Superoxide Dismutase

— · CAS 9054-89-1 · Superoxide dismutase, powder

CATALOG TDS — CONFIRMED IN WRITING AT QUOTATION

CHEMICAL FORM	FORMULA	CAS	PRIMARY ASSAY
Superoxide dismutase, powder	—	9054-89-1	≥10,000 U/g
METHOD	**MINIMUM ORDER**	**LEAD TIME**	**STANDARD PACK**
Activity assay (xanthine oxidase, NBT)	1 kg	1–7 days	1 kg foil pouch · 25 kg fiber drum

DESCRIPTION

Superoxide dismutase specified at ≥10,000 U/g by the xanthine-oxidase/NBT assay; the unit definition, the substrate system and the pH are part of the specification.

SPECIFICATION

PARAMETER	SPECIFICATION	METHOD / NOTE
Activity (units)	≥10,000 U/g	As stated
Appearance	White to off-white powder	As stated
Identification	Activity assay and IR conform	As stated
Loss on drying	≤8.0%	As stated
Heavy metals	Pb ≤3 · As ≤2 · Cd ≤1 · Hg ≤0.1 mg/kg	As stated
Microbiology	APC ≤1,000 cfu/g · yeast and mould ≤100 cfu/g · E. coli and Salmonella absent	As stated
Particle size	≥95% through 40 mesh	As stated
Marker set	SOD ≥10,000 U/g	Identity
Solubility	Soluble in water; the solution is clear to slightly opalescent.	Matrix dependent

APPLICATIONS

- Capsules and tablets
- Powder blends

AVAILABLE FORMS

- Powder
- Granulated on request

PACKING

- 1 kg foil pouch
- 25 kg fiber drum

STORAGE

Store in a cool, dry, well-ventilated area, away from direct sunlight and moisture. Keep the pack closed after sampling. The lot-specific retest date is shown on the batch COA.

DOCUMENTATION RELEASED WITH EACH LOT

- Batch-specific certificate of analysis
- Technical data sheet and safety data sheet
- Allergen, GMO, origin and residual-solvent statements
- Third-party reports on request

> **Catalog document.** This TDS describes the grade we can quote. The final specification, pack and documentation are confirmed in writing before the order. It is not a batch COA and does not report a result for a specific lot.