

NATIONAL FRIGEX® HV 06821300

NATIONAL FRIGEX® HV modified starch is derived from tapioca. This starch is extremely stable under low temperature storage conditions. This product is produced under Ingredion Incorporated's TRUETRACE® Identity Preserved Program for non-GM products.

Chemical and Physical Properties

	Min.	Max.
Moisture, %	-	15.0
pH (20% w/w slurry)	4.8	7.2
Viscosity (CML-M106)		
End, MVU	650	1150

Physical Appearance Typical White to Off-White Color Form Fine Powder

Screen Test	Typical
% thru U.S.S. #100	>95
% thru U.S.S. #200	>85

Microbiological Limits

Initial testing is done on a single composite sample against a limit of m. If result is above m, the three class sampling and acceptance below is used.

	n	C	m	M
Total Plate Count/g	5	3	10,000	100,000
Yeast/g	5	3	200	1,000
Mold/g	5	3	200	1,000
Enterobacteriaceae	5	3	100	1,000
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Where n = # of samples tested; c = maximum allowable number of results between m and M; m = upper target limit; M = maximum acceptable value.

E. coli	Negative
Salmonella	Negative

Nutritional Data/100 g	Typical
Calories	352
Calories from fat	1
Total Fat, g	<0.1*
Cholesterol, mg	0
Sodium, mg	39
Total Carbohydrate, g	87.9
Dietary Fiber, g	<0.1*
Total Sugars, g	<0.1*
Added Sugars, g	0
Other Carbohydrate, g	87.9
Protein, g	0.1
Vitamin D, mcg	0
Calcium mg	19
Iron, mg	0.4
Potassium, mg	<10*
Ash, g	<0.1*

^{*} Not present at level of quantification.

Certification

Kosher pareve Halal

Packaging and Storage

NATIONAL FRIGEX® HV modified starch is packaged in multi ply kraft paper bags with net weight of 50 lbs. NATIONAL FRIGEX® HV modified starch should be stored in a clean, dry area at ambient temperature and away from heavily aromatic material.

Shelf Life

The best before date for NATIONAL FRIGEX® HV modified starch is 24 months from the date of manufacture.

Regulatory Data

Source **Tapioca**

United States

Meets FCC (Food Chemical Codex) requirements. Food Starch-Modified Labeling

Canada

products.

CFDA Regulation B.16.100, Table XIII Labeling Modified Tapioca Starch

Features and Benefits

Cooked preparations of NATIONAL FRIGEX® HV modified starch are smooth, short-textured, and heavybodied. It develops viscosity at a relatively low temperature and can be thoroughly cooked by heating to 180°F (82°C) and holding for 10 minutes. It is ideally suited for use in indirect high temperature short time processes and in some ultra high temperature processed products. NATIONAL FRIGEX® HV modified starch is also well suited for application in products that are subjected to extended low temperature storage. This product is produced under Ingredion Incorporated's

TRUETRACE® Identity Preserved Program for non-GM

Effective Date: May 3, 2023 Next Review Date: May 3, 2026

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Westchester, Illinois 60154 LISA 708.551.2600

5 Westbrook Corporate Ctr. 1600 - 90 Burnhamthorpe Rd., West Mississauga, Ontario L5B 0H9 Canada 905.281.7950

www.ingredion.us

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