



20802 Kensington Blvd Lakeville, MN 55044

All information contained in this document is confidential and the property of Post Consumer Brands and cannot be given to any third party without the written consent of Post Consumer Brands.

THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION. Its use is restricted to employees with a need to know and third parties with a need to know and who have signed a non-disclosure agreement. This document contains trade secrets and/ or financial information considered by Company to be PRIVILEGED AND CONFIDENTIAL and exempt therefore from disclosure under 5 USC 552 (b) (4).

## Ingredient Specification Form

Specification Title:	Fructose Crystalline (Bag) - 15009	Specification No. SP-0085 Revision: J
<i>Document is in the Approval Process, and requires 1 approval(s)</i>		
Document Type : FCC - Agricultural Based Ingredient Specification	Retention Period : 3 - Year(s) Review Period - 365 Days	

### Ingredient Information :

Classification : ING	Description : Sugars and Sweeteners	Product Line : CPT
Kosher: Pareve	Organic: No	GMO: Yes
Allergen: None	IRF Type: 3 - Low Risk	Special Requirements : None
Product Type : RTE		

### 1.0 General Information :

<b>a. Description</b>
Fructose Crystalline (Bag) - 15009 is a monosaccharide sweetener obtained by the inversion of sucrose by means of the enzyme invertase or by the isomerization of corn syrup. The fructose is crystallized, dried and milled to produce a dry white crystalline product.
<b>b. Ingredient Statement</b>
Fructose.
<b>c. General Requirements</b>
<ol style="list-style-type: none"><li>Supplier warrants and guarantees to Post Consumer Brands that all articles comprising each shipment or other delivery to Post Consumer Brands shall conform to the applicable provisions of the Food, Drug and Cosmetic Act, as amended and all other applicable laws, regulations, requirements and various programs administered by the Food and Drug Administration, the United States Department of Agriculture, and any state or local food or drug laws then in effect, including California Proposition 65 (excluding naturally occurring levels). Moreover, no product shipped by Supplier shall be adulterated or misbranded within the meaning of the Act. A "Continuing Product Guarantee" shall be furnished to Post Consumer Brands</li><li>The material shall conform to the quality parameters specified herein and shall be produced, packaged, and stored in accordance with Good Manufacturing Practices (21: CFR, Part 110). Material failing to perform satisfactorily under plant conditions is subject to rejection.</li><li>Post Consumer Brands reserves the right to inspect the supplier's facilities at reasonable times with reasonable advance notice. Qualification as an approved supplier may be</li></ol>

contingent upon inspection of the supplier's manufacturing facilities.

- IV. No change to the formula, varietal mix, grade, composition, and/or processing that may impact the functional or quality characteristics of the material, shall be permitted without prior evaluation and written authorization by Post Consumer Brands.
- V. No change in manufacturing facilities from those listed on the Food Component Specification form at the time of ingredient approval shall be permitted without prior evaluation and written authorization by Post Consumer Brands.
- VI. Acceptance of the shipment shall be contingent upon compliance with specifications. Materials failing to meet all specifications (previously provided to and accepted by supplier in writing) are subject to rejection and will be returned at the supplier's expense. Noncompliance issues (i.e. damaged product, temperature) involving Post Consumer Brands contract carriers may absolve the supplier of return expenses.
- VII. A Bill of Lading (BOL) shall accompany each shipment. The supplier shall identify the lot number(s), corresponding quantities, and tamper evident seal numbers on each lot on the BOL (does not include LTL shipments - for LTL shipments, include information on pallet packing list). The shipment should be comprised of a single lot and shall not exceed more than three lots. Suppliers shall provide information for interpreting manufacturer's date codes. The supplier shall also list on the BOL the Post Consumer Brands purchase order number and the Post Consumer Brands item number.
- VIII. All materials delivered to Post Consumer Brands are required to have the trailer/railcar sealed by the supplier with tamper-evident seals. For partial shipments via a truckload carrier (multi-stop shipments), the trailer shall be sealed. Upon arrival at the next stop, the seal will be broken and the next supplier seal will be applied after loading. Any broken seal from stops in-transit, must be retained and presented to Post Consumer Brands employees at delivery. All seal numbers must be documented on the accompanying bill of lading and must match those verified upon receipt at Post Consumer Brands. For shipments via a Less Than Truckload (LTL) carrier (where pick-ups and deliveries move through a terminal network), seals are preferred but not required. If seals are used on LTLs, the seal requirements (as listed above) for multi-stop shipments shall apply.
- IX. All trailers/railcars carrying Post Consumer Brands materials are to be clean, odorless, and defect free. No trailer/railcar may convey materials deemed potentially hazardous, such as asbestos, garbage, or biohazard materials. Additionally, this product shall be shipped in compliance with the Department of Transportation regulations, Title 49, Subchapter C, Parts 171-177.
- X. Materials shall be packaged in suitable, tamper-evident containers or sealed to preserve and protect product integrity, during shipping and storage. Containers must be labeled in compliance with all applicable regulations, including clear identification of the material, ingredient statement, manufacturer's or distributor's name, location, lot number, and net weight. Damaged containers, which fail to provide protection, integrity, and quality, will be rejected.
- XI. If applicable, Kosher product applications must conform to Kosher dietary laws. Any Kosher requirements will be identified in 2.0 "Special Requirements" of this document.
- XII. Imported materials must have clearance from US Customs and pass all FDA and USDA inspections prior to shipment to Post Consumer Brands.
- XIII. The material shall conform to all FDA regulations relating to genetically modified commodities specifically insuring that the material has been approved for human consumption.
- XIV. The material shall conform to all FDA regulations relating to allowable pesticide residues, including assurance that only those pesticides registered for use with the commodity have been applied.
- XV. The supplier and/or carrier contracted by Post Consumer Brands shall ensure that a chain of custody is maintained when a container seal is broken for inspection by a government agency. If product is sampled by said government agency, predetermined quarantine and release procedures must be followed, which includes notification to Post Consumer Brands of sampling. Sampled containers can only be released to Post Consumer Brands after receipt of

acceptable test results by supplier.

- XVI. Suppliers shall provide a date of manufacture for all materials shipped to Post Consumer Brands. Materials must have at least 50% of shelf life remaining when received by Post Consumer Brands.
- XVII. The supplier shall coordinate shipments to assure individual lot numbers shipped to Post Consumer Brands will not exceed three months of usage in any one Post Consumer Brands manufacturing facility. Post Consumer Brands Strategic Sourcing will provide necessary requirements to the supplier.
- XVIII. Supplier shall agree to follow First In First Out (FIFO) / First Expired First Out (FEFO) warehousing practices.

**d. Physical Properties**

Property	Acceptance Criteria	Analysis Method
Appearance	Free flowing crystals	Sensory Evaluation
Color	White	Sensory Evaluation
Color (Analytical)	30.0 IU/RBU Maximum	Supplier Test Method 22720
Flavor	Characteristic sweet, bland taste, free from off flavors (Comparable to standard)	Sensory Evaluation
Odor	Characteristic bland odor, free from off odors (Comparable to standard)	Sensory Evaluation
Granulation: Retain on a USS # 20 sieve Retain on a USS # 30 sieve Retain on a USS # 40 sieve Retain on a USS # 60 sieve Through a USS # 100 sieve	0% - 0.3% 0% - 1.0% 0% - 20.0% 45.0% - 75.0% 0% - 8.0%	ASTM B214

**e. Chemical Properties**

Property	Acceptance Criteria	Analysis Method
Moisture	0.10% Maximum	AOAC 925.45
Fructose	99.5% Minimum	FCC
Ash	500 ppm or 0.05% Maximum	AOAC 900.02
Chloride	180 ppm or 0.018% Maximum	FCC
Sulfate	250 ppm or 0.025% Maximum	FCC
Heavy Metals (as Pb)	5 ppm Maximum	USP
Arsenic	1 ppm Maximum	FCC
Lead	0.1 ppm Maximum	FCC
Sulfur Dioxide	9 ppm Maximum	AOAC 990.31

**f. Microbiological Properties**      **2 Class Sampling Plan**

Property	Acceptance Criteria	*Analysis Method & Sample Size
Aerobic Plate Count	< 5000 cfu/g	AOAC 966.23 (11 grams)
Yeast	< 100 cfu/g	FDA BAM (11 grams)
Mold	< 100 cfu/g	FDA BAM (11 grams)
E. Coli	< 3 cfu/g	AOAC 966.23 (11 grams)
Salmonella	Negative	AOAC 966.08 (375 grams)
Staphylococcus aureus	< 10 cfu/g	AOAC 975.55 (11 grams)

**\*Any approved FDA BAM , or AOAC method can be used for microbiological analysis .**

Additional notes:

Ingredients shall be tested using a composite sample.

The composite sample shall be made of randomly selected samples from the ingredient being tested .  
The number of required samples (n) to achieve the composite is based on the square root of the number of discrete units in the lot, up to a maximum sample of 15.

## 2.0 Special Requirements :

### Packaging:

Product shall be packed and shipped in 50 lb (22.7 kg) multi-walled bags stacked on 40" x 48" pallets. Unless otherwise specified, all containers must be stacked on 40" x 48" Grade A pallets. Pallets shall be stretch wrapped and include a bottom corrugated slip sheet and a top corrugated slip sheet or top cap. At time of receipt at Post Consumer Brands, all pallets must meet the following criteria:

- A. Inbound ingredients and packaging components shall be on Grade A hardwood pallets,
- B. There shall not be any broken or split boards or exposed nails,
- C. There shall not be any metal plate repairs,
- D. The pallets shall be dry and free of any visible mold,
- E. The pallets shall not have any debris on them and must be free of stains and discoloration,
- F. There shall not be any off odors emanating from the pallets,
- G. There shall not be any pest evidence, including bird feces and/or feathers, rodent droppings, insects or webbing.

### Palletized Labeling of Unit Packaging:

In addition to the individual package label, a pallet label shall be applied with the following information :

- A. All food ingredient components delivered to Post Consumer Brands in palletized unit packaging shall be labeled using an 8 ½ by 11 inch or larger labeled area. This label must contain the ingredient description, item number, and purchase order number. The ingredient description and the MOM item number must be at least one inch in height and in bold lettering.
- B. If the ingredient is packaged in a drum or tote, Post Consumer Brands requires one label per container.
- C. For palletized units, one label shall be placed on the bottom layer of each side of the pallet.

### Receiving Requirements:

Reference SOP-0769 [Receiving Procedure for Ingredients and Packaging Materials] as it identifies food safety as well as other receiving requirements for delivery of ingredients to Post Consumer Brands.

Storage Temperature: Store in a dry, odor free area at ambient temperatures.

Shelf Life: 365 days from date of manufacture.

Kosher Requirements: This ingredient is a certified kosher product. It requires supplier submittal of an annual recertification letter/certificate to Post Consumer Brands. All shipments sent to Post Consumer Brands shall be in compliance with all applicable kosher requirements for this ingredient (i.e. the specific manufacturer, specific plant location, specific processing line, kosher labeling requirements, etc.) as stated in the annual kosher letter/certificate.

### COA Requirements :

Each COA submitted to Post Consumer Brands **must** include the following:

1. Vendor's Description of the Commodity/Ingredient;
2. Post Consumer Brands Item Number (listed in the Title section of this specification);
3. Post Consumer Brands Purchase Order Number;
4. Vendor's Ingredient Lot Number. (If a Post Consumer Brands Purchase Order number is being used as the Lot Number - i.e. bulk shipments - specify this on the Certificate of Analysis.)
5. Analysis required shall be submitted on a Per Lot basis, prior to receiving the shipment, unless otherwise indicated below.
  - **Physical Properties**  
Flavor, Odor, Granulation
  - **Chemical Properties**  
Moisture, Fructose, Ash, Chloride, Sulfate, Heavy Metals and Lead
  - **Microbiological Properties**  
No Microbiological Tests Required

6. Name(s) and phone number(s) of Contact Person(s), within vendor's company, who can answer questions and resolve issues regarding the Certificate of Analysis on 24-hour basis.
7. No Microbiological Tests Required facility Ship-to Address.

**E-mail COA directly to the Post Consumer Brands facility where the ingredient will be shipped .  
E-mail addresses for each Post Consumer Brands facility are as follows :**

Campbell Mill and AMES Mill in Northfield, MN orders:  
CB.NFL\_COA@postholdings.com

Tremonton, UT orders:  
CB.TRM\_COA@postholdings.com

St. Ansgar, IA orders:  
CB.SAN\_COA@postholdings.com

Asheboro, NC orders:  
CB.ASH\_COA@postholdings.com

Battle Creek, MI orders:  
PostFoods-BattleCreek-COA@postholdings.com

Jonesboro, AR orders:  
CofA@postholdings.com

Niagara Falls, Ontario, Canada orders:  
postfoods-niagara-coa@postholdings.com

Standard Functional Foods Group (SFFG), Nashville, TN:  
coa@standardcandy.com

We hereby agree to conform to this specification for all deliveries made to the Post Consumer Brands Company .	
Supplier Representative Printed Name	Date
Supplier Representative Signature	Phone Number
Title	
Company Name	