

Organic Coconut Insoluble Fiber Powder 80%

Product Specification Sheet



1. Product Identification

- **Product Name:** Coconut Insoluble Fiber
- **Botanical Source:** *Cocos nucifera* (Coconut)
- **Physical Form:** Powder
- **Colour:** Light cream
- **Odour:** Characteristic and acceptable
- **Intended Use:** Food ingredient for fiber



enrichment in nutraceuticals, functional foods, bakery products, dietary supplements, and aquaculture feeds. Suitable for further processing (e.g., heat treatment) to ensure microbial safety.

2. Product Description

Organic Coconut Fiber Powder is also known as **COCO GUT** is a natural, plant-based dietary fiber derived from deoiled coconut cake. It features **high insoluble dietary fiber** content with low sugar, fat, and calorie levels, making it ideal for gut health, low-calorie formulations, and fiber-fortified products. The product is vegan, GMO-free, and free from added sugars or allergens.

3. Chemical & Nutritional Specifications

PARAMETER	TYPICAL VALUE / SPECIFICATION	UNIT	TEST METHOD	LOQ (WHERE APPLICABLE)
Moisture	≤ 6.0	g/100 g	USP 731 / FSSAI Manual	0.1
Dry Matter (Total)	≥ 94.0	g/100 g	FSSAI Manual	1
Total Ash	≤ 2	g/100 g	USP 561	0.1
Total Fat	≤ 2	g/100 g	IS 966 / AOAC 920.39	0.1
Protein	≤ 3.0	g/100 g	AOAC 2001.11	0.1
Total Carbohydrates	75 – 80	g/100 g	AOAC 986.25	0.5
Available Carbohydrates	~15	g/100 g	EASI-CHE-SOP-123	0.1
Energy	~265	Kcal /100 g	EASI-CHE-SOP-123	-
Total Dietary Fiber	≥ 85.0	g/100 g	AOAC 985.29	0.5
Insoluble Dietary Fiber	≥ 80.0	g/100 g	AOAC 991.43	0.5
Soluble Dietary Fiber	≤ 5.0	g/100 g	AOAC 991.43	0.5

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Crude Fiber	≤ 2.0	g/100 g	IS 16041	0.5
Acid Detergent Fiber (ADF)	~45 – 50	g/100 g	Ankom Method 5	0.1
Neutral Detergent Fiber (NDF)	≥ 75	g/100 g	Ankom Method-6	0.1
Total Sugars	< 0.5	g/100 g	AOAC 982.14	0.5
Individual Sugars (Fructose, Glucose, Lactose, Maltose, Sucrose)	< 0.5 (Not Detected)	g/100 g	AOAC 982.14	0.5

4. Amino Acid Profile (Typical Values per 100 g)

The product contains naturally occurring amino acids from coconut protein. Essential amino acids total ~6.0 g/100 g.

Amino Acid	Typical Value	Unit	Test Method	LOQ
Alanine	~0.93	g/100 g	EASI-CHE-SOP-25	0.01
Arginine	~1.01	g/100 g	EASI-CHE-SOP-25	0.01
Aspartic Acid	~1.45	g/100 g	EASI-CHE-SOP-25	0.01
Cysteine + Cystine	~0.10	g/100 g	EASI-CHE-SOP-25	0.01
Glutamic Acid	~2.19	g/100 g	EASI-CHE-SOP-25	0.01
Glycine	~0.73	g/100 g	EASI-CHE-SOP-25	0.01
Histidine	~0.26	g/100 g	EASI-CHE-SOP-25	0.01
Isoleucine	~0.86	g/100 g	EASI-CHE-SOP-25	0.01
Leucine	~1.14	g/100 g	EASI-CHE-SOP-25	0.01
Lysine	~0.78	g/100 g	EASI-CHE-SOP-25	0.01
Methionine	~0.30	g/100 g	EASI-CHE-SOP-25	0.01
Phenylalanine	~0.72	g/100 g	EASI-CHE-SOP-25	0.01
Proline	~0.41	g/100 g	EASI-CHE-SOP-25	0.01
Serine	~0.71	g/100 g	EASI-CHE-SOP-25	0.01
Threonine	~0.79	g/100 g	EASI-CHE-SOP-25	0.01
Tyrosine	~0.39	g/100 g	EASI-CHE-SOP-25	0.01
Valine	~0.86	g/100 g	EASI-CHE-SOP-25	0.01

5. Fatty Acid Profile (Typical Values per 100 g)

Low overall fat content with primarily saturated fatty acids in trace amounts. No detectable omega-3 (e.g., EPA/DHA) or trans fats above LOQ.

Fatty acid	Typical value	Unit	Test method	Loq
C12:0 Lauric Acid	~0.83	g/100 g	EASI-CHE-SOP-166	0.1
C14:0 Myristic Acid	~0.39	g/100 g	EASI-CHE-SOP-166	0.1
C16:0 Palmitic Acid	~0.37	g/100 g	EASI-CHE-SOP-166	0.1
C18:1 Oleic Acid	~0.35	g/100 g	EASI-CHE-SOP-166	0.1
C18:0 Stearic Acid	~0.14	g/100 g	EASI-CHE-SOP-166	0.1
All Others (e.g., C4:0 – C24:1, including omega-3/6)	< 0.10 (Not Detected)	g/100 g	EASI-CHE-SOP-166	0.1

6. Physical Properties

Parameter	Typical Value / Specification	Unit	Test Method	LOQ
Visual Appearance	Light cream colour powder	-	EASI-GEN-SOP-26	-
Odour	Acceptable	-	EASI-GEN-SOP-26	-
Bulk Density (Untapped)	~0.34	g/ml	USP 616	0.1
Bulk Density (Tapped)	~0.43	g/ml	USP 616	0.1
Solubility in Cold Water	≤ 0.20 (Insoluble)	g/100 g	EASI-CHE-SOP-263	0.1

7. Heavy Metals (Compliance Limits)

Parameter	Limit	Unit	Test Method	LOQ
Arsenic (As)	< 0.05	mg/kg	EASI-CHE-SOP-44	0.05
Cadmium (Cd)	≤ 0.05	mg/kg	EASI-CHE-SOP-44	0.02
Copper (Cu)	≤ 25	mg/kg	EASI-CHE-SOP-44	0.1
Lead (Pb)	≤ 0.5	mg/kg	EASI-CHE-SOP-44	0.05
Mercury (Hg)	< 0.01	mg/kg	EASI-CHE-SOP-44	0.01
Tin (Sn)	≤ 1.0	mg/kg	EASI-CHE-SOP-44	0.1

Complies with FSSAI, EU, and USDA food safety standards.

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8. Microbiological Specifications (As-Is / Untreated)

Parameter	Typical value	Unit	Test method	Loq
Total Plate Count	NMT 10000	cfu/g	ISO 4833-1:2013	10
Coliforms	Absent	cfu/g	ISO 4832:2006	10
Escherichia coli	Absent	cfu/g	ISO 16649-2:2001	10
Staphylococcus aureus	Absent	cfu/g	ISO 6888-1:2021	10
Salmonella	Absent	25/g	ISO 6579-1:2017	-
Pseudomonas aeruginosa	Absent	25/g	USP 62:2025	-
Mould	NMT 100	cfu/g	ISO 21527-2:2008	10

9. Packaging

- **Primary Packaging:** Food-grade aluminium laminated packs (e.g., 260g or 65g samples)
- **Secondary Packaging:** HDPE drums or cartons
- **Pack Sizes:** 10 kg, 20 kg, 25 kg (customizable)
- **Condition:** Sealed to prevent moisture ingress.

10. Storage Conditions

- Store in a cool, dry place away from direct sunlight and contaminants.
- Recommended Temperature: < 25°C | Relative Humidity: < 65%
- Protect from pests and moisture to maintain stability.

11. Shelf Life

- **12 – 18 months** from date of manufacture under recommended storage conditions. Stability testing advised for extended periods.

12. Regulatory Compliance & Claims

- **Compliant With:** FSSAI, Halal, Kosher, EU Regulations (EC 1881/2006 for contaminants).
- **Label Claims:** High Source of Insoluble Dietary Fiber ($\geq 80.0\%$ / 100g serving), Low Fat, Low Sugar, Vegan, GMO-Free, Allergen-Free (no nuts, dairy, etc.).

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