

Product Description

BioExx Vitalexx® highly-hydrolyzed protein is made from non-GMO Juncea-variety Canola seed using our proprietary and patented technology for oil extraction and protein production. Vitalexx® is 100% water soluble, forming a completely clear solution across a wide pH range. Vitalexx® is for use in human food products including:

- >> Nutritional beverages (protein fortified soft drinks, fruit juices, high protein drinks)
- >> Healthy food applications to improve absorption and digestibility
- >> Nutritional and protein bars

BioExx is a fully integrated facility starting from the raw seed, controlling the complete oil removal and meal processing stages through to production of the purified proteins, enabling us to ensure the highest level of control and quality.

Technical Data

Vitalexx® is a highly-soluble peptide-amino acid concentrate (>80% Nx6.25), possessing an excellent and well-balanced amino acid profile comparable with whey protein having excellent bioavailability for high nutritional values.

- >> High Amino Acid Score – AAS ~1.17, PDCAAS 1.14
- >> Uniquely high in both lysine and sulphur containing amino acids, such as methionine and cysteine, compared to other vegetable proteins
- >> 69% higher in the sulfur containing amino acids (methionine + cysteine) than typical soy protein and 100% higher than typical pea protein
- >> Rich in the muscle building essential amino acids such as valine, leucine, and isoleucine
- >> High in threonine, an essential amino acid important for brain activity
- >> Free of phytoestrogens
- >> Low foaming
- >> Minimal effect on processing
- >> Non - GMO, natural product

VITALEXX® Specification and Typical Analysis

Physical Description	Mininum	Typical
Appearance	Spray Dried Tan Powder	
Flavour	Characteristic	
pH	7.0 ± 0.5	
Solubility (water)	98 %	
Colour in solution	tan, transparent	
Proximate Analysis	Specification	Typical
Amino Acids/Peptides	>75% (as is) >80 % (dwb)	82 % (as is) 87 % (dry)
Moisture	<9 %	5.9 %
Ash	<7 %	6.0 %
Fat (acid hydrolysis)	<2 %	<0.2 %
Crude Fiber	<0.5 %	<0.1 %
Microbiological Profile		
Standard Plate Count [cfu/g]	<10,000	<1000
E.coli /10g	Negative	Negative
Salmonella /25g	Negative	Negative
Nutritional Data		
Saturated Fat	0 %	0 %
Cholesterol	0 %	0 %
Trace Components		
Total Glucosinolate	<1 umol/g	0.20 umol/g
Phytate	<1%	<0.5%

Typical Amino Acids	(G/100G Protein)
Alanine	5.1
Arginine	7.5
Aspartic Acid	7.3
Cysteine	2.4
Glutamic Acid	18.4
Glycine	5.2
Histidine [†]	3.0
Isoleucine [†]	4.8
Leucine [†]	7.3
Lysine [†]	5.7
Methionine [†]	2.0
Phenylalanine [†]	4.1
Proline	6.5
Serine	4.9
Threonine [†]	4.6
Tryptophan [†]	1.3
Tyrosine	4.5
Valine [†]	5.2
Sulfur amino acids	

[†] essential amino acids.

Granulation

90% through #80 mesh U.S. Standard Screen

Packaging

Available in 25 kg (55.1 lb.) net weight, multi-wall, poly-lined paper bags. Custom packaging available.

Storage

Expiry: 12 months from date of manufacture
 Store below 25°C (75°C F) and 60% relative humidity