

TECHNICAL DATA



<b>PRODUCT NAME:</b>	FibRefine L90 Tapioca Syrup
<b>ICON FOODS PRODUCT CODE NUMBER:</b>	1808
<b>DESCRIPTION:</b>	<p>The clean label trend is being driven by consumer demand, and the development of sophisticated food technologies that have simplified product formulas. However, developing consumer-friendly, food and beverages with the desired clean labels on the packages can a challenge for formulators. This is where FibRefine L90 Tapioca Syrup comes in. Balancing calories and taste are key, because consumers may want reduced sugar, but they will not sacrifice taste to get it. FibRefine L90 Tapioca Syrup gives formulators the ability to replace sugars and still provide tasty consumer-pleasing products. FibRefine L90 Tapioca Syrup provides solutions for significant sugar reduction and noticeable calorie reduction, depending on the application.</p> <p>FibRefine L90 Tapioca Syrup is derived from Non-GMO Cassava root, a tuber used as a food staple in many parts of the world. Cassava is a native vegetable of South America that grows in tropical and subtropical regions.</p> <p>With more “friendly sounding” ingredient options, FibRefine L90 Tapioca Syrup can help position your products as clean and simple.</p>
<b>COMPOSITION:</b>	Digestion Resistant Maltodextrin (DRM) Liquid from Tapioca.
<b>COUNTRY OF ORIGIN:</b>	Indonesia
<b>ALLERGENS:</b>	FibRefine L90 Tapioca Syrup does not contain any commonly known sources of allergens. Labeling is not required under the FDA Food Allergen Labeling and Consumer Protection Act of 2004 or EU Directive 2007/68/EC
<b>KOSHER:</b>	FibRefine L90 Tapioca Syrup is kosher certified.
<b>BSE:</b>	No animal derived ingredients are used in the production of FibRefine L90 Tapioca Syrup.
<b>LABELING:</b>	FibRefine L90 Tapioca Syrup complies with limits established for residual pesticides as per USP <561>. FibRefine L90 Tapioca Syrup may be labeled as a “natural” ingredient under the regulations of the U.S. FDA and FTC.
<b>PACKAGING &amp; RECOMMENDED STORAGE CONDITIONS:</b>	FibRefine L90 Tapioca Syrup comes in a 1300-kg IBC Tote. FibRefine L90 Tapioca Syrup should be stored in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated. Shelf life is 24 months when stored under recommended conditions.
<b>REMARKS:</b>	This item is a raw material for commercial use only.

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TECHNICAL DATA (CONT.)

PRODUCT NAME: FibRefine L90 Tapioca Syrup



PARAMETERS	SPECIFICATIONS	METHODS
APPEARANCE	Clear transparent liquid	Visual Inspection
COLOR	Yellow to dark yellow	Visual Inspection
TASTE	Plain, slightly sweet, typical	ISO-Sweet/Organoleptic
ODOR	Odorless	Organoleptic
FOREIGN MATERIALS	No visible impurities	Organoleptic
BRIX	74 – 76%	Refractometer
pH (10% SOLUTION)	3.5 – 7.0	SNI 7599.2010
PROTEINS (FACTOR 6.25)	≤ 0.3	AOAC 955.04
TOTAL DIETARY FIBER (DB)	≥ 90g/100g	AOAC 2001.03
TOTAL SUGARS (DB)	≤ 3g/100g	AOAC 980.13
FAT	≤ 0.01g/100g	AOAC 2000.18
ASH	≤ 1g/100g	AOAC 900.02
LEAD (Pb)*	≤ 0.5 mg/kg	USP <231>
ARSENIC (As)*	≤ 0.3 mg/kg	USP <231>
CADMIUM (Cd)*	≤ 0.1 mg/kg	USP <231>
MERCURY (Hg)*	≤ 0.01 mg/kg	USP <231>
ALUMINUM (Al)*	≤ 5 mg/kg	SNI 7599:2010
TOTAL PLATE COUNT	≤ 1000 cfu/g	BAM/FDA Ch.03
ENTEROBACTERIACEAE	< 10 cfu/g	ISO 21528-2
COLIFORM	≤ 3 MPN/g	ISO 4831
<i>E. COLI</i>	≤ 10 MPN/g	ISO 7251
SALMONELLA	Negative/25g	ISO 6579
YEAST	≤ 100 cfu/g	BAM/FDA Ch18
MOLD	≤ 100 cfu/g	BAM/FDA Ch18

\*Tested once a year



*Thomas J. King*  
Thomas J. King  
Icon Foods, Inc.

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**CERTIFICATE OF ANALYSIS**

**PRODUCT NAME:** FibRefine L90 Tapioca Syrup



**LOT CODE:** 1808 UU YY MM DD BB    **MANUFACTURE DATE:** MM/DD/YYYY    **BEST BY:** MM/DD/YYYY

**INGREDIENTS:** Digestion Resistant Maltodextrin (DRM) Liquid from Tapioca.

ITEMS	STANDARD	RESULTS	TEST METHOD
APPEARANCE	Clear transparent liquid	Complies	Visual Inspection
COLOR	Yellow to dark yellow	Complies	Visual Inspection
TASTE	Plain, slightly sweet, typical	Complies	ISO-Sweet/Organoleptic
ODOR	Odorless	Complies	Organoleptic
FOREIGN MATERIALS	No visible impurities	Complies	Organoleptic
BRIX	74 – 76%	Complies	Refractometer
pH (10% SOLUTION)	4.5 – 5.8	Complies	SNI 7599.2010
PROTEINS (FACTOR 6.25)	≤ 0.3	Complies	AOAC 955.04
TOTAL DIETARY FIBER (DB)	≥ 90g/100g	Complies	AOAC 2001.03
TOTAL SUGARS (DB)	≤ 3g/100g	Complies	AOAC 980.13
FAT	≤ 0.01g/100g	Complies	AOAC 2000.18
ASH	≤ 1g/100g	Complies	AOAC 900.02
LEAD (Pb)*	≤ 0.5 mg/kg	Complies	USP <231>
ARSENIC (As)*	≤ 0.3 mg/kg	Complies	USP <231>
CADMIUM (Cd)*	≤ 0.1 mg/kg	Complies	USP <231>
MERCURY (Hg)*	≤ 0.01 mg/kg	Complies	USP <231>
ALUMINUM (Al)*	≤ 5 mg/kg	Complies	SNI 7599:2010
TOTAL PLATE COUNT	≤ 1000 cfu/g	Complies	BAM/FDA Ch.03
ENTEROBACTERIACEAE	< 10 cfu/g	Complies	ISO 21528-2
COLIFORM	≤ 3 MPN/g	Complies	ISO 4831
E. COLI	≤ 10 MPN/g	Complies	ISO 7251
SALMONELLA	Negative/25g	Complies	ISO 6579
YEAST	≤ 100 cfu/g	Complies	BAM/FDA Ch18
MOLD	≤ 100 cfu/g	Complies	BAM/FDA Ch18

\*Tested once per year

Oregon department of agriculture, food safety division establishment #88294  
 FDA food manufacturing facility #xxxxxxx6608

**ISSUED BY:**

Remarks: This item is a raw material for commercial use only.

Storage: Store in a cool & dry location, not to exceed 85-degree Fahrenheit.  
 For long term storage, please keep refrigerated.

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## COUNTRY OF ORIGIN STATEMENT

Oregon Department of Agriculture, Food Safety Division Establishment #88294

Compliant with JECFA guidelines

This letter is to certify that FibRefine L90 Tapioca Syrup sold by Icon Foods, Inc. at the Portland, Oregon, USA facility, is manufactured in Indonesia.

If you have any questions, please contact Icon Foods Quality Assurance Division at 310-455-9876.

A handwritten signature in blue ink, appearing to read "TJ King".

Thomas J. King  
Icon Foods, Inc.

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**INGREDIENT STATEMENT****PRODUCT INGREDIENT LIST****PRODUCT NAME:** FibRefine L90 Tapioca Syrup**PRODUCT NUMBER:** 1808**INGREDIENTS    % RANGE COMPOSITION**

INGREDIENTS	% RANGE COMPOSITION
Digestion Resistant Maltodextrin (DRM) Syrup from Tapioca.	100%

**MANUFACTURING FACILITY:****ICON FOODS, INC.**

19250 NE PORTAL WAY

PORTLAND, OR 97230

P: 310.455.9876

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## 100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: FibRefine L90 Tapioca Syrup

### NUTRITIONAL FACTS

Calories	80 kcal	
Total Fat	0 g	0%
Saturated Fat	0 g	0%
Trans Fat	0 g	
Cholesterol	0 mg	0%
Sodium	0 mg	0%
Total Carbohydrate	75 g	27%
Dietary Fiber	68 g	243%
Total Sugars	2 g	
Includes 0g Added Sugars	0%	
Protein	0 g	
Vitamin D	0 mcg	0%
Calcium	0 mg	0%
Iron	0 mg	0%
Potassium	0 mg	0%

\*The % Daily Value tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

### CARBOHYDRATES

### AMOUNTS PER 100G

Total Carbohydrate	75.0g
Dietary Fiber	67.5g
Starch	0.0g
Sugars	2.2g
Sugar Alcohols	0.0g

### FATS & FATTY ACIDS

### AMOUNTS PER 100G

Total Fat	0.0g
Saturated Fat	0.0g
Monounsaturated Fat	0.0g
Polyunsaturated Fat	0.0g
Total Trans Fatty Acids	0.0g

### PROTEIN & AMINO ACIDS

### AMOUNTS PER 100G

Protein	0.30g
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### CARBOHYDRATES

### AMOUNTS PER 100G

Vitamin A	0.0 IU
Vitamin C	0.0 mg
Vitamin D	0.0 IU
Vitamin E (Alpha Tocopherol)	0.0 mg

### MINERALS

### AMOUNTS PER 100G

Calcium	0.0 mg
Iron	0.0 mg
Potassium	0.0 mg
Sodium	0.0 mg

### OTHER

### AMOUNTS PER 100G

Water	≤ 26.0 g
Ash	≤ 1.0 g

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**SAFETY DATA SHEET**

**PRODUCT NAME:** FibRefine L90 Tapioca Syrup

**ICON FOODS, INC. – USA | PRODUCT #: 1808**

**CAS REGISTRY NUMBER:** --

**OREGON DEPARTMENT OF AGRICULTURE, FOOD & SAFETY DIVISION ESTABLISHMENT #88294**

**FDA FOOD MANUFACTURING FACILITY #\*\*\*\*\*6608**

**COMPLIANT WITH JECFA GUIDLINES**

**IDENTIFICATION:**

Commercial Name: FibRefine L90 Tapioca Syrup  
 Manufacturer: Icon Foods, Inc.

**COMPOSITION:**

Digestion Resistant Maltodextrin (DRM) Powder from Tapioca.  
 CAS# --  
 Risk Phrases: None  
 Safety Phrases 25-26: Not Mandatory

**HAZARDS:**

Not classified as dangerous according to directive 67/548/EEC or its amendments.

**FIRST AID MEASURES:**

Eye Contact: Wash with water or standard eye wash solution. Seek medical advice if irritation occurs and persists.  
 Oral Ingestion: Essentially edible in small quantity with bland to bitter sweet aftertaste  
 Skin Contact: Wash with water and mild soap.

**FIRE FIGHTING MEASURES:**

Non-combustible and presents no special fire hazard  
 Extinguishing media: N/A  
 Protective Equipment: Standard equipment

**ACCIDENTAL RELEASE MEASURES:**

Absorb into an inert material and scrape up. Remove residue by scrubbing with hot water or detergent solution.

**HANDLING & STORAGE:**

Store in a cool & dry location in ambient conditions, not to exceed 85 degrees Fahrenheit. For long term storage, please keep refrigerated.

**EXPOSURE & PERSONAL PROTECTION:**

In accordance with good industrial practice and handling, use standard eye protection.

**PHYSICAL & CHEMICAL PROPERTIES:**

Physical Form: Syrup	Explosive Properties: --
Color: Yellow to dark yellow	pH (100% Concentrate): --
Odor: --	Oxidizing Properties: --
Boiling Point: --	Vapor Pressure: --
Melting Point: --	Density: --
Viscosity @ 20 degree C: --	Water Solubility: Soluble
Flash Point: --	Other Solubility: In most Basic Food Grade Solvents
Flammability Solid/Gas: --	Partition Coefficient: --
Auto Flammability: --	(Octanol/Water): --
Specific Refractive: --	Explosive Limits: --

**STABILITY & REACTIVITY:**

Thermal Decomposition: Stable under normal conditions of use.

**TOXICOLOGICAL DATA:**

Oral: Essentially non-toxic and edible in small quantity.  
 Dermal: Expected to be essentially non-toxic.

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**ECOLOGICAL INFORMATION:**

Inhalation: Slight Ethanolic Sting – irritation

Toxic Effects: None

Eye: Very Mild/Minimal – Not a transient Conjunctival Irritant at 10% concentrate in water (Eyetex classification).

**DISPOSAL CONDITIONS:**

Biodegradation: Expected to be ultimately biodegradable.

Fish Toxicity: No Data.

**TRANSPORT INFORMATION:**

UN Number: N/A

UN Name: Not Assigned

IMDG Code/Class: Not Hazardous

IMDG Code Page No: N/A

ICAO/IATA Air Class: Non-Hazardous

ICAO/IATA Air Class Packing Group: N/A

RID/ADR Class: Non-Hazardous

ADNR Class: Non-Hazardous

**REGULATORY INFORMATION:**

Occupational Exposure Limits: N/A

**OTHER INFORMATION:**

Supplementary Dietary/Food Use: FDA GRAS Status within the USA

Information contained herein as well as any representations made regarding this information are believed to be accurate and reliable however no warranty or guarantee, express or implied, is made regarding information and/or product.

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VERSION HISTORY

VERSION #	DATE	REVISIONS	APPROVAL
2.0	05/02/2025	Updated NFP sugars content per product analysis.	ZN

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