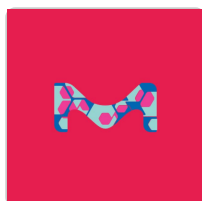


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photos (1)

P4707 ▶ **Sigma-Aldrich.**

Poly-L-lysine solution

★★★★★ 5.0 (1)

0.01%, sterile-filtered, BioReagent, suitable for cell culture

Synonyme(s):
PLL Solution

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)

Plus de documents »

Numéro CAS:

25988-63-0

Numéro MDL:

MFCD00165424

eCl@ss:

32160406

NACRES:

NA.75

Référence	Conditionnement	Disponibilité	Prix	Quantité
P4707-50ML	50 ML	✓ Disponible pour expédition le 10 octobre 2022	197,00 €	- +

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

PRODUITS RECOMMANDÉS

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BioReagent, suitable for cell culture



Consulter le prix et la disponibilité

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PROPRIÉTÉS

Stérilité	sterile-filtered
Niveau de qualité	300
Gamme de produits	BioReagent
Forme	liquid
Conditionnement	pkg of 50 mL
Concentration	0.01%
technique(s)	cell culture mammalian: suitable
Impuretés	endotoxin, tested
Expédié(e)s dans	ambient

Temp. de stockage 2-8°C

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InChI key

WBSCNDJQPKSPII-KKUMJFAQSA-N

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

Catégories apparentées

Attachment Factors

DESCRIPTION

Application

- Poly-L-lysine coated glass coverslips have been used for mounting samples for scanning electron microscopy.
- Poly-L-lysine coated wells were used for trapping of PC-12 cells on electrodes.
- Poly-L-lysine-coated borosilicate glass slides were used for the seeding of viral vector-transduced cells.

Poly-L-lysine polymers can be used in promoting cell adhesion to solid substrates, conjugation to methotrexate for increased drug transport, microencapsulation of islets, cell microencapsulation technology, microarray glass slide coating, and chromosomal preparations. Lower molecular weight poly-L-lysine (30,000-70,000) is less viscous in solution, but higher molecular weight versions provide more attachment sites per molecule.

Actions biochimiques/physiologiques

Poly-L-lysine is a nonspecific attachment factor for cells useful in promoting cell adhesion to solid substrates by enhancing electrostatic interaction between negatively charged ions of the cell membrane and the culture surface. When it is absorbed to

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Composants

Poly-L-lysine is a positively charged amino acid polymer with approximately one HBr per lysine residue. The hydrobromide allows the poly-L-lysine to be in a crystalline form soluble in water. A small amount of product may be found in the beta structure because the HBr interferes with hydrogen bonding between amino and either the carboxyl groups or N or O containing moieties.

Notes préparatoires

This product is supplied as a 0.01% sterile filtered solution in water. Coating slides with this solution should be followed with a 5 minute incubation and drying the slides at room temperature. Coated slides will be stable for one year if protected from dust.

PRODUITS APPARENTÉS

Produit Apparenté

08168

Timestrip Plus™ 8 °C

[View Pricing](#)

Produit Comparable

P6407

Poly-D-lysine hydrobromide, mol wt 70,000-150,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

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Poly-D-lysine hydrobromide, average mol wt 30,000-70,000, lyophilized powder, γ -irradiated, BioReagent, suitable for cell culture

[View Pricing](#)**P4832**

Poly-L-lysine solution, mol wt 150,000-300,000, 0.01%, sterile-filtered, BioReagent, suitable for cell culture

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 2

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

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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)

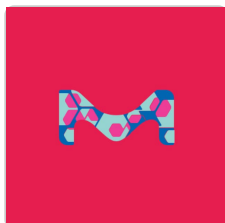
Rechercher

Plus De Documents

Spectra for FT-IR Raman

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

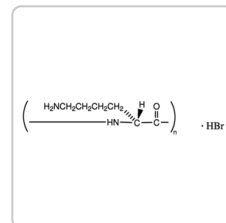


Sigma-Aldrich

P0425

Poly-Prep Slides

poly-L-lysine coated glass slides



Sigma-Aldrich

P7405

Poly-D-lysine hydrobromide

mol wt >300,000, lyophilized powder, γ-irradiated, BioReagent, suitable for cell culture

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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.

What is the concentration of Product P4707, Poly-L-Lysine solution?

This product is supplied as a 0.01% w/v solution.

What molecular weight Poly-L-Lysine product should I choose?

The lower molecular weight poly-L-lysine (30-70 kDa) is easier to use because it is less viscous in solution, but the higher molecular weight poly-L-lysine (>300 kDa) provides more attachment sites per molecule. The mid-range product has a molecular weight range of 70-150 kDa.

Should I use Poly-L-Lysine or Poly-D-Lysine?

Certain cells secrete proteases, which can digest poly-L-lysine. For those cell types, poly-D-lysine should be used.

What is the protocol for using Product P4707, Poly-L-Lysine solution, to coat slides?

For coating slides with poly-L-lysine, in general, it is recommended to use a 0.01% (w/v) solution. After a 5 minute incubation, the excess solution is removed and the slides are dried at room temperature or in an oven at gentle heat.

What is the protocol for using Product P4707, Poly-L-Lysine solution, to coat tissue culture plasticware?

A solution of 0.1 mg/mL is prepared; 0.5 mL of that solution is aseptically transferred to a non-tissue culture treated 25 square cm flask. The flask is gently rocked to evenly coat the surface. After five minutes, the excess solution is removed and the surface is thoroughly rinsed with sterile water and allowed to dry for several hours.

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How should I dilute Product P4707, Poly-L-Lysine solution?

For coating slides with poly-L-lysine, in general, it is recommended to use a 0.01% (w/v) solution. However, if your protocol requires a more dilute solution, you can add sterile water or sterile buffer like Phosphate Buffered Saline.

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.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

All polymer chip for amperometric studies of transmitter release from large groups of neuronal cells.

Larsen ST and Taboryski R
Analyst, 137, 5057-5057 (2012)

Promiscuous dimerization of the growth hormone secretagogue receptor (GHS-R1a) attenuates ghrelin-mediated signaling.

Schellekens H et al.
The Journal of Biological Chemistry, 288, 181-181 (2013)

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Histological characterization of orphan transporter MCT14 (SLC16A14) shows abundant expression in mouse CNS and kidney.

Sahar Roshanbin et al.

BMC neuroscience, 17(1), 43-43 (2016-07-02)

MCT14 (SLC16A14) is an orphan member of the monocarboxylate transporter (MCT) family, also known as the SLC16 family of secondary active transmembrane transporters. Available expression data for this transporter is limited, and in this paper we aim to characterize MCT14

Wnt signaling through inhibition of β -catenin degradation in an intact Axin1 complex.

Vivian S W Li et al.

Cell, 149(6), 1245-1256 (2012-06-12)

Degradation of cytosolic β -catenin by the APC/Axin1 destruction complex represents the key regulated step of the Wnt pathway. It is incompletely understood how the Axin1 complex exerts its Wnt-regulated function. Here, we examine the mechanism of Wnt signaling under endogenous

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

[Poly-lysine](#) | [Poly-D-Lysine](#) | [Poly-L-Lysine](#)

Poly-Lysine enhances electrostatic interaction between negatively-charged ions of the cell membrane and positively-charged surface ions of attachment factors on the culture surface. When adsorbed to the culture surface, it increases the number of positively-charged sites available for...

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Cancer Stem Cells: targets for cancer therapy

Cancer stem cell media, spheroid plates and cancer stem cell markers to culture and characterize CSC populations.

Extracellular Matrix Proteins and Tools for Cell Culture Optimization

Extracellular matrix proteins such as laminin, collagen, and fibronectin can be used as cell attachment substrates in cell culture.

Protocoles

Poly-L-Lysine Cell Attachment Protocol

Adhere cells to solid substrates using poly-lysine, which enhances electrostatic interaction between negatively charged ions of the cell membrane and the culture surface.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

P4716

Pectinase from *Aspergillus niger*

BioReagent, suitable for plant cell culture, aqueous glycerol solution, ≥ 5 units/mg protein (Lowry)

Consulter le prix et la disponibilité



Sigma-Aldrich

P4638

Poly-L-ornithine hydrobromide

mol wt >100,000

Consulter le prix et la disponibilité

Évaluations

Rédiger une évaluation

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5 ★		1
4 ★		0
3 ★		0
2 ★		0
1 ★		0

Notes moyennes des clients

Générale

★★★★★

5.0

1 AVIS AVEC NOTES UNIQUEMENT

★★★★★

5.0

|

1 avis

Rechercher des questions et des réponses	🔍	1 avis	0 questions	0 réponses
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Questions

Soyez le premier à poser une question

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