



Technical Data Sheet (TDS)

PRODUCT: NATURAL TURMERIC POWDER (SPFP)[™]

Product Code : NANTP010A	Botanical Name : <i>Curcuma Longa</i>
Batch No : NANTP010A092025	Mfg. Date : 1st July 2025
Application : Animal Feed	Exp. Date : 30th June 2027

1. Product Description

Natural Turmeric Powder obtained from the dried rhizomes of *Curcuma longa*. Known for its bright yellow-orange color, warm aromatic flavor, and bioactive compounds. Specifically processed for use as an animal feed and aquatic feed additive due to its antioxidant, antimicrobial, and gut health benefits.

2. Physical & Chemical Properties

Parameter	Typical Value	Method
Appearance	Yellow-Orange fine powder	Visual
Odor	Characteristic, aromatic	Organoleptic
Total Ash	6.85% (NMT 9%)	AOAC
Acid-Insoluble Ash	1.12% (NMT 1.5%)	AOAC
Loss on Drying	7.25% (NMT 10%)	AOAC
Bulk Density	0.58 g/ml (NMT 1.0)	USP
Tap Density	0.79 g/ml (NMT 1.0)	USP
Water-Soluble Extractive	18.45% (NLT 12%)	AOAC
Alcohol-Soluble Extractive	12.87% (NLT 10%)	AOAC
Particle Size	≥95% through 80# mesh	Sieve Analysis

3. Heavy Metals

Heavy Metals	Standard	Values	Status
Lead	ICP-MS	NMT - 1.0ppm	Complies
Arsenic	ICP-MS	NMT - 1.0ppm	Complies
Cadmium	ICP-MS	NMT - 0.3ppm	Complies
Mercury	ICP-MS	NMT - 1.0ppm	Complies



4. Microbiological Specifications

Parameter	Limit
Total Plate Count	$\leq 1.0 \times 10^5$ CFU/g
Yeast & Mold	$\leq 1.0 \times 10^3$ CFU/g
E. coli	Absent
Salmonella	Absent
Staphylococcus	Absent
Coliforms	$\leq 1.0 \times 10^2$ CFU/g

5. Applications

- Animal feed additive (poultry, ruminants, swine)
- Aquaculture feed (shrimp, fish)
- Natural growth promoter and health enhancer
- Antioxidant and gut health support
- Alternative to synthetic additives in livestock and aqua nutrition

6. Packaging & Storage

- Packaging: Feed-grade polybag, HDPE drum secondary
- Storage: Cool, dry place, away from direct sunlight and moisture
- Shelf Life: 24 months under recommended storage

7. Safety & Regulatory Status

- Non-hazardous, feed-grade product
- Complies with AAFCO, BIS, and FSSAI guidelines for feed ingredients
- Safe for use in animal and aquatic feed applications

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