

Cerium Oxide Nanoparticles

Cat. No.: C1523392 | Pack size: 1 mL / 5 mL / 10 mL | Storage: Store at 2-8°C; 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.

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

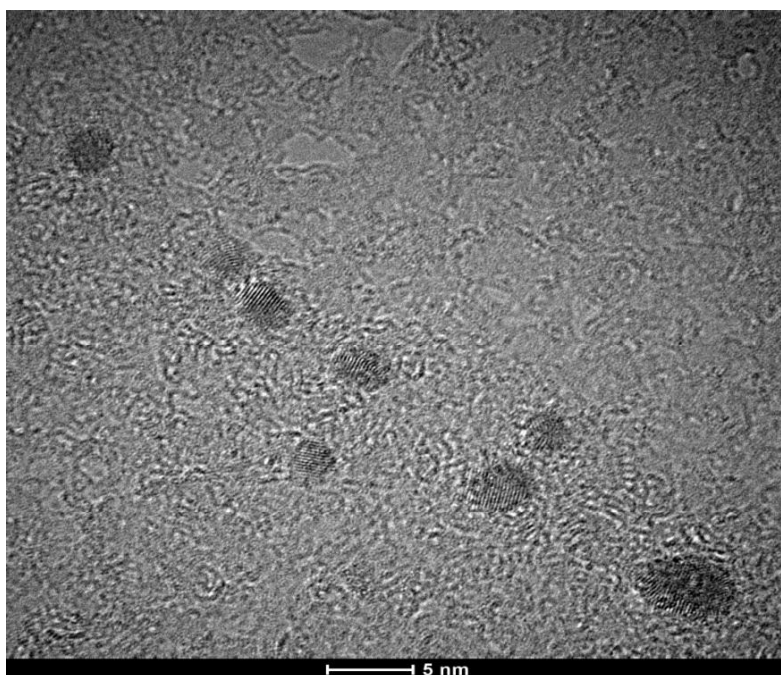


Figure 1: TEM image of cerium oxide nanoparticles



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
Specifications & Purity	BioReagent, 1 mg/mL, dispersion solvent: ultrapure water, particle size: 2~5 nm, Surface modification: PAA
Stability And Storage	Store at 2-8°C long term (36 months). Desiccated. Do not freeze.

Attribute	Value
Storage Conditions	Store at 2-8°C
Shipped In	Wet ice. This product requires cold chain shipping. Ground and other economy services are not available.

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.

NORTH AMERICAN SALES, SUPPORT & GENERAL INQUIRIES Aladdin Scientific Corporation 14078 Meridian Parkway, Riverside, CA 92518, USA Phone: 1-833-552-7181 Sales: sales@aladdinsci.com Customer Service: custserv@aladdinsci.com	EU SALES, LOGISTICS & LOCALIZED SUPPORT Aladdin Biochem Deutschland GmbH Westring 2, 33142 Büren, Germany Phone: +02951 9383958 Support: support.eu@aladdinsci.com
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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 for research and development purposes.
- 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, and disposal information.
- 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 condition, pack size, or quality specifications change, this document would be reviewed and reissued.