Dairy Based Nutritional Powder P2

PRODUCT SPECIFICATION

IFB201
Dairy Based Nutritional Powder P2

General description
Nutritional Base powder P2 is a Stage2 Dairy Based Nutritional basepowder, suitable as an ingredient for nutritional formulations for toddlers 6-12 months old. It is a combination of skim milk with whey, minerals, vitamins, trace elements and vegetable oils. This nutritional basepowder is intended for the China, Australia and New Zealand markets. With specific drymix additions it can also be used to formulate products for Codex markets; information on the required additions available on request.
Raw materials used in this product do not contain sucrose, GMO materials, gluten or partially hydrogenated oils and have not been treated by ionizing radiation.

Physical characteristics
Homogeeous creamy or yellow colour free flowing powder with excellent solubility in warm water. It has a clean, bland flavour and odour, and slightly sweet taste.

International Standards Compliance
This Dairy Based Nutritional Powder meets the requirements of:
• Food Standards Australia and New Zealand (FSANZ)
• China GB standards GB 10765-2010
• Halal and Kosher
• CODEX CAC 66/2008

Packaging Information
Packed in tamper evident, strippable barrier bags (multi walled kraft paper bag with barrier polyethylene/nylon/EVOH liner). Outer bags are glued closed for tamper evidence. Inner bags are heat sealed. No staples or metal fasteners are used.
Bags are palletised on slipsheets 2200x1160mm, protected by a topsheet and full shrink wrapping. Available on 2200x1160mm pallets on request.
Bags are gas flushed with nitrogen (N2) and carbon dioxide (CO2), printed with lot code, manufacturing and expiry dates. No staples or metal fasters are used.

Storage and Shelf Life
Shelf life is 18 months from the date of manufacture when stored in sealed original packaging.
Recommended storage is below 25°C and 65%RH, out of direct sunlight and away from strong smelling ingredients.

Detailed requirements: The following section lists the detailed compositional specifications for this product. Other analytical methods may be used to those specified as long as the results are equivalent.

Physical Properties

Parameter	Units*	Max.
Bulk density	kg/l	0.48
Insolubility index	ml	<0.2
Free Fat	%	<1.5
Scorched Particles	/65g	Grade A
Foreign Matter	/65g	Absent
Impurity	mg/kg	<12
Residual oxygen	%	<3

Microbiological Specification

Parameter	Units*	Max
Aerobic Plate Count (35°C)	cfu/g	500
Coliforms	cfu/g	-
Yeasts and Moulds	cfu/g	<10
Salmonella	60 x 25g	Absent
Listeria monocytogenes	10 x 25g	Absent

Coagulase Positive Staphylococci	cfu/g	-
E.coli	cfu/g	-
B.cereus	cfu/g	<100
Enterobacteriaceae	/10g	-
C.sakizakii	30 x 10g	Absent
Clostridium perfringens	cfu/g	-

General Composition

Parameter	Units*	Target
Proximates:		
Energy	KJ/100g	2127
Protein (N*6.25)	g/100g	21.7
-Whey	g/100g	50/50
-Casein	g/100g	10.9
Fat	g/100g	26.7
-Linoleic acid (LA)	mg/100g	4726
-α-Linolenic acid (ALA)	mg/100g	525
-ratio LA/ALA	-	9
Carbohydrates – (% total CHO)	g/100g	45.3
Moisture	%m/m	2.5
Ash	%m/m	3.8
Minerals:		
Calcium	mg/100g	668
Chloride	mg/100g	445
Copper	µg/100g	335
Iodine	µg/100g	162
Iron	mg/100g	8.2
Magnesium	mg/100g	63.8
Manganese	µg/100g	331
Phosphorus	mg/100g	416
Potassium	mg/100g	705

Parameter	Units*	Target
Selenium	µg/100g	25.0
Sodium	mg/100g	200
Zinc	mg/100g	4.6
Ca:P	mg/100g	1.6
Vitamins:		
Vitamin A	µgRE/100g	653
Vitamin D	µg/100g	9.1
Vitamin E	mgα-TE/100g	13.1
Vitamin K	µg/100g	68.0
Vitamin B1	µg/100g	895
Vitamin B2	µg/100g	1561
Vitamin B6	µg/100g	493
Vitamin B12	µg/100g	3.7
Niacin	µg/100g	5165
Folic acid	µg/100g	109
Pantothenic Acid	µg/100g	4767
Vitamin C	mg/100g	150
Biotin	µg/100g	32.0
Nutritionals:		
L-Carnitine	mg/100g	16.5
Taurine	mg/100g	35.8
Choline	mg/100g	126
Inositol	mg/100g	76

*Unless otherwise stated, all percentages used in this document are mass/mass.