

Orange G Indicator

Cat. No.: O1520394 | Pack size: 100 mL | Storage: Room temperature; protect from light

Overview

Orange G has the molecular formula $C_{16}H_{10}N_2Na_2O_7S_2$. It appears as a yellowish-red powder or crystalline flakes, is soluble in water and ethanol, and is insoluble in ether and chloroform. Its aqueous solution is orange-yellow and its ethanol solution is orange. Maximum absorption wavelength is 475 nm.

Key Features

- Acid-base indicator with alkaline pH transition range
- Suitable for microscopy and microbiology research use
- Room-temperature storage with light protection
- Can be used in routine laboratory indicator applications

Contents & Storage

Cat. No.	Component	Size	Storage
O1520394	Orange G Indicator	100 mL	RT; protect from light

Protocol

Application

Application	Transition Range / Result
Acid-base indicator	pH 11.5 (yellow) to pH 14.0 (orange-red)
Aqueous solution behavior	Hydrochloric acid causes no change; sodium hydroxide turns solution yellowish-red
Calcium chloride reaction	Forms crystalline calcium salt

Storage & Handling

Store at room temperature for up to 12 months and protect from light.

Safety & Precautions

1. Wear a lab coat and disposable gloves during operation.
2. For research use only and strictly prohibited for other purposes.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	No abnormal precipitation or discoloration beyond expected reagent color
Staining performance	Positive-control smear or section	Expected target/background staining pattern is observed
Storage condition	Label and storage check	Stored as specified; light-sensitive reagents protected from light

Troubleshooting

Issue	Possible Causes	Corrective Action
Unexpected transition color	pH or matrix outside method conditions	Verify pH range and include suitable controls
Weak color	Light exposure or old reagent	Use fresh, light-protected reagent
Precipitation	Matrix or storage issue	Inspect before use and replace if abnormal

Recommended Applications

Acid-base indication · staining solution preparation · microscopy/microbiology research workflows

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

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 product 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 conditions, pack size, or quality specifications change, this document would be reviewed and reissued.