

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.

[GET YOURS HERE](#)[Toutes les photos \(1\)](#)

Documents

[FDS](#)[COO/COA](#)[Fiche des caractéristiques](#)[Plus de documents »](#)**O5500** ▶ **Sigma-Aldrich.**

Osmium tetroxide

★★★★★ (0)

Sealed ampule.

Synonyme(s):

Osmium(VIII)-oxide, 'Osmic acid'

Formule linéaire:

 OsO_4 Numéro CAS: **20816-12-0**

Poids moléculaire: 254.23

Numéro EC: **244-058-7**Numéro MDL: **MFCD00011150**ID de substance PubChem: **57654490**

NACRES: NA.47

Référence	Conditionnement	Disponibilité	Prix	Quantité
O5500-250MG	250 MG	✓ Date d'expédition estimée le 10 octobre 2022	190,00 €	— +
O5500-1G	1 G	✓ Date d'expédition estimée le 10 octobre 2022	568,00 €	— +
O5500-10X1G	10 X 1 G	✓ Date d'expédition estimée le 24 novembre 2022	3430,00 €	— +

Brighten up your lab coat!

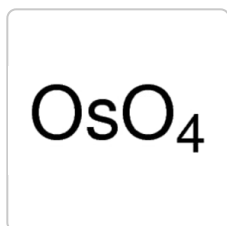
Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



PRODUITS RECOMMANDÉS



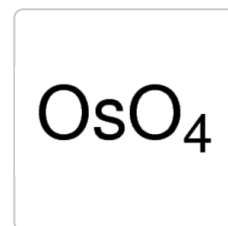
Sigma-Aldrich

75632

Osmium tetroxide solution

suitable for electron microscopy, 4% in H₂O

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

75633

Osmium tetroxide solution

suitable for electron microscopy, 2% in H₂O

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Densité de vapeur 8.8 (vs air)

Niveau de qualité 200

Pression de vapeur 7 mmHg (20 °C)

Forme powder

reaction suitability reagent type: oxidant

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



SMILES string

O=[Os](=O)(=O)=O

InChI

1S/4O.Os

InChI key

VUVGYHUDAICLFK-UHFFFAOYSA-N

Vous recherchez des produits similaires ? Visit [Guide de comparaison des produits](#)

Catégories apparentées

Oxidation Reagents

DESCRIPTION

Description générale

Osmium tetroxide (OsO₄) is a heavy tetrahedral, symmetrical molecule composed of osmium, a third-row transition metal. Osmium tetroxide is both a dye, and a non-coagulant fixative agent in electron microscopy primarily used for the examination of biological tissue components in the histopathology laboratory. Specimens are postfixed with osmium tetroxide to ensure preservation of the lipids.

Application

Osmium tetroxide has been used as a fixative reagent for *Brevibacterium mcbrellneri*, and curcumin treated human lung cancer cell lines' observation with a scanning electron microscope. It is also suitable as a fixative for ultrastructural analysis of *Toxoplasma gondii*'s skeletal muscle cells.

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



1 g ampule

Actions biochimiques/physiologiques

Osmium tetroxide chemically combines with lipids making them insoluble; only 7% of the lipids can be extracted after the fixation. Therefore, the cell membranes comprising phospholipids become black and electron-dense after fixation in osmium tetroxide. It is also used to fix small amount of fat maintained in sections during paraffin processing.

Autres remarques

Due to the hazardous nature of osmium tetroxide, it is recommended to use an ampule opener when using this chemical.

PRODUITS APPARENTÉS

Produit Apparenté

Z693847

Scienceware® Break-Safe™ ampule opener

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Classification des risques	Code de la classe de stockage	WGK	Équipement de protection individuelle
Acute Tox. 1 Dermal - Acute Tox. 2 Inhalation - Acute Tox. 2 Oral - Eye Dam. 1 - Skin Corr. 1B	6.1A - Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials	WGK 1	Eyeshields, Faceshields, Gloves, type P3 (EN 143) respirator cartridges

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



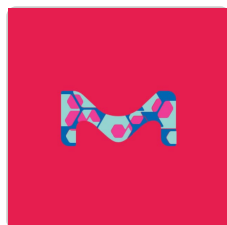
Plus De Documents

[Pressure-Temperature Nomograph](#)

[Structure Search](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

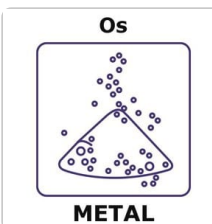


Sigma-Aldrich

45359

Epoxy Embedding Medium kit

[Consulter le prix et la disponibilité](#)



Os

GF91691983

Osmium

powder, 500 max. part. size (micron), weight 10 g, purity 99.9%

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Ultracentrifugation deforms unfixed influenza A virions.

Yukihiko Sugita et al.

The Journal of general virology, 92(Pt 11), 2485-2493 (2011-07-29)

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Improved biocytin labeling and neuronal 3D reconstruction.

Manuel Marx et al.

Nature protocols, 7(2), 394-407 (2012-02-04)

In this report, we describe a reliable protocol for biocytin labeling of neuronal tissue and diaminobenzidine (DAB)-based processing of brain slices. We describe how to embed tissues in different media and how to subsequently histochemically label the tissues for light

FIB-SEM imaging of carbon nanotubes in mouse lung tissue.

Carsten K bler et al.

Analytical and bioanalytical chemistry, 406(16), 3863-3873 (2014-01-23)

Ultrastructural characterisation is important for understanding carbon nanotube (CNT) toxicity and how the CNTs interact with cells and tissues. The standard method for this involves using transmission electron microscopy (TEM). However, in particular, the sample preparation, using a microtome to

Pododermatitis in Captive and Free-Ranging Greater Flamingos (*Phoenicopterus roseus*).

F Wyss et al.

Veterinary pathology, 52(6), 1235-1242 (2015-01-27)

Pododermatitis is frequent in captive flamingos worldwide, but little is known about the associated histopathologic lesions. Involvement of a papillomavirus or herpesvirus has been suspected. Histopathologic evaluation and viral assessment of biopsies from 19 live and 10 dead captive greater

Oligopolyphenylenevinylene-conjugated oligoelectrolyte membrane insertion molecules selectively disrupt cell envelopes of Gram-positive bacteria.

Jamie Hinks et al.

Applied and environmental microbiology, 81(6), 1949-1958 (2015-01-13)

The modification of microbial membranes to achieve biotechnological strain improvement with exogenous small molecules, such as oligopolyphenylenevinylene-conjugated oligoelectrolyte (OPV-COE) membrane insertion molecules (MIMs), is an emerging biotechnological field. Little is known about the interactions of OPV-COEs with their target, the

Brighten up your lab coat!

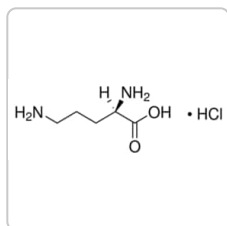
Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



PRODUITS CONSULTÉS RÉCEMMENT



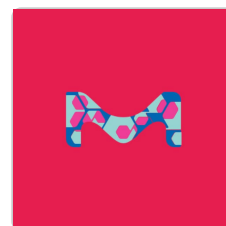
Sigma-Aldrich

O5250

D-Ornithine monohydrochloride

~98%

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

O5003

OPI Media Supplement

Hybri-Max™, γ-irradiated, powder, suitable for hybridoma

[Consulter le prix et la disponibilité](#)

Évaluations



[Soyez le premier à donner votre avis sur ce produit](#)

Questions

[Soyez le premier à poser une question](#)

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

[Contacter notre Service technique](#)

Le contenu de cette page vous a-t-il été utile ?*



Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

Envoyer

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE

