



PURIS™ Pea HiLo/ Non-GMO Pea Protein		
Product Name	PURIS™ Pea HiLo	Version 0.1
Brand Name	PURIS™	
Confidential Document		
Pre-Commercialization Specification*-for R&D use only		

*The current product is under R&D and the specification should be considered as pre-commercialization specification. As a result of that the specification sheet and functional properties are subject to changes until the product is commercialized.

Description: PURIS Pea HiLo is non-GMO 80% pea protein manufactured from yellow field peas in the USA without the use of any chemical solvents. P870 HiLo is specifically designed for applications where excellent solubility and smooth mouthfeel is desired in acidic pH applications. pH of the product system is recommended to kept below < 5.0.

Ingredients: Pea Protein

Botanical Name: Pisum sativum L.

Sensory Characteristics:

Parameter	Comments
Appearance	Cream to Off-White Powder
Taste	Neutral Bland Taste
Odor	Clean no Off-Odor

Physical Characteristics:

Parameter	Comments	Method
Through 200 mesh (75 microns)	70 % min	Particle Size Analyzer
Poured bulk density	0.35 g/ml Typical	Gravimetric
pH	6.5-7.5	10% Solution

Microbiological Characteristics:

Parameter	Values	Method
Aerobic plate Count	<50,000/g	BAM Ch. 3
Coliform	<10 cfu/g	BAM Ch. 4
E. Coli	<10 cfu/g	BAM Ch. 4
Yeast and Mold	<100 cfu/g	AOAC
Salmonella	Negative /375 g	AOAC/BAM

Status:	Current Review Date:	Previous Review Date:	Supersedes:	Approval:
Active	05/06/2022			Kushal Chandak, VP of R&D



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Nutritional Data (Typical values for 100g of commercial product):

Chemical Analysis	Values	Tolerance	Method
Moisture (g)	6.0	Max	AOAC 930.15
Protein (dry matter basis) (g)	80.0	Min	AOAC 992.23
Total Fat (g)	6.0	Average*	AOAC 996.06
- Saturated Fat (g)	1.0	Average*	AOAC 996.06
- Mono-unsaturated fat (g)	2.0	Average*	AOAC 996.06
- Poly-unsaturated fat (g)	3.0	Average*	AOAC 996.06
- Cholesterol (mg)	0.0	Average*	AOAC 996.06
- Trans Fatty Acids (g)	0.0	Average*	AOAC 996.06
Carbohydrates (g)	4.0	Average*	Calculated
- Sugars (g)	0.0	Average*	AOAC 982.14
- Added Sugars (g)	0.0	Average*	AOAC 982.14
- Dietary Fiber (g) ¹	4.0	Average*	AOAC 991.43(Mod.)
- Soluble Fiber (g)	0.0	Average*	AOAC 991.43(Mod.)
- Insoluble Fiber (g)	4.0	Average*	AOAC 991.43(Mod.)
Ash (g)	5.0	Average*	AOAC 942.05
- Sodium (mg)	750	Average*	AOAC 965.017/985.01
- Phosphorus (mg)	1,100	Average*	AOAC 965.017/985.01
- Potassium (mg)	200	Average*	AOAC 965.017/985.01
- Calcium (mg)	400	Average*	AOAC 965.017/985.01
- Iron (mg)	10	Average*	AOAC 965.017/985.01
Vitamin D (mg)	0.0	Average*	Huang et. Al Rapid Comm. Mass Spectrum 2014, 28
Calories (Kcal)	390	Average*	Atwater Factors

(*): Typical average values are given for information, and should not be considered contractual

1. Based on PURIS current evaluation of new FDA Dietary Fiber definition

Amino Acid Profile (Typical data per g/100g) *:

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Essential Amino Acids	Values	Non-Essential Amino Acids	Values
Arginine	6.84 g	Alanine	3.44 g
Histidine	1.99 g	Aspartic Acid	9.42 g
Isoleucine	4.05 g	Cysteine	0.85 g
Leucine	6.80 g	Glutamic Acid	13.32 g
Lysine	6.11 g	Glycine	3.28 g
Methionine	0.85 g	Serine	3.88 g
Phenylalanine	3.86 g	Tyrosine	3.86 g
Threonine	3.05 g	Proline	3.55 g
Valine	4.28 g		
Tryptophan	0.79 g		

(*) Typical average values are given for information, and should not be considered as contractual

Heavy Metals*:

Parameter	Values	Tolerance	Method
Lead	0.03 mg/kg	Max	ICP MS
Arsenic	0.01 mg/kg	Max	ICP MS
Cadmium	0.07 mg/kg	Max	ICP MS
Mercury	0.01 mg/kg	Max	ICP MS

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Allergen Declaration:

Component	Present in the product	Present in other products produced on the same line	Present in the same plant
Barley, Rye, Oats	NO	NO	NO
Celery (not including seeds)	NO	NO	NO
Corn	NO	NO	NO
Egg or egg product	NO	NO	NO
Fish	NO	NO	NO
Milk & Milk by-product	NO	NO	NO
Monosodium Glutamate (MSG)	NO	NO	NO
Peanuts or peanut products	NO	NO	NO
Seeds (Poppy, Sunflower, Cottonseed)	NO	NO	NO
Sesame Seeds	NO	NO	NO
Shellfish & Crustaceans	NO	NO	NO
Soybean Oil (excluding refined soy oil)	NO	NO	NO
Soybean (not including oil)	NO	NO	NO
Sulphites (enter maximum ppm)	NO	NO	NO
Tree Nuts	NO	NO	NO
Wheat or wheat products	NO	NO	NO
Gluten ¹	NO	NO	NO
Yellow 5 (Tartrazine)	NO	NO	NO
Animal Fat	NO	NO	NO
Grains containing gluten	NO	NO	NO
Mustard	NO	NO	NO
Lupin	NO	NO	NO
Lactose	NO	NO	NO

(1): Present in product at levels no greater than 20 ppm.

Label Declaration: Pea Protein.

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Lot Coding: Example Lot Number: 141003TL2; 14= Year, 10= Month, 03= Date, TL=Site, 2= Packaging Line

Non-GMO Declaration: PURIS™ Pea 870 FlowBev is non-GMO.

Packaging: Packaged in 20kg multiwall paper bags

Storage Conditions: Product should be stored in a cool, dry location, and in the original sealed package away from odorous material.

Shelf Life: The shelf is a minimum of 24 months.

Certification: Kosher, Halal, Non-GMO Project Verified.

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