

TECHNICAL DATA SHEET (TDS)

SPRAY DRIED NENDRAN BANANA POWDER

Product Identification

Product Name: Spray Dried Nendran Banana Powder
Botanical Name: Musa paradisiaca
Common Name: Nendran Banana Powder
Country of Origin: India
Process: Pulp Extraction → Spray Drying → Sieving → Quality Testing → Packaging

Product Description

Spray Dried Nendran Banana Powder is manufactured from carefully selected Nendran bananas processed into pulp and spray dried under controlled conditions. The powder offers excellent dispersibility, characteristic banana flavor, extended shelf life, and suitability for food, beverage, dairy, bakery, nutraceutical, and infant nutrition applications.

Organoleptic Specifications

Parameter	Specification
Appearance	Fine Free-Flowing Powder
Color	Cream to Light Yellow
Odor	Characteristic Nendran Banana
Taste	Characteristic Banana Flavor
Foreign Matter	Absent

Physical & Chemical Specifications

Parameter	Specification
Moisture	≤ 5.0%
Particle Size	80–100 Mesh (Customizable)
Solubility	≥ 90%
Bulk Density	0.50 – 0.75 g/ml
pH (5% Solution)	5.0 – 6.5
Water Activity	≤ 0.30
Total Ash	≤ 5.0%

Parameter	Specification
Acidity (as Citric Acid)	0.5 – 2.0%

Microbiological Specifications

Parameter	Limit
Total Plate Count	< 10,000 CFU/g
Yeast & Mold	< 100 CFU/g
Coliforms	< 10 CFU/g
E. coli	Absent
Salmonella	Absent in 25 g
Staphylococcus aureus	Absent

Heavy Metals

Parameter	Limit
Lead (Pb)	< 2.0 ppm
Arsenic (As)	< 1.0 ppm
Cadmium (Cd)	< 1.0 ppm
Mercury (Hg)	< 0.1 ppm

Typical Nutritional Information (Per 100 g)

Parameter	Typical Value
Energy	360–400 kcal
Carbohydrates	85–95 g
Total Sugars	35–60 g
Dietary Fiber	2–8 g
Protein	2–4 g
Fat	< 1.5 g
Potassium	500–1200 mg
Sodium	< 50 mg

Applications

- Infant Nutrition
- Baby Food Formulations
- Flavored Milk & Dairy Products
- Health Drinks
- Bakery Products

- Breakfast Cereals
 - Nutraceuticals
 - Functional Foods
 - Snack Seasonings
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Packaging

Food-grade multi-layer bags with inner liner.

Available pack sizes:

- 10 kg
 - 20 kg
 - 25 kg
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Shelf Life

24 Months from date of manufacture when stored in unopened original packaging under recommended conditions.

Storage Conditions

Store in a cool, dry place away from direct sunlight and moisture.

Compliance

- Non-GMO
 - Vegetarian / Vegan Suitable
 - Food Grade
 - Not Irradiated
 - Free from Artificial Colors and Flavors
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Disclaimer

Values shown are typical specifications and may vary from batch to batch. Final product release is based on Certificate of Analysis (COA) results.