

CERTIFICATE OF ANALYSIS

Product Name: Spray Dried Nendran Banana Powder
Botanical Name: *Musa paradisiaca* (Nendran Variety)
Batch No: SBN-2026/0804
Date of Manufacture: August 2026
Best Before: 12 Months from manufacture
Batch Size: 500 kg
Country of Origin: India

1. Organoleptic & Physical Parameters

Test Parameter	Specification	Result	Test Method
Appearance	Fine, free-flowing spray-dried powder	Conforms	Organoleptic
Color	Creamish-white to light pale yellow	Creamish-white	Visual
Flavor / Odor	Characteristic sweet aroma of ripe Nendran banana	Conforms	Organoleptic
Particle Size	100% passing through 80 Mesh	Conforms	IS sieve analysis
Solubility	Highly soluble in warm/cold water or milk	> 95%	Visual dispersion

2. Physico-Chemical Parameters

Test Parameter	Specification	Result	Test Method
Moisture Content	Max 5.0%	3.8%	Gravimetric (AOAC method)
Total Ash	Max 5.0%	2.4%	Gravimetric (Ignition)
pH (10% Solution)	5.0 – 6.0	5.4	pH Meter
Total Acidity	NMT 2.0% (as citric acid)	1.1%	Titrimetry

Test Parameter	Specification	Result	Test Method
Bulk Density	0.65 – 0.80 g/ml	0.72 g/ml	Tapped Density Cylinder

3. Microbiological Parameters

Test Parameter	Specification	Result	Test Method
Total Plate Count (TPC)	< 10,000 CFU/g	< 1,000 CFU/g	IS 5402
Yeast & Mold	< 100 CFU/g	< 10 CFU/g	IS 5403
Coliforms	Absent / g	Absent	IS 5401
E. Coli	Absent in 1g	Not Detected	IS 5887
Salmonella	Absent in 25g	Absent	IS 5887

Remarks & Conclusion

The above-analyzed sample **COMPLIES** with food-grade standards and is deemed fit for commercial use, infant formulation bases, or functional food applications.

- **Storage Conditions:** Store in a cool, dry place away from direct sunlight, sealed tightly in original packaging.
- **Ingredients:** Spray-dried Nendran Banana Pulp, Maltodextrin (Carrier agent, < 15%).

Prepared By: (Quality Control Chemist)

Approved By: (Quality Assurance Manager)

This is a computer-generated document and is valid without a physical signature.

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