

PRODUCT INFORMATION

See also www.organic.nl

Product	Manioc starch/ tapioca
Code	50071
Certificate	BioAgriCert
Country of origin	Thailand
Last update	05 June 2013
Date of issue	05 June 2013
This product is	Organic and not genetically modified or irradiated

Production	
Ingredients	Manioc/tapioca
Additives	No additives
Process	Wash the roots, crashing, centrifugation, separation of water and starch by vacuum filter, drying, packing

Sensorial properties	
Smell	Neutral, product specific
Colour	White (whiteness max 95 kette model C 100-3)
Taste	Product specific
Appearance	Very fine powder

Packing			
Net content	850 kg		
Kind of packing	Big bag		
Packing size (L x W x H)			
Packing/layer	1	Layers/pallet	1

Shelf life	
Storage conditions	Cool and dry in closed bags
Maximum shelf life	24 months after production

Nutritional values (per 100 gram)		(from USDA Database)
Energy	1498 KJ 358 Kcal	
Protein (g)	0.19	
Fat (g)	0.02	Saturated: 0.01 Mono-unsaturated: 0.01 Poly-unsaturated: 0.00
Carbohydrates (g)	87.79	Sugars: 3.35 Poly-saccharides: - %
Dietary fibre (g)	0.9	
Moisture (g)	10.99	
Mineral (mg)	Calcium (Ca): 20 Iron (Fe): 1.58 Potassium(K): 11	Sodium (Na): 1 Phosphor (P): 7 Magnesium (Mg): 1
Vitamins (mg)	Vitamin A: IU/RE Vitamin B1: Vitamin B2:	Niacin: Vitamin B6: Vitamin C:

Analytical properties	
Ashes (%)	0,3
pH	5 - 7 (5% starch solution)
Gelatinize period	From 58°C to 65°C
Viscosity (B.U.)	550 min (40 – 95°C, 6% starch solution by Brabender Viscograph (700 cmg, plate type)
Foreign Matter (ml/100g)	0,1 max
Density g/l	575 +/- 10

Microbiological Properties	
Total Plate Count (cfu/g)	< 100.000
Yeast & moulds (cfu/g)	< 1.000
Bacillus Cereus (cfu/g)	< 5.000
Coliforme (cfu/g)	< 10
St. Aureus (cfu/g)	< 10
Salmonella (cfu/25g)	Absent

Allergy list (+ = present, - = absent and ? = unknown * possible cross contamination)			
Cow's milk protein	-	Peanuts/groundnuts (-derivatives)	-
Lactose or milk sugar	-	Peanutoil	-
(Chicken) egg	-	Sesame	-
Soya protein (-derivatives)	-	Sesame-oil	-
Soya oil	-	Glutamate (added E620-E625)	-
Gluten	-	Sulfite (E220-E228)	-
Wheat	-	Benzoic acid/Parabens (E210-E213)	-
Rye	-	Azo-colours E102, E110, E122, E123, E124, E128, E129, E151, E154, E155	-
Beef (-derivatives)	-	Tartrazine (E102)	-
Pork (-derivatives)	-	Cinnamon	-
Chicken (-derivatives)	-	Vanillin	-
Fish	-	Coriander	-
Shell-fish	-	Celery	-
Corn /Maize (-derivatives)	-	Umbelliferae	-
Cocoa	-	Carrot	-
Yeast	-	Lupine	-
Pulses	-	Mustard	-
Nuts (-derivates)	-	Mollusc (- derivates)	-
Nut-oil	-		

Acceptable for:	
Vegetarians	Yes
Vegans	Yes
Lacto-vegetarians	Yes
Kosher-certified	Yes
Halal-certified	Yes
NOP-certified	Yes
Ecosocial	No

Use	Manioc starch/tapioca thickens translucent. It is used in soups and porridges.
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