

Technical data sheet

Turmeric extract 95% curcuminoids · Curcuma longa · rhizome

SPECIMEN — PRODUCT-LEVEL DOCUMENT, NOT A BATCH RECORD

PRODUCT Turmeric extract 95%	BOTANICAL SOURCE Curcuma longa	PLANT PART Rhizome	SPECIFICATION 95% curcuminoids (HPLC)
CARRIER None	APPEARANCE Orange-yellow powder	PARTICLE SIZE 80 mesh standard	SHELF LIFE 24 months, sealed

DESCRIPTION

A turmeric rhizome extract standardized to 95% total curcuminoids by HPLC, produced by water–ethanol extraction, concentration, and spray drying. The grade is intended for capsules, tablets, powder blends, and food or beverage applications where a defined curcuminoid content is required. It is not a water-soluble grade; a dispersible or enhanced grade is available separately.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD
Identity	Conforms to Curcuma longa reference	TLC / macroscopic
Curcuminoids	95.0–100.5%	HPLC
Curcumin share	70–80% of total curcuminoids	HPLC
Appearance	Orange-yellow to bright yellow powder	Visual
Odour and taste	Characteristic, pungent	Organoleptic
Moisture	≤ 5.0%	Loss on drying
Ash	≤ 5.0%	Gravimetric
Particle size	≥ 98% through 80 mesh	Sieve
Bulk density	0.45–0.65 g/mL	Tapped
Heavy metals	Pb ≤ 1 ppm; As ≤ 1 ppm; Cd ≤ 1 ppm; Hg ≤ 0.1 ppm	ICP-MS
Microbiology	TPC ≤ 10,000 CFU/g; Y&M ≤ 1,000 CFU/g; E. coli and Salmonella absent	ISO methods
Residual solvents	Ethanol ≤ 5,000 ppm; panel matched to process	GC

SOLUBILITY AND BEHAVIOUR

- Insoluble in water; soluble in ethanol.
- Dispersible grades can be quoted for beverages; standard grade will sediment.
- Intense yellow colour; can stain equipment and packaging.
- pH and heat sensitive in some matrices; test in the final formula.

STORAGE AND PACKAGING

- Store sealed in a cool, dry place, protected from light and moisture.
- Standard pack: 25 kg fiber drum with food-grade liner.
- Smaller cartons and sample packs available.
- Retest or expiry date stated on the batch COA.

APPLICATIONS

SUPPLEMENTS

Joint, antioxidant, and daily wellness capsules or tablets.

FOOD

Golden milk, functional blends, and seasoning applications.

BEVERAGE

Requires a dispersible or enhanced grade; test clarity and colour.

DOCUMENTATION

Each lot is released with a batch COA, this TDS at its current revision, an SDS, allergen and GMO statements, and an origin record. Halal, Kosher, or organic certificates are available where the grade and facility are covered and are confirmed at quotation.

Specimen document. This TDS describes the product format and the fields a buyer should expect. It is not a batch COA and does not confirm a specific result. The final specification, carrier, limits, and documentation are agreed in writing before the order. Any change to plant part, solvent, carrier, or marker method is handled through written change control.