

Provisional specification sheet

PROTILIGHT IP4

Description

Spray dried fresh curd, Instant Calcium Caséinate, with lecithin and improved wettability. Protilight IP4 has the advantages of the excellent nutritional value of milk and a very good dispersibility in aqueous media.

Suggested applications

Protilight IP4 has been specially designed for nutritional formula: for example sport and slimming formula. Because Protilight IP4 is easy to dissolve, it is an ideal ingredient for powder mixes: drinks, meals and dietary supplements. Its mouthfeel is pleasant and its neutral taste enables you to formulate a wide range of products.

Physical characteristics

Aspect	Powder
Color	White
Taste	Typical
pH	6,8 – 7,5

Chemical analysis

		Typical value
Proteins (N x 6,38)	90 % mini	95% on dry
Moisture	6 % max	
Ash	5 % max	
Total Fat	2% max	1%
Lecithin	0,3% max	
Lactose	0,5% max	
Calcium		1,5%

Ingredients : Calcium caseinate (99,5%), (IP) Soja Lecithin (E 322) (0,5%)

Microbiological analysis

Standard plate count	10 000 /g
Thermophilic germs	5000 / g max
Enterobacteria C	< 10 / g
Yeast + Moulds	100 /g max
<i>Staphylococcus aureus</i>	Negative /0,1 g
Salmonella	Negative /25 g

Packaging

20 kg multiwall paper bags with polyethylen liner

Storage

To be stored indoors and dry place, for 24 months preservation from date of manufacture

TYPICAL NUTRITIONAL COMPOSITION

for 100g powder

PROTEINS	(N x 6.38)	92
GLUCIDS		0.4
LIPIDS		0.6 (cholesterol : 30 mg / 100g max)
Energy		375 kcal

TYPICAL AMINO ACIDS PROFILE

g for 100g protein

<i>Branched Chain Amino Acids</i>		<i>Essential amino acid</i>	<i>Others</i>		
ILE	5.3	LYS	7.7	ALA	2.5
LEU	9.5	THR	4.1	ARG	3.3
VAL	6.7	TRP	1.3	ASP	6.0
Total	<u>21.5</u>	MET	3.0	GLU	20.8
		CYS	0.3	GLY	1.5
		PHE	4.9	HIS	2.5
		TYR	5.5	PRO	10.5
		BCAA	<u>21.5</u>	SER	4.6
		Total	<u>48.3</u>	Total	<u>51.7</u>

TYPICAL VITAMIN CONTENT

VITAMINE A	0.2 mg/kg
VITAMINE B1	< 0.1 mg/kg
VITAMINE B2	< 2 mg/kg
VITAMINE B3	2 mg/kg
VITAMINE B5	< 5 mg/kg
VITAMINE B6	4.3 mg/kg
VITAMINE B8	0.2 mg/kg
VITAMINE B9	< 0.05 mg/kg
VITAMINE B12	6 µg/kg
VITAMINE C	25 mg/kg
VITAMINE D	0.3 mg/kg

TYPICAL MINERAL CONTENT

Calcium	1300 mg/100g
Phosphorus	750 mg/100g
Sodium	10 – 20mg/100g
Potassium	10 – 20 mg/100g
Magnesium	10 mg/100g
Chloride	300 mg/100g