

**Product Specification**

#: SP-WP-149

**WHEY PROTEIN CONCENTRATE POWDER
WPC 80**

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State: Applicable

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Produkcji i Techniki]

- 1. Product name:** Whey protein concentrate powder WPC 80
- 2. Raw material:** Fresh whey obtained from sweet cheese production
- 3. Sensory, physical-chemical and microbiological requirements.**

Sensory characteristic		
Appearance	free flowing powder, homogenous, finely atomized, small conglomerates easily crumbling - admissible	
Colour	homogenous, creamy white to yellow	
Taste and aroma	specyfic - proteinaceous, clean, free from off-odour and off-taste	
Mechanical impurities	not allowed, scorched particles – disc A , B - admissible	
Physical-chemical characteristic		
	target	acceptable
Moisture	max. 5,0	max. 6,5
Fat	max. 6,0	max. 9,0
Protein in dry matter	81	min 80
lactose	5	max. 8
pH	max. 6,5	6,0 -7,0
Solubility index	0,2 cm ³	max. 1,0 cm ³
Antibiotics or inhibitory substances	absent	absent
Microbiological characteristic		
	target	acceptable
Total Plate Count (cfu/g)	10 000	max. 30 000
Salmonella	absent in 25 g, n=5 c=0	absent in 25 g, n=5 c=0
Listeria monocytogenes	absent in 25 g, n=5 c=0	absent in 25 g, n=5 c=0
Staphylococcus aureus (cfu/g)	m=M<10, n=5 c=0	m=10 M=100, n=5 c=2
Enterobacteriaceae (cfu/g)	m=M<10, n=5 c=0	m=M=10, n=5 c=0
Coliforms (cfu/g)	m=M<10, n=5 c=0	m=0 M=10, n=5 c=2
Yeasts and moulds (cfu/g)	max 50	max 100

- 4. Requirements concerning contaminants** – heavy metals, aflatoxines M1, pesticides – in accordance with applicable laws
- 5. Additional informations: Allergens** - milk and products thereof (including lactose),
GMO statement: product does not contain GMO or GMO sourced components
- 6. Packaging: direct package** – paper bags - 15.0 kg, 4-layer with z polyethylene insert
Palleting: 825kg EURO pallets wrapped in stretch foil.
- 7. Labelling:** in accordance with applicable laws and UE regulations .

8. Nutritional information

Energy value	1715kJ/406kcal
Fat	7,3 g
of which Saturated fatty acids	4,7 g
Carbohydrates	10 g
of which sugars	4,4 g
Protein	75 g
Salt	0,42 g

9. Storage conditions: temp. $\leq 20^{\circ}\text{C}$, RH $\leq 75\%$. Shelf life: 24 months from production date

10. Transport - means of transport protecting product against damage , moisture or other dangers .
Valid sanitary book of the vehicle required.

11. Declaration of conformity – specification comply with applicable laws.

12. Contact data: e-mail: cheese@spomlek.pl, tel.: +48 83 3511426