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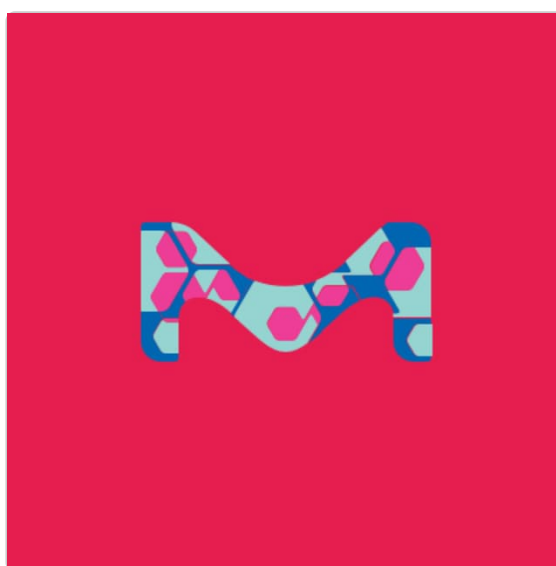


FD4 ► Sigma-Aldrich®

Fluorescein isothiocyanate-dextran

★★★★★ (0)

average mol wt 3,000-5,000



[Toutes les photos](#) (1)

Synonyme(s):

FITC-Dextran

Numéro CAS:

60842-46-8

Numéro MDL:

MFCD00131092

NACRES:

NA.25

Select an Option

Référence

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161,00 €



Disponible pour expédition le 10 octobre 2022 - **De**

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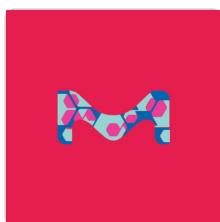
Documents

[↓ FDS](#)

[🔍 COO/COA](#)

[📄 Fiche des caractéristiques](#)

PRODUITS RECOMMANDÉS



Sigma-Aldrich

46944

Fluorescein isothiocyanate-dextran

average mol wt 4,000, (FITC:Glucose = 1:250)

[Consulter le prix et la disponibilité](#)

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PROPRIÉTÉS

Source biologique
synthetic

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FITC conjugate

Forme
powder

Poids mol.
average mol wt 3,000-5,000

Étendue du marquage
0.001-0.020 mol FITC per mol glucose

Solubilité
H₂O: 25 mg/mL

Temp. de stockage
2-8°C

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

Catégories apparentées

[Carbohydrates](#)

DESCRIPTION

Description générale

Dextran is a polymer of anhydroglucose. It is composed of approximately 95% alpha-D-(166) linkages. The remaining (163) linkages account for the branching of dextran. Conflicting data on the branch lengths implies that the average branch length is less than three glucose units. However, other methods indicate branches of greater than 50 glucose units exist. Native dextran has been found to have a molecular weight (MW) in the range of 9 million to 500 million. Lower MW dextrans will exhibit slightly less branching and have a more narrow range of MW distribution. Dextrans with MW greater than 10,000 behave as if they are highly branched. As the MW increases, dextran molecules attain greater symmetry. Dextrans with MW of 2,000 to 10,000, exhibit the properties of an expandable coil. At MW below 2,000, dextran is more rod-like. The MW of dextran is measured by one or more of the following methods: low angle laser light scattering, size exclusion chromatography, copper-complexation and anthrone reagent colorimetric reducing-end sugar determination and viscosity.

Application

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permeability. Plasma proteins have been shown not to bind to FITC-dextran.

FITC-dextran is used in cardiovascular, microcirculation, perfusion, cell monolayer and cell membrane permeability research as fluorescent flux tracer compound that supports the measurement of processes such as blood flow, membrane damage, vascular drainage and renal elimination. Small FITC-dextran are also used to measure processes such as endocytosis and cell junction permeability. 5kDa FITC-dextran may be used to calibrate microscale diffusion measurements. 5kDa FITC-dextran may be used to measure gut permeability in gut barrier dysfunction research.

Notes préparatoires

Sigma typically tests the solubility of FITC dextrans in water at concentrations at or above 25 mg/ml. Solutions should be protected from light. In vivo, FITC-dextran is stable for more than 24 hours.

PRODUITS APPARENTÉS**Produit Apparenté****08168**[View Pricing](#)**INFORMATIONS SUR LA SÉCURITÉ****Pictograms****GHS07****Mention d'avertissement**

Warning

Mentions de danger**H315 - H319 - H335****Conseils de prudence****P261 - P264 - P271 - P280 - P302 + P352 - P305 + P351 + P338****Classification de danger**

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Respiratory system

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

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)

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LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

FD150S

Fluorescein isothiocyanate-dextran

average mol wt 150,000

[Consulter le prix et la disponibilité](#)

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ARTICLES REVUS PAR DES PAIRS

Chitosan-based hydrogel to support the paracrine activity of mesenchymal stem cells in spinal cord injury treatment.

M Boido et al.

Scientific reports, 9(1), 6402-6402 (2019-04-27)

Advanced therapies which combine cells with biomaterial-based carriers are recognized as an emerging and powerful method to treat challenging diseases, such as spinal cord injury (SCI). By enhancing transplanted cell survival and grafting, biomimetic hydrogels can be properly engineered to

Maltodextrin-induced intestinal injury in a neonatal mouse model.

Pratibha Singh et al.

Disease models & mechanisms, 13(8) (2020-08-06)

Prematurity and enteral feedings are major risk factors for intestinal injury leading to necrotizing enterocolitis (NEC). An immature digestive system can lead to maldigestion of macronutrients and increased vulnerability to intestinal injury. The aim of this study was to test

Artificial rearing influences the morphology, permeability and redox state of the gastrointestinal tract of low and normal birth weight piglets.

Hans Vergauwen et al.

Journal of animal science and biotechnology, 8, 30-30 (2017-04-14)

In this study the physiological implications of artificial rearing were investigated. Low (LBW) and normal birth weight (NBW) piglets were compared as they might react differently to stressors caused by artificial rearing. In total, 42 pairs of LBW and NBW

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Honokiol is a biphenolic isolate extracted from the bark of the magnolia tree that has been used in traditional Chinese and Japanese medicine, and has more recently been investigated for its anti-inflammatory and antibacterial properties. Honokiol has previously been demonstrated

Myosin light chain kinase mediates intestinal barrier dysfunction via occludin endocytosis during anoxia/reoxygenation injury.

Youngeon Jin et al.

American journal of physiology. Cell physiology, 311(6), C996-C1004 (2016-10-21)

Intestinal anoxia/reoxygenation (A/R) injury induces loss of barrier function followed by epithelial repair. Myosin light chain kinase (MLCK) has been shown to alter barrier function via regulation of interepithelial tight junctions, but has not been studied in intestinal A/R injury.

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

FITC-labelled polysaccharides

Additional information about FITC-labelled polysaccharides including FITC-Dextran, FITC-DEAE-dextran (FDD), FITC-carboxymethyl-dextran (FCM-Dextran). This page discusses the impact of weight-average molecular weight on the...

Contenu apparenté

Fluorescein Isothiocyanate-Dextran

Dextran is a polymer of anhydroglucose. It is composed of approximately 95% alpha-D-(166) linkages. The remaining (163) linkages account for the branching of dextran.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

FD40S

Fluorescein isothiocyanate-dextran
average mol wt 40,000

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Évaluations

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Questions

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