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

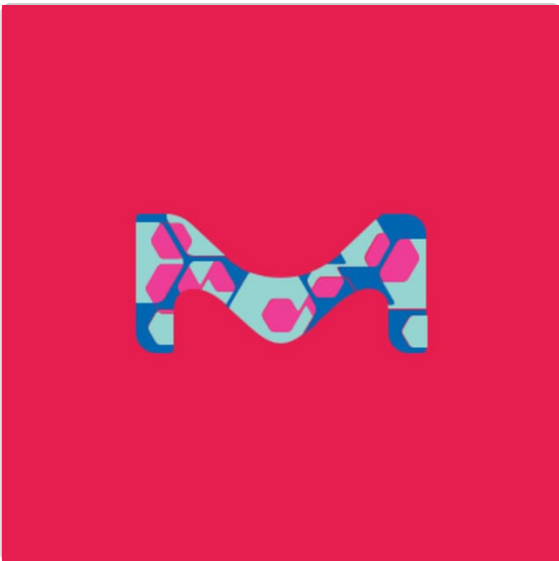


F5415 ▶ Sigma-Aldrich®

Ficoll® solution

★★★★★ (0)

Type 400, 20% in H₂O



Toutes les photos (1)

Numéro CAS:

26873-85-8

Numéro MDL:

MFCD00081599

NACRES:

NA.75

Select an Option

Référence

F5415-25ML



25 ML

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1

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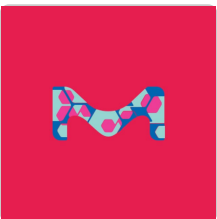
Ajouter au panier

Demander une commande en gros

Documents

- FDS
- COO/COA
- Fiche des caractéristiques

PRODUITS RECOMMANDÉS



Sigma-Aldrich
F4375
Ficoll® PM 400
Type 400

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PROPRIÉTÉS

Stérilité
0.2 µm filtered

Niveau de qualité
200

Type

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application(s)

hematology

histology

Temp. de stockage

2-8°C

Catégories apparentées

[Cell Separation Media](#)

[Hematology Stains](#)

[Histology Stains](#)

DESCRIPTION

Description générale

Ficoll® Solution is a highly branched polymer of sucrose, also known as polydisperse mixtures of dextran. Ficoll® molecules are inert and not re-absorbed by proximal tubules. The structure is open and deformable, and not a rigid sphere thereby becoming a preferred choice in “crowding” experiments.

Used in electrophoresis and as a hapten carrier. Most commonly used to prepare density gradients.

Application

Ficoll® has been used in

- Isolation of cord blood mononuclear cells
- Isolation of CD133 negative cells
- Isolation and expansion of circulating endothelial progenitor cells.

Autres remarques

A nonionic synthetic polymer of sucrose.

Informations légales

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INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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](#)

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F1418

Ficoll® 400

BioXtra, Type 400-DL, lyophilized powder

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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.

Is Product F5415, Ficoll® solution 20% suitable for the separation of mononuclear cells without further dilution?

No. The 20% solution of Ficoll has a density of approximately 1.066 to 1.068 g/mL. Typically products such as Histopaque 1077-1 or Ficoll Paque have a density of approximately 1.076 to 1.078 g/mL. Such ready to use solutions are also osmotically balanced by the addition of a lower molecular weight chemical. Properly balanced solutions will typically have an osmolality in the range of approximately 280-300 mOsm/Kg. If a ready made product is required for the separation of mononuclear cells, products Histopaque 1077-1 or H8889 should be utilized.

Is Product F5415, Ficoll® solution 20%, sterile?

No claims are made for sterility for F5415. If a sterile product is required for cell culture use, product F8636 has been gamma irradiated and is considered a sterile product. Product F8636 is a powder and does not come as a sterile solution.

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Biosciences/GE Healthcare hold the trademark. Since Sigma Aldrich uses polysucrose type 400 in the preparation of the various Histopaque products, the name polysucrose 400 is utilized.

Can more Ficoll be added to Product F5415, Ficoll® solution 20%, to increase the density to 1.077 g/mL?

This is not recommended. Ficoll has a molecular weight in the range of 400,000. Even 20% solutions of such high molecular weight products have extremely low osmolality. Without the addition of other lower molecular weight chemical, solutions of 20%+ of Ficoll are considered extremely hypotonic. Cells exposed to hypotonic solutions would not maintain viability and are prone to bursting.

Is there a Product Information Sheet for Product F5415, Ficoll® solution 20%?

No. However there is a Product Information Sheet for product F4375. This product information sheet gives general information regarding Ficoll and possible uses. If mononuclear cells are to be separated, a better choice of products is Histopaque 1077-1, H8889 or one of the prefilled Accuspin tubes.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Inverse Correlation Between Plasma Sphingosine-1-Phosphate and Ceramide Concentrations in Septic Patients and Their Utility in Predicting Mortality.

Xiaoliang Wu et al.

Shock (Augusta, Ga.), 51(6), 718-724 (2018-08-07)

The aim of this study was to investigate the correlation between plasma sphingosine-1-phosphate (S1P) and ceramide concentrations in sepsis, and the possible mechanisms for altered expression. Plasma S1P and ceramide concentrations were measured by HPLC-ESI-MS/MS. HLA-DR (human leukocyte antigen-DR) expression

Impairment of endothelial progenitor cells function in patient with mustard gas intoxication.

Vahid Siavashi et al.

Inhalation toxicology, 32(3), 131-140 (2020-04-22)

Background: Sulfur mustard (SM), also known as mustard gas, was first widely used in the Iraq-Iran. After SM exposure, the most prominent clinical signs are the development of extensive non-healing skin wounds and pulmonary signs, persisting over long time. Since

Analysis of Structural and Functional Glomerular Changes in Hyperglycemic Rats that Treated with Human Umbilical Cord Blood Derived CD133 Negative Ccells.

Feizi F, et al.

Physical Chemistry, 1(1) (2014)

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A Standardized and Quality-Controllable Protocol of Constructing Individual Tissue-Engineered Grafts Applicable to Treating Large Bone Defects.

Junchao Xing et al.

Tissue engineering. Part C, Methods, 25(3), 137-147 (2019-02-09)

Patient-specific individual tissue-engineered bones (iTEBs) have been recognized as a promising strategy for treating large bone defects. However, current construction protocols of iTEBs vary between lots and lack standardization and quality control, hampering further research and application. This study was

[Afficher tous les articles scientifiques apparentés](#)

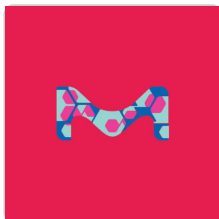
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Hematopoietic Stem Cell Culture Protocols

Step-by-step hematopoietic stem cell culture protocols for isolation, expansion and differentiation of CD34+ hematopoietic progenitor cells including CFU assays. It can be cultured under defined conditions designed either t...

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

F5392

Fibroblast Growth Factor-Basic from bovine pituitary

FGF-Basic, suitable for cell culture

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Évaluations



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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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