

Supplier	Onset Worldwide LLC		Written By	Sara Morrison
Address	843 State Route 12, Suite B15, Frenchtown, NJ 08825		Version Date	1/20/25
Document Title	Finished Good Specification Sheet - Onset Worldwide - Tapioca Starch		Version #	5
PRODUCT SUMMARY				
Product	Native Tapioca Starch - Conventional			
SKU	TA101			
Ingredients	Tapioca Root			
Processing Aids	Water for washing (India) Sodium metabisulphite (Thailand, Laos)			
Origin	Thailand, Laos, India			
Certifications	Kosher	<input checked="" type="checkbox"/>		
Packaging	50 LB bags	<input checked="" type="checkbox"/>		
	25 KG bags	<input checked="" type="checkbox"/>		
	850 Kg	<input checked="" type="checkbox"/>		
Shelf Life	24 months - re-test after 24 months			
Storage Recommendations	Store in its original, closed packaging, in dry and dark conditions. You are advised to keep product at or below (18°C or 65°F), and below 70% relative humidity.			
Label Sample	Product Name Lot Number Net Weight:			
Ready to Eat Consideration	Not Ready to Eat (NRTE)			
PHYSICAL & MICROBIOLOGICAL				
Appearance	A white to off-white powder with a natural odor and test			
Taste and Odor	Must be typical			
Moisture	≤ 13 %			
E. Coli	< 10 cfu/g	BAM (2017), Chapter 4 or equiv.		
Salmonella	Absent in 25g	ISO 6579-1: 2017 (E) or equiv		
Starch	> = 85%	EC Method		
pH	5.0-7.0	AOAC (2016) 943.02		
Ash Content	≤ 0.2 %	AOAC (2016) 923.03		
Pulp	≤ 0.2 cc	50 g Sieve test 140 mesh		
Whiteness	≥ 90 %	Kett-C-130		
Viscosity	≥ 700 Bu 150 -300 Cp	6% DS by Brabender ISI17-1e		
Fineness	≥ 99%	Sieve pass 100 mesh		
Sulphur Dioxide	30 ppm max			
STATEMENTS				
Intended Use Statement	This product is intended as a food ingredient in food preparations for human consumption. It is suitable for vegetarians, vegans, and lactose-intolerant individuals.			
Non-GMO Statement	No genetically modified organisms (GMO's) or transgenic breeding methods were used in the production of these crops. GMOs are tested yearly via OMIC In-house method CH-127-TM-based on ISO 21569:2005, AMENDMENT 1:2013			
Residue Limit Statement	This product complies with FDA limits on Pesticides-Herbicides, as well as Prop 65 California Law.			

Halal Statement	This product was not processed with animal nor animal by-products. This product was not processed with alcohol. This product has not come in contact with any meat nor dairy products.
Non-Irradiated Statement	This product is non-irradiated. It has not been exposed to radiation as a kill step.
Natural Statement	This product is 100% natural. There are no added ingredients.
Food-Grade Packaging Statement	The packaging supplied by our vendors is made of food-grade material.
Regulatory Statement	<p>Any additional testing required by the customer is the responsibility of the customer, or the customer must inform Onset Worldwide, in writing, prior to purchase. Additional costs may apply.</p> <p>Onset Worldwide makes no claim nor warranty to any testing not included on the COA. Testing on the COA is conducted using a representative sample, and the results may vary throughout the lot.</p> <p>Raw Product Disclaimer. If any Product is listed as a raw product (and not “ready to eat” or “RTE”), the following disclaimer shall apply (and supersede any disclaimer or limitation of liability on the face of a Sales Contract). A raw product (1) is not safe to consume as is, (2) may contain harmful pathogens that can cause serious illness if consumed as is, and (3) must be further processed to kill pathogens before it is safe to consume. Seller hereby disclaims any warranties for the raw product that is used as “as is” or “ready to eat” and shall not have any liability for, or attributable to, the raw product that is used as “as is” or “ready to eat”, including but not limited to, the purchase, receipt, storage, handling, use, resale or recall of the raw product that is used “as is” or “ready to eat” by buyer or its customers or consumers.</p>
Gluten Statement	Onset Worldwide certifies that this product has not come into contact with gluten nor products containing gluten during processing, packaging, and storing. Any gluten testing required by the customer is the responsibility of the customer, or the customer must inform Onset Worldwide, in writing, prior to purchase. Additional costs may apply. See matrix below for more information.
Continuing Guarantee	Onset Worldwide warrants that any product delivered to the direct customer are not adulterated or misbranded, within the meaning of the FDCA as well as other applicable laws and regulations.
No Artificial Statement	Onset Worldwide certifies to the best of our knowledge and belief that this product contains no artificial flavor, no artificial color, and no artificial preservative.
Vegan Statement	<p>We hereby declare that this product:</p> <p>1) Contain(s) no animal ingredients or animal by-products (including honey and sugar refined with bone char); 2) Use(s) no animal ingredient or by-product in the manufacturing process; and</p> <p>3) Is(are) not being tested on animals by any company or independent contractor.</p>
Hormone Free	This product was not derived from animal sources, and is therefore hormone free.
Non-Sewage Sludge Statement	This product has not been grown with sewage sludge.

ALLERGEN MATRIX

	Present in Ingredient	Present in other products processed on the same line - at Onset Worldwide?	Present in the same facility - at Onset Worldwide?	Present in other products processed on the same line at Origin Supply?	Present in the fields where product was grown?
SHELLFISH, CRUSTACEAN, SEAFOOD, OCEAN DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO

FISH, FRESH WATER OR OCEAN, DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO
DAIRY OR DAIRY DERIVATIVES, BYPRODUCTS, INCLUDING LACTOSE	NO	NO	NO	NO	NO
EGG PRODUCTS OR EGG DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO
PEANUTS OR DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO
SOY, SOY BASED PRODUCTS OR DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO
TREE NUTS, NUT PRODUCTS, DERIVATIVES, BYPRODUCTS	NO	NO	NO	NO	NO
WHEAT OR WHEAT DERIVATIVES, BYPRODUCTS, OR OTHER CEREALS CONTAINING GLUTEN	NO	NO	NO	NO	NO
COCONUT PRODUCTS	NO	NO	NO	NO	NO
SESAME SEEDS AND PRODUCTS THEREOF	NO	NO	NO	NO	NO
SULPHUR DIOXIDE AND SULPHITES MORE THAN 10MG/KG OR 10MG/LITER EXPRESSED AS SO2	YES* *SO2 control at 30 ppm max in native tapioca starch food grade and 10 ppm max in native tapioca starch low SO2. Before release product, it is analyzed SO2 for ensure our product not have SO2 over limit.	NO	NO	Yes	NO
MUSTARD & DERIVATIVES	NO	NO	NO	NO	NO

NUTRITIONALS*

*Results vary per lot

Based on	100g
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Calories	347 g
Total Fat	0 g
Saturated Fat	0 g
Trans Fat	0 g
Cholesterol	ND
Sodium	5.72 mg
Total Carbohydrate	86.8 g
Dietary Fiber	0.53 g
Total Sugars	ND
Added Sugars	0
Protein	ND
Vitamin D	ND
Calcium	26.0 mg
Iron	0.96 mg
Potassium	18.3 mg

Food Fraud - Assessment					
Ingredient/ Raw Material	Product Description	Historic Incidents of Fraud?	Emerging concerns of Fraud?	Market size	Price of Product
Tapioca Starch	Conventional	Yes - Tapioca starch adulterated with dolomite has been sold in markets (Dolomite is a mineral rock), and limestone powder. More commonly, Tapioca Starch is used as an adulterant in other common starches (potato, corn, wheat).	Ongoing concerns of food fraud for financial gain	Medium and growing	Product is not considered to be expensive
Price Fluctuations	Geographic Areas	Supply Chain Complexity	Supply Chain Audits	Routine Testing Conducted?	Likelihood of Fraud Occurring?
We have not experienced frequent large fluctuations.	Thailand, Laos, India	Supply chain is reasonably simple and short	Supplier is BRC	Microtesting is conducted routinely, but no identity testing on product	Unlikely, with current suppliers
Audit Strategy	Supplier Relationship	Supplier History of Issues	Susceptibility of QA Methods and Specs	Testing Frequency	Geopolitical Considerations

Medium- Low. All suppliers audited.	Low - new relationship for us, but a large customer has been doing business with them for years.	Low – No known issues.	Medium- Low. Product tested for requirements per spec.	Medium- Low. Every lot tested. COA issued.	Medium - sources from economically challenged areas
Fraud History	Economic Anomalies	Likelihood Food Fraud to Occur			
Medium - known concerns	Low – Nothing unusual.	Medium			
Version History					
Date	Version	Change	Approval		
8/30/21	1	Original	Sara Morrison		
1/4/22	-	Reviewed for accuracy	Sara Morrison		
1/13/22	2	Updated name from "Tapioca Starch" to "Native Tapioca Starch - Conventional". Changed Whiteness % from 92 min to 90 min to accomodate new supplier spec	Sara Morrison		
1/24/22	3	Added Sodium metabisulphite as a processing aid.	Amanda Buchel		
2/8/22	4	Added sulphur dioxide testing	Sara Morrison		
12/12/22	-	Reviewed for accuracy	Amanda Buchel		
1/8/24	-	Reviewed for accuracy	Amanda Buchel		
1/20/25	5	Reviewed for accuracy; Updated Storage Recommendations, COO, Salmonella	Amanda Buchel		
3/24/25	5.1	Specified the COOs per origin	Amanda Buchel		
6/2/25	5.2	Updated E. Coli from <3 MPN/g to < 10 cfu/g	Amanda Buchel		
6/10/25	5.3	Added another Viscosity option for specifications.	Amanda Buchel		