Dairy Based Nutritional Powder P3

PRODUCT SPECIFICATION

IFB301 Dairy Based Nutritional Powder P3

General description

Nutritional based powder P3 is a Nutritional basepowder, suitable as an ingredient for nutritional formulations for toddlers 12-36 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

Homogeneous 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:

- · China GB standards; GB 10767-2010
- Food Standards Australia and New Zealand (FSANZ)
- · Halal / 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	0.48-0.55
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	2038		
Protein (N*6.25)	g/100g	22.3		
-Whey	g/100g	8.9		
-Kasein	g/100g	13.4		
Fat	g/100g	23.0		
-Linoleic acid (LA)	mg/100g	4078		
-α-Linolenic acid (ALA)	mg/100g	453		
-ratio LA/ALA	-	9		
Carbohydrates – (% total CHO)	g/100g	47.5		
Moisture	%m/m	2.5		
Ash	%m/m	4.7		
Minerals:				
Calcium	mg/100g	720		
Chloride	mg/100g	720		
Copper	μg/100g	396		
lodine	μg/100g	177		
Iron	mg/100g	7.3		
Magnesium	mg/100g	71		
Manganese	μg/100g	330		
Phosphorus	mg/100g	450		
Potassium	mg/100g	959		

Parameter	Units*	Target		
Selenium	μg/100g	25.0		
Sodium	mg/100g	222		
Zinc	mg/100g	4.2		
Ca:P	mg/100g	1.6		
Vitamins:				
Vitamin A	μgRE/100g	625		
Vitamin D	μg/100g	8.7		
Vitamin E	mgα-TE/100g	12.8		
Vitamin K	μg/100g	67		
Vitamin B1	μg/100g	823		
Vitamin B2	μg/100g	1605		
Vitamin B6	μg/100g	495		
Vitamin B12	μg/100g	3.7		
Niacin	μg/100g	5689		
Folic acid	μg/100g	109		
Pantothenic Acid	μg/100g	5196		
Vitamin C	mg/100g	150		
Biotin	μg/100g	34		
Nutritionals:				
L-Carnitine	mg/100g	16		
Taurine	mg/100g	34.3		
Choline	mg/100g	130		
Inositol	mg/100g	107		

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