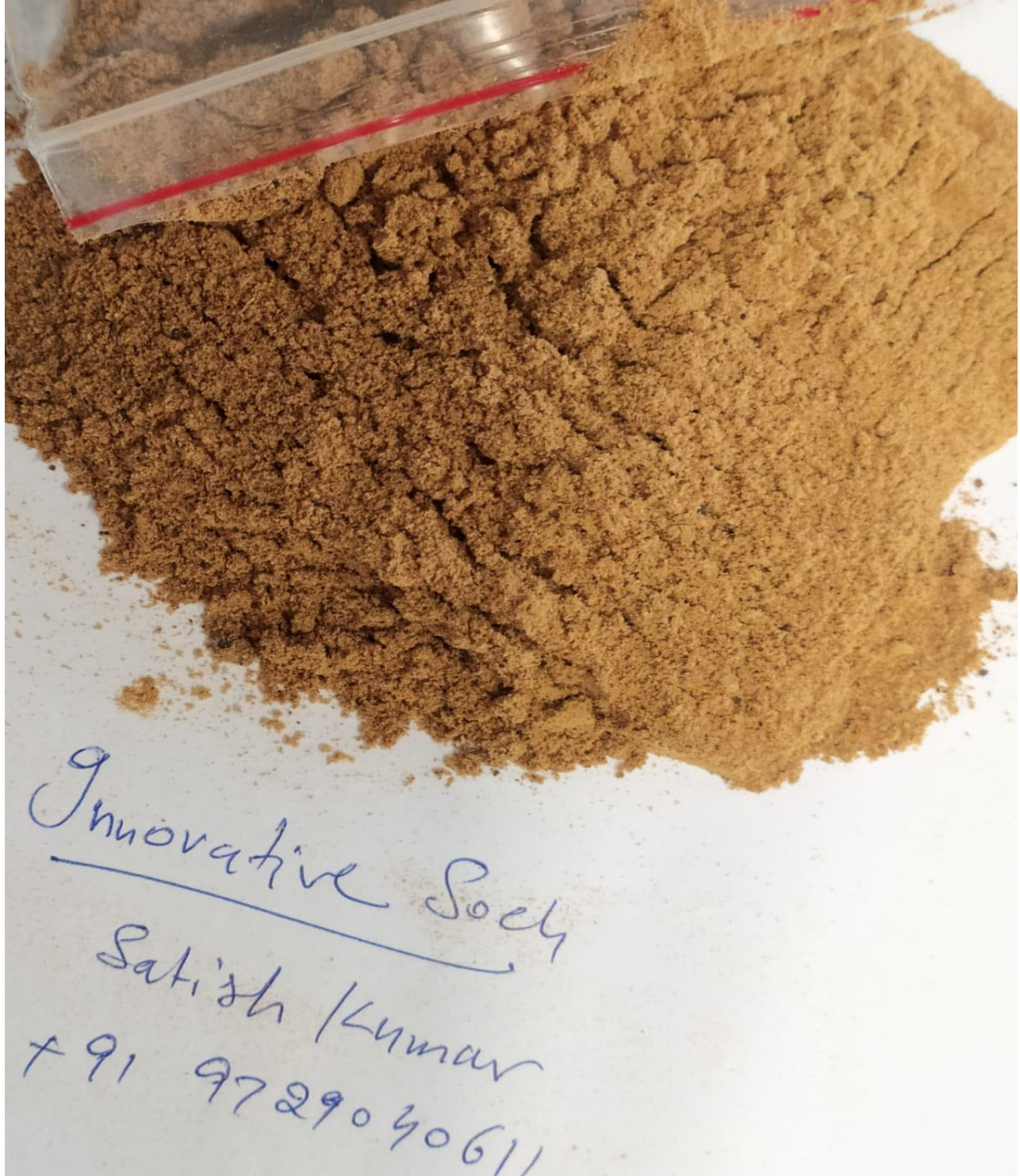
The high levels of vitamins and anti-oxidants stimulate good health and results in a better general condition of the animal. Rice bran is a beneficial ingredient for equine nutrition. Providing energy via fat combined with high levels of fibre makes it a perfect ingredient for the particular digestive system of these animals. It is also a palatable ingredient, greatly appreciated by the animals.

The booming aqua feed business is placing incremental stress on global fish meal supplies. Nutritionists are increasingly looking to vegetable protein sources to replace this expensive and rare ingredient and to develop a more sustainable aqua feed production, alleviating the environmental consequences of industrial aquaculture.

Rice Protein concentrate is a good alternative to fish meal; inclusion up to 20% is feasible without negative influence on zoo technical performance or fillet quality. Not only rice protein, but also rice starches and flours may be included in aqua feed. The specific structure of rice starch may be beneficial for a number of technological parameters important for aqua feed.

Flow Chart for The Manufacturing Process of Rice Protein





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