

Grade A Milk Protein Concentrate 70% Export Specification

Grade A Milk Protein Concentrate 70% is a spray dried, free flowing milk protein and is an equivalent replacement for conventional nonfat dry milk. MPC70 is made by processing Grade A skim milk by ultrafiltration, which removes a portion of the lactose. The resulting concentrated milk proteins are subjected to evaporation and spray drying. This product is manufactured in the USA.

Chemistry Parameters	Analysis	Method	Allergen	Milk (Bovine)
Protein	≥ 69.5%	FT-NIR/AOAC 991.20		
Moisture	≤ 6.00%	FT-NIR/ADPI		
Fat	≤ 2.00%	FT-NIR/AOAC 989.05		
Lactose	≤ 17.0 %	Calculation		
Scorched Particles	7.5 to 15 mg	ADPI (Disc A or B)		
Solubility Index	≤ 1.00	SMEDP 15.171		
Ash	≤ 7.5%	SMEDP 15.041		
pH	6.5-7.1	SMEDP 15.022		
Bulk Density Antibiotic Residues	≥ 0.41 g/ml Negative	USP Charm SL3		
Microbiological Parameters			Regulatory Compliance	
Standard Plate Count	≤ 30,000 cfu/g	SMEDP 6.020	CODEX ✓	Gluten Free ✓
Coliforms	< 10 cfu/g	SMEDP 7.020	GFSI (SQF) ✓	Vegetarian ✓
Salmonella	Negative/375g	ANSR/AOAC 2013.14	Halal ✓	Kosher ✓
Staphylococcus aureus	Negative	AOAC 17.5.09		
E. coli	Negative	SMEDP 7.074		
Listeria	Negative	ANSR/AOAC 2013.14		
Yeast & Mold	≤ 50 cfu/g	MEDP 8.111		
Nutritional Proximates (per 100g)			Storage	
Calories	358.40kcal	Vitamin A <25.00IU	The product should be stored in a cool (≤25°C), dry (≤RH 65%) place protected from foreign odors & other contaminants.	
Protein	69.89g	Vitamin C 12.55mg		
Total Fat	1.06g	Vitamin D <6 IU		
Water	4.66g	Calcium 1923.46mg		
Carbohydrates	17.34g	Iron <1.00mg		
Dietary Fiber	<0.50g	Sodium 181.02mg		
Ash	7.07 g	Cholesterol 56.89mg		
Sensory & Physical Standards			Shelf Life	
Appearance / Color	Powder, free of lumps / White to light cream			
Flavor / Odor	Clean, bland, sweet / Fresh, no off odors			
Sensory & Physical Standards			Packaging	
			20kg (net weight) Multiwall kraft bags with polyethylene inner liner or another approved closed container, palletized on Heat Treated pallets.	

Spec - 0021 MU70E

Reviewed: Dave Kedzierski SVP,
Business Transformation

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SS. = Supersedes