

PRODUCT DESCRIPTION

UNILEC PHP is pure Psyllium husk powder, Psyllium husk is part of seed of the plant Plantago Ovata also known as Ispaghula, Isabgol, a native to India. It naturally contain fiber and hygroscopic in nature which allows them to expand and become mucilaginous. Its non GMO, allergen free and gluten free.

PURITY GRADES AVAILABLE :99% USP, 98 % USP, 95% USP, 85% USP
MESH SIZE AVAILABLE :100 Mesh, 80 Mesh, 60 Mesh, 40 Mesh



PRODUCT APPLICATION

UNILEC PHP is used in products promoting weight control and general intestinal health and many studies shows the positive effect of psyllium husk. The main benefits come from its high amount of fibers. The spongy fibers reduces appetite, improves digestion and cleans the digestive system.

Application areas:

- Preventing dryness in gluten free bakery
- Adding a satiety effect
- Overcoming technical challenges in healthy food
- Natural Bowel movement
- Adding supplementary fiber

BOTANICAL CHARACTERISTICS

It is a pale to medium buff-colored powder having a slight pinkish tinge and weak characteristics odour. Occasional single and 2-to 4- compound starch granules, the individual grains being Spheroidal Plano to angular convex from 2-10 µm in diameter, are found embedded in the mucilage. Entire or broken epidermal cells are filled with mucilage. In surface view, the epidermal cells appear polygonal to slightly rounded. Mucilage stains red with ruthenium red TS and lead acetate TS. Some of the elongated and rectangular cells representing the lower part of epidermis and also radically swollen epidermal cells can be found.

PHYSICAL APPEARANCE

Light beige seed husk, pale buff, brittle flakes more or less lanceolate up to 2 mm long and 1 mm wide at the centre, much broken into smaller fragments; many of the flakes have a small brownish, oval spot about 0.8 to 1.0 mm long in the centre; the materials swells rapidly in water, forming a stiff mucilage.

Identification test "A" : (Mounted in cresol) : Cells viewed microscopically are composed of polygonal prismatic cells having 4 to 6 straight or slightly wavy walls.

Identification test "B" : (Mounted in alcohol and irrigated with water) : Viewed microscopically, the mucilage in the outer part of the epidermal cells swell rapidly and goes into the solution

PRODUCT SPECIFICATION

Parameter	Specification				Method of Analysis
MOISTURE (Loss on drying)	Max 12 %				USP
TOTAL ASH	Max 4 %				USP
ACID INSOLUBLE ASH	Max 1 %				USP
PURITY (AVAILABLE GRADES)	99%	98 %	95%	85%	USP
LIGHT EXTRANEIOUS MATTER	1%	2%	5%	15%	USP / (100- Purity%)
PARTICLE SIZE (100, 80, 60, 40 Mesh)	Min 95 % pass through mesh				USP
SWELL VOLUME	Min 40 ml/g				USP
FOREIGN MATTERS	Max 2 %				USP

MICROBIAL SPECIFICATION

Parameter	Specification	Method of Analysis
Total Plate Count	Max. 100000 CFU/g	USP
Insect Fragments	Max 100 parts / 25 g	USP
E. Coli	Absent/ g	USP
Eggs, Larvae, Insects Psocids, Mites	Absent/ g	USP
Yeast & Moulds	Max. 10000 CFU/g	USP
Salmonella	Absent/ 25g	USP

HEAVY METALS SPECIFICATION

Parameter	Specification	Method of Analysis
Pesticide Residue	Absent	USP
Heavy Metals as Lead (Pb)	Max 3 PPM	USP
Arsenic (as As)	Absent	USP
Cadmium (as Cd)	Absent	USP
Mercury (as Hg)	Absent	USP

REGULATIONS

UNILEC PHP conforms to EU regulations 1829/2003 and 1830/2003 free from GMO-declaration and USP.

SHELF LIFE

UNILEC PHP has minimum 18 months from the date of manufacture if retained in original packing away from direct sunlight and air. Recommended Storage at ambient temperature (>10 to < 30 °C) .

PACKAGING

25 Kg HDPE Laminated paper bags with inner poly bags. Preserve in well closed bags/containers. Special packaging may be available on request.

COUNTRY OF ORIGIN

Seeds : India | Production : India

Organic Grades also available. (NOP, NPOP, EU)

ALLERGENS

None

To the best of our knowledge the information contained in this specification is true and accurate, but recommendations or suggestion, which may be made, are without any guarantee since the conditions of use are beyond our control. These values are typical. Seasonal deviations may occur. Unilecithin does not guarantee that the products can be used as described above without prior positive testing at your end.