

TECHNICAL DATA



PRODUCT NAME:	FibRefine Soluble Tapioca Fiber L90 Organic
ICON FOODS PRODUCT CODE NUMBER:	1808
DESCRIPTION:	<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 be a challenge for formulators. This is where FibRefine Soluble Tapioca Fiber L90 Organic comes in. Balancing calories and taste are key, because consumers may want reduced sugar, but they will not sacrifice taste to get it. FibRefine Soluble Tapioca Fiber L90 Organic gives formulators the ability to replace sugars and still provide tasty consumer-pleasing products. FibRefine Soluble Tapioca Fiber L90 Organic provides solutions for significant sugar reduction and noticeable calorie reduction, depending on the application.</p> <p>FibRefine Soluble Tapioca Fiber L90 Organic 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 Soluble Tapioca Fiber L90 Organic can help position your products as clean and simple.</p>
COMPOSITION:	Digestion Resistant Maltodextrin (DRM) Liquid from Tapioca.
COUNTRY OF ORIGIN:	Indonesia
ALLERGENS:	FibRefine Soluble Tapioca Fiber L90 Organic 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
KOSHER:	FibRefine Soluble Tapioca Fiber L90 Organic is kosher certified.
BSE:	No animal derived ingredients are used in the production of FibRefine Soluble Tapioca Fiber L90 Organic.
LABELING:	FibRefine Soluble Tapioca Fiber L90 Organic complies with limits established for residual pesticides as per USP <561>. FibRefine Soluble Tapioca Fiber L90 Organic may be labeled as a “natural” ingredient under the regulations of the U.S. FDA and FTC.
PACKAGING & RECOMMENDED STORAGE CONDITIONS:	FibRefine Soluble Tapioca Fiber L90 Organic comes in a 1300-kg IBC Tote. FibRefine Soluble Tapioca Fiber L90 Organic 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.
REMARKS:	This item is a raw material for commercial use only.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

TECHNICAL DATA (CONT.)

PRODUCT NAME: FibRefine Soluble Tapioca Fiber L90 Organic



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.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

CERTIFICATE OF ANALYSIS

PRODUCT NAME: FibRefine Soluble Tapioca Fiber L90 Organic



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

INGREDIENTS: Organic 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
 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.

ISSUED BY:

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

COUNTRY OF ORIGIN STATEMENT

Oregon Department of Agriculture, Food Safety Division Establishment #88294

Compliant with JECFA guidelines

This letter is to certify that FibRefine Soluble Tapioca Fiber L90 Organic 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.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

INGREDIENT STATEMENT**PRODUCT INGREDIENT LIST****PRODUCT NAME:** FibRefine Soluble Tapioca Fiber L90 Organic**PRODUCT NUMBER:** 1818

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

ICON FOODS, INC.

19250 NE PORTAL WAY

PORTLAND, OR 97230

P: 310.455.9876

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: FibRefine Soluble Tapioca Fiber L90 Organic

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
---------	-------

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

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

SAFETY DATA SHEET

PRODUCT NAME: FibRefine Soluble Tapioca Fiber L90 Organic

ICON FOODS, INC. – USA | PRODUCT #: 1818

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 Soluble Tapioca Fiber L90 Organic Manufacturer: Icon Foods, Inc.
COMPOSITION:	Organic 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 Color: Yellow to dark yellow Odor: -- Boiling Point: -- Melting Point: -- Viscosity @ 20 degree C: -- Flash Point: -- Flammability Solid/Gas: -- Auto Flammability: -- Specific Refractive: -- Explosive Properties: -- pH (100% Concentrate): -- Oxidizing Properties: -- Vapor Pressure: -- Density: -- Water Solubility: Soluble Other Solubility: In most Basic Food Grade Solvents Partition Coefficient: -- (Octanol/Water): -- 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.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

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).

Biodegradation: Expected to be ultimately biodegradable.

Fish Toxicity: No Data.

DISPOSAL CONDITIONS:

Dispose of according to local, state, and federal regulations.

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.

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

VERSION HISTORY

VERSION #	DATE	REVISIONS	APPROVAL

The information contained in this bulletin should not be construed as recommending the use of our products in violation of any patent, or as warranties (expressed or implied) of non-infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies, and regulatory review to determine the fitness of Icon Foods products for their particular purposes, product claims, or specific applications.

ITEM #1818	FibRefine Soluble Tapioca Fiber L90 Organic	V1.0	March 16, 2026
------------	---	------	----------------