

TECHNICAL DATA



PRODUCT NAME:	FibRefine P90 Tapioca Fiber
ICON FOODS PRODUCT CODE NUMBER:	1807
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 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 gives formulators the ability to replace sugars and still provide tasty consumer-pleasing products. FibRefine Soluble Tapioca Fiber provides solutions for significant sugar reduction and noticeable calorie reduction, depending on the application.</p> <p>FibRefine Soluble Tapioca Fiber 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 can help position your products as clean and simple.</p>
COMPOSITION:	Digestion Resistant Maltodextrin (DRM) Powder from Tapioca.
COUNTRY OF ORIGIN:	Indonesia, China.
ALLERGENS:	FibRefine P90 Tapioca Fiber 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 P90 Tapioca Fiber is kosher certified.
BSE:	No animal derived ingredients are used in the production of FibRefine P90 Tapioca Fiber.
LABELING:	FibRefine P90 Tapioca Fiber complies with limits established for residual pesticides as per USP <561>. FibRefine P90 Tapioca Fiber may be labeled as a “natural” ingredient under the regulations of the U.S. FDA and FTC.
PACKAGING & RECOMMENDED STORAGE CONDITIONS:	FibRefine P90 Tapioca Fiber comes in a 25 kg bag. FibRefine P90 Tapioca Fiber 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 36 months when stored under recommended conditions.
REMARKS:	This item is a raw material for commercial use only.

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TECHNICAL DATA (CONT.)

PRODUCT NAME: FibRefine P90 Tapioca Fiber



PARAMETERS	SPECIFICATIONS	METHODS
APPEARANCE	Fine to agglomerated powder	Visual Inspection
COLOR	White to slight yellow	Visual Inspection
TASTE	Neutral to slightly sweet	ISO-Sweet/Organoleptic
ODOR	Odorless	Organoleptic
FOREIGN MATERIALS	No visible impurities	Organoleptic
MOISTURE	≤ 6g/100g	SNI 7599:2010
WATER ACTIVITY	< 0.61	Rotronic Water Activity Meter
DEXTROSE EQUIVALENT	≤ 20	Lane Eynon
PROTEINS (FACTOR 6.25)	≤ 0.3	AOAC 955.04
TOTAL DIETARY FIBER	≥ 90g/100g	AOAC 2001.03
TOTAL SUGARS	≤ 10g/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	USP <231>
SULFITES	≤ 10 mg/kg	Titration
CHLORINE	≤ 0.5 mg/kg	Cl by Test Kit
TOTAL PLATE COUNT	≤ 1000 cfu/g	US Pharmacopeia Chapter 60
ENTEROBACTERIACEAE	≤ 10 cfu/g	US Pharmacopeia Chapter 60
SALMONELLA	Negative/25g	US Pharmacopeia Chapter 60
COLIFORM	≤ 3 MPN/g	US Pharmacopeia Chapter 60
YEAST & MOLD	≤ 100 cfu/g	US Pharmacopeia Chapter 60
LACTIC ACID BACTERIA (LAB)	≤ 10 cfu/g	AOAC PTM #041701: Lactic Acid Bacteria



Thomas J. King
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Icon Foods, Inc.

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CERTIFICATE OF ANALYSIS

PRODUCT NAME: FibRefine P90 Tapioca Fiber



LOT CODE: 1807 UU YY MM DD BB **MANUFACTURE DATE:** MM/DD/YYYY **BEST BY:** MM/DD/YYYY

INGREDIENTS: Digestion Resistant Maltodextrin (DRM) Powder from Tapioca.

ITEMS	STANDARD	RESULTS	TEST METHOD
APPEARANCE	Fine to agglomerated powder	Complies	Visual Inspection
COLOR	White to slight yellow	Complies	Visual Inspection
TASTE	Neutral to slightly sweet	Complies	ISO-Sweet/Organoleptic
ODOR	Odorless	Complies	Organoleptic
FOREIGN MATERIALS	No visible impurities	Complies	Organoleptic
MOISTURE	≤ 6g/100g	Complies	SNI 7599:2010
WATER ACTIVITY	< 0.61	Complies	Rotronic Water Activity Meter
DEXTROSE EQUIVALENT	≤ 20	Complies	Lane Eynon
PROTEINS (FACTOR 6.25)	≤ 0.3	Complies	AOAC 955.04
TOTAL DIETARY FIBER	≥ 90g/100g	Complies	AOAC 2001.03
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SULFITES	≤ 10 mg/kg	Complies	Titration
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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:

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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 P90 Tapioca Fiber sold by Icon Foods, Inc. at the Portland, Oregon, USA facility, is manufactured in the following countries: Indonesia, China.

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 P90 Tapioca Fiber****PRODUCT NUMBER: 1807****INGREDIENTS % RANGE COMPOSITION**

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

ICON FOODS, INC.**19250 NE PORTAL WAY****PORTLAND, OR 97230****P: 310.455.9876**

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100G NUTRITIONAL SPECIFICATIONS

PRODUCT NAME: FibRefine P90 Tapioca Fiber

NUTRITIONAL FACTS

Calories	190 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	96 g	35%
Dietary Fiber	90 g	321%
Total Sugars	6 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	96.0g
Dietary Fiber	90.0g
Starch	0.0g
Sugars	6.0g
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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VITAMINS

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	≤ 6.0 g
Ash	≤ 1.0 g

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SAFETY DATA SHEET

PRODUCT NAME: FibRefine P90 Tapioca Fiber

ICON FOODS, INC. – USA | PRODUCT #: 1807

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 P90 Tapioca Fiber
 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: Powder	Explosive Properties: --
Color: White to slight 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).

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.

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VERSION HISTORY

VERSION #	DATE	REVISIONS	APPROVAL
1.1	12/27/2022	Updated NFP for average total sugars value.	ZN
1.2	04/23/2024	Updated Country of Origin	ZN
1.3	10/21/2025	Added water activity to parameter list.	ZN
1.4	01/21/2026	Added Lactic Acid Bacteria to parameter list.	ZN

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