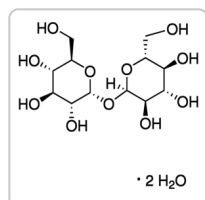


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (4)

Documents



FDS



COO/COA



Fiche des
caractéristiques

Plus de
documents »

T0167 ► Sigma-Aldrich.

D-(+)-Trehalose dihydrate

★★★★★ (0)

from *Saccharomyces cerevisiae*, powder, BioReagent, suitable for cell culture, suitable for insect cell culture, ≥99%

Synonyme(s):

α,α-Trehalose, α-D-Glucopyranosyl-α-D-glucopyranoside

Empirical Formula (Hill Notation):

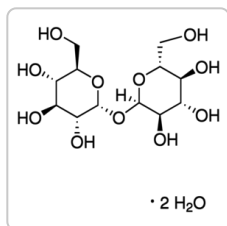
C₁₂H₂₂O₁₁ · 2H₂O

Numéro CAS:	6138-23-4	Poids moléculaire:	378.33
Beilstein:	5322018	Numéro EC:	202-739-6
Numéro MDL:	MFCD00071594	ID de substance PubChem:	24899871
NACRES:	NA.75		

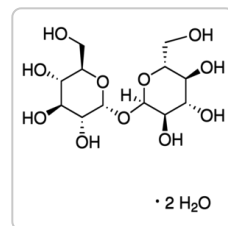
Référence	Conditionnement	Disponibilité	Prix	Quantité
T0167-10G	10 G	Only 4 left in stock (more on the way) Détails...	88,20 €	– +
T0167-25G	25 G	Only 5 left in stock (more on the way) Détails...	148,00 €	– +
T0167-100G	100 G	Disponible pour expédition le 10 octobre 2022 Détails...	443,00 €	– +

[Demander une commande en gros](#)[Ajouter au panier](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

T9531**D-(+)-Trehalose dihydrate**from *Saccharomyces cerevisiae*, ≥99%[Consulter le prix et la disponibilité](#)

Millipore

90210**D-(+)-Trehalose dihydrate**

≥99.0%, suitable for microbiology, composed of two α-glucose units that is used as a protectant, stabilizer and...

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité	200
Source biologique	<i>Saccharomyces cerevisiae</i>
Gamme de produits	BioReagent
Essai/Dosage	≥99%
Forme	powder

technique(s)	cell culture insect: suitable cell culture mammalian: suitable
Solubilité	H ₂ O: 50 mg/mL
SMILES string	<chem>[H]O[H].[H]O[H].OC[C@H]1O[C@H](O[C@H]2O[C@H](CO)[C@@H](O)[C@H](O)[C@H]2O)[C@H](O)[C@@H](O)[C@@H]1O</chem>
InChI	1S/C12H22O11.2H2O/c13-1-3-5(15)7(17)9(19)11(21-3)23-12-10(20)8(18)6(16)4(2-14)22-12;;/h3-20H,1-2H2;2*1H2/t3-,4-,5-,6-,7+,8+,9-,10-,11-,12-;/m1../s1
InChI key	DPVHGFAJLZWDOC-PVXXTIHASA-N

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

Catégories apparentées

Carbohydrates

DESCRIPTION

Description générale

Trehalose is a non-reducing disaccharide, ubiquitously present in nature. It is used as a food preservative and also to retain enzymes, vaccines, cells and many other molecules. Trehalose is present as hemolymph sugar among the invertebrates.

Application

D-(+)-Trehalose dihydrate has been used in a slow-freezing method for freezing rabbit oocytes. It has also been used in solid-surface vitrification (SSV) of in vitro-matured oocytes. It is suitable for use as a cryoprotectant in a variety of cell freezing media.

Conditionnement

10, 25, 100 g in poly bottle

Actions biochimiques/physiologiques

Trehalose is essential for embryogenesis, carbon metabolism, photosynthesis and flowering in plants. It predominantly exists among the species that supports anhydrobiosis (life without water). It serves as a carbohydrate reserve in microorganisms and protects them from adverse conditions, such as heat, cold, dehydration, desiccation and oxidation. Trehalose acts as a chemical chaperone affecting protein folding. It is known to prevent amyloid generation and accumulation of β -amyloid in vitro. A similar effect of trehalose has been observed with huntingtin protein aggregation. Thus, it might serve as a protective agent in Alzheimer's disease and Huntington's disease.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 1

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

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

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

FT-IR Condensed Phase

FT-NMR Spectra

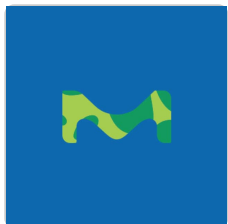
Spectra - ATR-IR

Spectra for FT-IR Raman

Structure Search

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



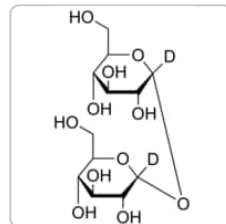
Millipore

92961

Trehalose Disks

suitable for microbiology

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

700452

α,α -Trehalose-1,1'-d₂

98 atom % D, 97% (CP)

[Consulter le prix et la disponibilité](#)

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

Can solutions of Product T0167, D-(+)-Trehalose dihydrate, be autoclaved?

Do not autoclave. It is best to sterile filter solutions.

Do we have information of any fluorescent impurities in Product T0167, D-(+)-Trehalose dihydrate?

This product is not tested for the presence or absence of fluorescent impurities.

Can Product T0167, D-(+)-Trehalose dihydrate, be used as a substitute for protein in a freezing media?

Yes, it should work as a substitute for protein in a freezing media. It is commonly used at a final concentration of 5% (50 mg/mL). Alternatively, one could use methylcellulose.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Trehalose metabolism: from osmoprotection to signaling

Iturriaga G, et al.

International Journal of Molecular Sciences, 10(9), 3793-3810 (2009)

Developmental competence of in vitro-fertilized porcine oocytes after in vitro maturation and solid surface vitrification: effect of cryopreservation on oocyte antioxidative system and cell cycle stage

Somfai T, et al.

Cryobiology, 55(2), 115-126 (2007)

Production of good-quality porcine blastocysts by in vitro fertilization of follicular oocytes vitrified at the germinal vesicle stage

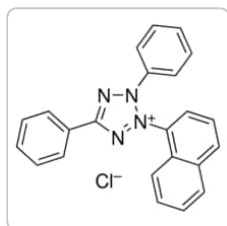
Somfai T, et al.

Theriogenology, 73, 147-156 (2010)

Biochemical analysis of trehalose and its metabolizing enzymes in wheat under abiotic stress conditions.

El-Bashiti T, et al.*Plant Science*, 169(1), 47-54 (2005)**Structural, metabolic and developmental evaluation of ovulated rabbit oocytes before and after cryopreservation by vitrification and slow freezing.****Salveti P, et al.***Theriogenology*, 74(5), 847-855 (2010)[Afficher tous les articles scientifiques apparentés](#)

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

T0138**Tetrazolium Violet**[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

STS0015**ECOSURF™ EH-3**

Non-ionic surfactant

[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

SERVICE TECHNIQUE

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..

Contactez notre Service technique

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