Product Information

Product: Whey protein isolate 92%

Description & application

Volactive[®] UltraWhey 90 Instant is manufactured from whey using cross-flow membrane filtration. The resulting protein concentrate is spray-dried with concurrent agglomeration and instantised with sunflower lecithin (E322). This product provides an excellent source of natural protein for use in a variety of food and beverage applications.

Chemical properties	Typical	Min/Max	Reference method
Protein % (Nx6.38, dry matter)	92	90 min	NIR (cal. to Dumas)
Moisture %	5.0	6.0 max	NIR (cal. to moisture balance; 105°C)
Ash %	2.8	4.0 max	NIR (cal. to oven, 550°C)
Lactose %	2.3	3.5 max	HPLC
Fat %	0.6	1.0 max	NIR (cal. to Rose-Gottlieb)
pH	6.2	5.8 min	pH meter (10% solution)
Physical properties	Typical		Reference method
Appearance	White to off-whit		Sensory assessment
Flavour & odour	Milky, clean, no c		Sensory Assessment
Scorched particles	Disc A		ADPI, bulletin 916
Bulk density, g/mL	0.40		Tapped (50g; 200 taps)
Microbiological properties Total Viable Count, cfu/g Enterobacteriaceae, cfu/g Yeasts, cfu/g Moulds, cfu/g Escherichia coli, cfu/g Salmonella in 375g Coagulase positive staphylococci, cfu/25g	Typical <5,000 <10 <10 <10 <10 Not detected Not detected	Max 10,000 10 10 10 <10 Not detected 10	Reference method ISO 4833-1:2013 ISO 21528-2:2017 ISO 6611:2004 ISO 6611:2004 ISO 16649-2:2001 ISO 6579-1:2017 ISO 6888-1:2021

Milk origin

Bovine milk from the UK and EU.

Allergens

Milk and products thereof (lactose and protein).

GMO

Non-GM product; does not contain, consist of, nor produced from genetically modified organisms (GMOs), in whole or in part.

Informed Ingredient

Registered with Informed Ingredient and being screened for more than 250 banned and prohibited substances as specified on the World Anti-Doping Code International Standard.

Intended use

Volactive[®] UltraWhey 90 Instant is intended for use in products for the general population, with exception of foods intended for infants and young children. It has not undergone a food safety risk assessment to determine its suitability for food intended for consumers with vulnerabilities or sensitivities.

Nutritional information, g per 100 g powder

	101	01
Energy value, KJ		1,555
Energy value, Kcal		366
Protein		92.0
Carbohydrates		2.30
of which sugars		2.30
Fat		0.60
unsaturated		0.45
monounsaturated		0.25
polyunsaturated		0.20
trans		0.01
saturated		0.15
Cholesterol		<0.01
Dietary fibre		0.00

Diets

Vegetarian, Kosher and Halal.

Nanomaterials

Product does not contain 'engineered nanomaterials'.

Irradiation

Product and raw materials are produced without the application of any irradiation technology or Ethylene Oxide treatment.

Shelf life & Storage

Twenty-four months from date of manufacture when stored in the original sealed packaging in a cool, dry place, away from strong odours, aromatic materials and direct sunlight.

Packaging

Paper multi-wall heat-sealed bag with blue inner heatsealed polyethylene liner containing 20 Kg net weight.

Tariff code

3502 2091

Protein declaration, %

The protein declaration of a product is strongly linked to the product application, the industry and/or the legal labelling requirements. The table below provides the different ways that the protein content of Volactive[®] UltraWhey 90 Instant can be declared.

	Typical	Min
Nx6.38; dry matter basis	92.0	90.0
Nx6.38; as is basis	87.9	86.0
Nx6.25; dry matter basis	90.1	88.2
Nx6.25; as is basis	86.0	84.2

Minerals, mg per 100g powder		Vitamins, μg per 100g powder	
Calcium	450	B1 - Thiamin	120
Chloride	50.0	B2 - Riboflavin	200
Iron	0.60	B3 - Niacin	50.0
Magnesium	50.0	B5 - Pantothenic acid	70.0
Phosphorus	220	B6 - Pyridoxine	16.0
Potassium	400	B9 - Folate	17.0
Sodium	200	B12 - Cyanocobalamin	3.50
Selenium	0.07	D3 - Cholecalciferol	1.00
Zinc	0.30		

Amino acid profile, g per 100g powde		Protein fractions, % of p	
Alanine	4.70	Beta-Lactoglobulin	50 - 60
Arginine	1.50	Alpha-Lactalbumin	15 - 20
Aspartic acid	10.5	Glycomacropeptide	15 - 20
Cystine	2.20	Bovine Serum Albumin	1.0 - 2.0
Glutamic Acid	16.2	Immunoglobulin G	1.0 - 2.0
Glycine	1.60	Immunoglobulin A	0.1 - 1.0
Histidine	1.40	Lactoferrin	0.1 - 0.5
Isoleucine	5.50		
Leucine	8.80		
Lysine	9.00		
Methionine	2.00		
Phenylalanine	2.50		
Proline	5.70		
Serine	5.00		
Threonine	6.90		
Tryptophan	1.60		
Tyrosine	2.30		
Valine	5.00		
Contaminants	MRL		MRL
Arsenic, ppm	1.00	Aflatoxin M1, ppb	0.05
Cadmium, ppm	0.10	Ochratoxin A, ppb	2.00
Chromium, ppm	0.10	Melamine, ppm	2.50
Lead, ppm	0.02	Chlorate, ppm	0.15
Mercury, ppm	0.05	Perchlorate, ppm	0.05
Manganese, ppm	1.00	BAC, ppm	0.10
Nitrate, ppm	100	DDAC, ppm	0.10
Nitrite, ppm	2.00	Pesticides	Legal UK & EU
Sum of dioxins (WHO-PCDD/ F-TEQ),	2.00		compliance
pg/f fat			
Sum of dioxins and dioxin-like PCBS	4.00		
(WHO-PCDD/F-PCB- TEQ), pg/f fat			
Sum of PCB28, PCB52, PCB101, PCB138,	40.0		
PCB153 and PCB180 (ICES – 6), ng/g fat			
Accreditations & Memberships			
FSSC 22000 ISO 9001		Kosher certified	SEDEX
ISO 45001 ISO 50001		Halal certified	Ecovadis

Disclaimer

ISO 14001

SMETA certified

The information presented in this document is from average values of continuous work and is believed to be accurate and reliable. The information should be used as guidance only, since certain product batches can deviate from the typical figures. This document is reviewed at least annually.

Informed Ingredient

EWPA