

Name of product	WHEY PROTEIN CONCENTRATE POWDER INSTANT WPC80
Colour	Homogeneous, white cream to yellowish.
Flavour, taste, smell	Specific for whey proteins, pure, with no foreign aftertaste or odours.
Consistency	Fine, free flowing powder.
Intended use	The whey protein concentrate WPC 80 can be used in food industry for different products. Suitable for vegetarians.

Chemical values:	Parameters	Research methodology
Moisture	Max. 5,0 %	LST EN ISO 5537:2004; ISO 5550
Protein content	Min. 78,0 %	LST ISO 8968-3:2007
Total Protein content in dry basis	Min. 81,0 %	Calculated
pH (in 10% solution)	6,0 – 6,65	Potentiometric method
Ash	Max 3,5 %	ADPI method/ ISO 5545:2008 (525°C)
Fat	Max. 7,0 %	LST EN ISO 1736:2009/ ISO5543
Lactose	Max. 5,0 %	Polarimetric method/ ISO 5548:2004
Scorched particles ADPI (/25G)	Disc A	ADPI methods
Bulk density	0,400 – 0,550 g/ml	LST ISO 8967

Microbiological values:	Parameters	Research methodology
Total plate count	≤20000 cfu/ g	LST EN ISO 4833-1:2013
Coliforms	<10 cfu/ g	LST ISO 4831: 2006
E. coli	None cfu/ g	LST ISO 16649-2:2002
Moulds	<100 cfu/ g	LST ISO 21527-1:2013
Yeasts	<100 cfu/ g	LST ISO 21527-1:2013
Bacillus Cereus	<250 cfu/ g	LST EN ISO 7932:2005
S. aureus	<10 cfu/g	LST EN ISO 6888-1+A1:2005
Salmonella	None cfu/ 25g	LST EN ISO 6579:2003/AC 2006
Coagulase Positive Staphylococcus	<10 cfu / g	LST EN ISO 6888-1+A1:2005
Listeria monocytogenes	None / 25g	LST EN ISO 11290-1:2003/ A1:2005/ P:2004
Antibiotics / inhibitors	None	DELVOTEST SP-NT

Nutrition value 100 g of product:

Energy value, kJ/kcal	1683/397
Fat, g	4,4
of which saturates, g	2,2
Carbohydrates, g	8,4
of which sugars, g	3,29
Protein, g	81
Salt*, g	0,36

*The amount of salt in the product is determined solely by naturally occurring sodium

TYPICAL AMINO ACID PROFILE

Amino acids represented as g/100 g of product:

Alanine	4,57	Lysine	8,50
Arginine	2,08	Methionine	2,02
Aspartic Acid	9,62	Ornithine	<0,05
Cystein + Cystine	2,14	Phenylalanine	2,78
Glutamic Acid	15,4	Proline	5,28
Glycine	1,64	Serine	4,50
Histidine	1,61	Threonine	6,26
Hydroxyproline	<0,05	Tyrosine (calc.)	2,62
Isoleucine	5,45	Tryptophan (Total)	1,71
Leucine	9,50	Valine	5,20

Packaging:

Multilayer paper bags with a polyethylene insert are direct packing containing 20 kg net weight. Product weight on pallet 600kg / 30 paper bags on pallet.

Metal Detector

Fe 2,20 mm **Non-Fe** 2,50 mm **SS** 3,00 mm

A metal detector test is carried out: at the start of work, after changing the type of product after completion of packing, but not less than every two hours.

Shelf Life and Storage:

For maximum stability it is recommended that this product be stored 0°C - +25°C, humidity should not be higher than 65%. Powder should be stored away from strong flavours or odours.

Minimum 24 months if stored in closed bags under the above mentioned storage conditions.

EU Classification:

Dried milk albumin, for human consumption including concentrates of two or more whey proteins. Code: **3502 20 91**

Status of GMO:

According to the regulations of Regulation (EC) No 1829/2003 and Regulation (EC) No 1830/2003 the European Parliament and the Council of the ingredients used in the production do not contain, do not consist of and are not produced from genetically modified organisms (GMO).

Radiation:

The product described above is not treated with ionizing rays.

Nanotechnology:

The product described above is not manufactured using nanotechnology.

Information on compliance with specific requirements / quality systems (Yes/No):

FSSC 22000	Yes	
ISO 22000:2005	Yes	
HACCP	Yes	
Halal	Yes	
Kosher		No

Substances or products causing allergies or intolerances acc. (ES) No. 1169/2011	yes / no	Possible traces yes / no
Cereals containing gluten and products thereof	no	no
Crustaceans and products thereof	no	no
Egg and products thereof	no	no
Fish and products thereof	no	no
Peanuts and products thereof	no	no
Soya and products thereof	no	no
Milk and products thereof (including Lactose)	yes	yes
Nuts and products thereof	no	no
Celery and products thereof	no	no
Mustard and products thereof	no	no
Sesame seeds and products thereof	no	no
Sulphur dioxide and sulphites (at concentrations of more than 10mg/kg or 10ml/l, expressed asSO ₂)	no	no
Lupines and products thereof	no	no
Molluscs and products thereof	no	no