

Cerium Oxide Nanoparticles

Cat. No.: C1520773 | Pack size: 1 mL / 5 mL / 10 mL | Storage: Store at 2-8°C; protected from light; desiccated; do not freeze

Overview

Cerium oxide nanoparticles possess broad-spectrum antioxidant activity and can scavenge free radicals. They exhibit enzyme-mimetic catalytic activities, such as superoxide dismutase (SOD) and catalase.

Attribute	Value
Ingredients	Cerium oxide nanoparticles, purified water
Concentration	1 mg/mL
Particle size	2~5 nm
Color	Light yellow
Storage conditions	Desiccated, 4°C

Product Images

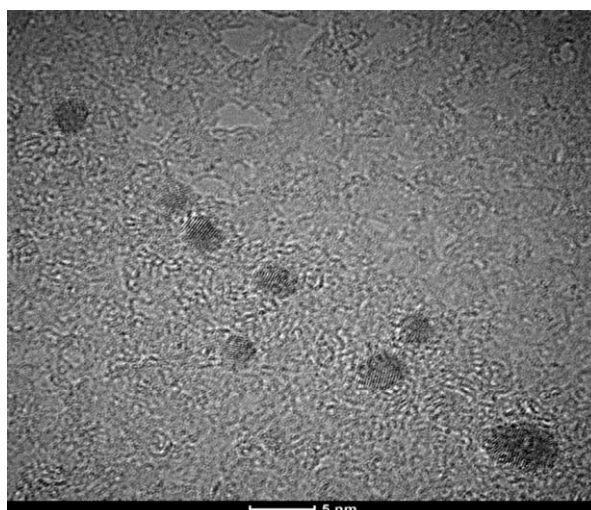


Figure 1: TEM image of cerium oxide nanoparticles



Figure 2: Color development of TMB induced by cerium oxide nanoparticles



Figure 3: Rapid oxygen release from H₂O₂ induced by cerium oxide nanoparticles

Specifications

Attribute	Value
Synonyms	Cerium dioxide nanoparticles Ceria nanoparticles
Specifications & Purity	BioReagent, 1 mg/mL, dispersion solvent: ultrapure water, particle size: 2~5 nm
Stability And Storage	Store at 2-8°C long term (36 months). Desiccated. Do not freeze.
Storage Conditions	Store at 2-8°C, Protected from light, Desiccated, Do not freeze
Shipped In	Wet ice, Do not freeze. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.

This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals.

Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, transportation, disposal, and emergency procedures.

Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.

Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document must be revalidated before use.