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Specification Sheet

- Product Name** Pumpkin seed protein
- Description** Pumpkin seed, also called white melon seed, is a mature seed of Cucurbitaceae plant pumpkin. It is rich in protein, fat, vitamins and minerals. It has rich nutritional value and is recognized as a good health food ingredient.
- Customs Code(HS)** 350 400 9000
- Packaging** 20 kgs paper-plastic composite bag with PE bag inner, Vacuum packaging.
- Storage Precautions** Product has to be stored in its unopened original packaging in a dry place, free from odours, insects and rodents. Under these conditions the product can be stored for 24 months.

Product name	Pumpkin seed protein	Batch No.	yy mm number-PSP
Spec	Enterprise standard	Shelf life	24 months

Organoleptic Evaluation	Description
Color & Taste	Greenish or bottle green powder, uniformity and relax, no agglomeration or mildew, no foreign matters with naked eye
Fineness	As per customers' requirements
Sieve analysis	95% through 300 mesh (0.054mm) mesh screen
pH 5.5-7.0	Qualified

Items	Unit	Criterion	Test Methods
Protein(dry basis)	%	≥ 70.0	GB 5009.5-2016
Fat(dry basis)	%	≤ 10.0	GB 5009.6-2016
Moisture	%	≤ 8.0	GB 5009.3-2016
Ash(dry basis)	%	≤ 7.0	GB 5009.4-2016
Fiber(dry basis)	%	≤ 8.0	GB 5009.10-2003

Safety & Nutrition Sheet

Items	Unit	Criterion	Test Methods
Heavy metal	ppm	≤ 10	BS EN ISO 17294-2 2016 mod
Lead(Pb)	ppm	≤ 1.0	BS EN ISO 17294-2 2016 mod
Arsenic(As)	ppm	≤ 0.5	BS EN ISO 17294-2 2016 mod
Cadmium(Cd)	ppm	≤ 0.5	BS EN ISO 17294-2 2016 mod
Mercury(Hg)	ppm	≤ 0.5	BS EN ISO 17294-2 2016 mod
Gluten allergen	ppm	≤ 20	ESQ-TP-0207 r-BioPharm ELIS
Soya allergen	ppm	≤ 10	ESQ-TP-0203 Neogen 8410
Melamine	ppm	≤ 0.1	FDA LIB No.4421 modified
AflatoxinB1+B2+G1+G2	ppb	≤ 4.0	DIN EN 14123.mod
Ochratoxin A	ppb	≤ 5.0	DIN EN 14132.mod
Irradiation	----	Not detected	En 13751:2009
GMO(Bt63)	%	≤ 0.01	Real-time PCR
Total plate count	cfu/g	≤ 10000	GB 4789.2-2016
Mold & yeast	cfu/g	≤ 100	GB 4789.15-2016
Coliforms	cfu/g	≤ 10	GB 4789.3-2016
E.Coli	cfu/10g	Negative	GB 4789.38-2012
Salmonella	/25g	Negative	GB 4789.4-2016
Staphylococcus aureus	/25g	Negative	GB 4789.10-2016

*****END OF SPECIFICATION*****

Nutritional information	/100g	
Caloric content	566	kcal
Total Fat	6.3	g
Saturated Fat	2.43	g
Trans Fat	0.03	g
Dietary Fiber	2.6	g
Total Carbohydrate	1.1	g
Sugar	0.18	g
Cholesterol	0	g
Protein	65.8	g
K(Potassium)	102	mg
Ca(Calcium)	16.5	mg
P(Phosphorus)	235	mg
Mg(Magnesium)	2.3	mg

Fe(Iron)	2.1	mg
Na(Sodium)	1.1	mg
Cu(Copper)	1.57	mg
Zn(Zinc)	2.3	mg
Se(selenium)	2.78	mg

*****All values typical, not to be construed as specifications*****

Amino Acids Sheet

Amino acids	Essential	Unit	Data
Aspartic Acid	×	g/100g	6.25
Threonine	√		2.12
Serine	×		2.94
Glutamic Acid	×		11.53
Glycine	×		3.29
Alanine	×		3.42
Valine	√		3.83
Methionine	√		1.39
Isoleucine	√		3.06
Leucine	√		5.54
Tyrosine	×		2.33
Phenylalanine	√		3.84
Lysine	√		2.56
Histidine	×		1.85
Arginine	×		8.55
Proline	×		2.79
Cystein+Cystine	×		1.80
Tryptophan	√		1.20
Hydrolyzed amino acids(18 kinds)	---	68.29	
Essential amino acid(8 kinds)	√	23.54	

Test Methods: Hydrolyzed amino acids Method:GB 5009.124-2016

*****All values typical, not to be construed as specifications*****