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COO/COA



Fiche des
caractéristiques

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A0701 ► Sigma-Aldrich.

Agarose, low gelling temperature

★★★★★ (0)

Type VII-A

Synonyme(s):

2-Hydroxyethyl agarose

Numéro CAS:

39346-81-1

Numéro MDL:

MFCD00081294

NACRES:

NA.21

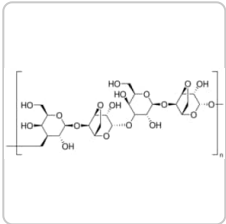
Référence	Conditionnement	Disponibilité		Prix	Quantité
A0701-25G	25 G	✓ Only 3 left in stock (more on the way)	Détails...	441,00 €	- + i
A0701-100G	100 G	✓ Only 1 left in stock (more on the way)	Détails...	1420,00 €	- + i

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Ajouter au panier

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PRODUITS RECOMMANDÉS



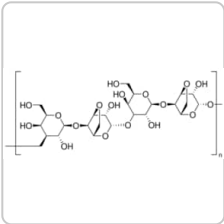
Sigma-Aldrich

A9045

Agarose, low gelling temperature

BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

A9414

Agarose, low gelling temperature

BioReagent, for molecular biology

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Type	Type VII-A
Niveau de qualité	200
Forme	powder
technique(s)	electrophoresis: suitable
Impuretés	≤7% water
Cendres	≤0.4%
Turbidité	≤4 NTU (1.5% gel)
EEO	≤0.12
Pf	65 °C±1 °C

Temp. de transition gel point 26 °C ±2 °C (1.5% gel)

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Résistance du gel	$\geq 250 \text{ g/cm}^2$ (1% gel)
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Traces d'anions	sulfate (SO_4^{2-}): $\leq 0.4\%$
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Catégories apparentées

[Agarose: Properties and Research Applications](#)

DESCRIPTION

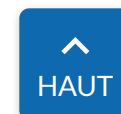
Description générale

Agarose is a polymer extracted from agar or agar-bearing marine algae. This purified linear galactan hydrocolloid comprises alternating co-polymers D-galactose and 3,6-anhydro-L-galactopyranose units connected by α -(1 $\rightarrow$ 3) and β -(1 $\rightarrow$ 4) glycosidic bonds. Agarose is highly biocompatible due to its variable mechanical and diffusion properties.

Application

Excellent for in-gel enzymatic reactions and cloning assays and for recovery of heat-labile samples after electrophoresis
Agarose has been used:

- to encapsulate Escherichia coli on a hydrogel in tissue culture
- to entrap Aliivibrio fischeri on a disposable card involved in designing of toxicity biosensors
- as a the dispersed phase of emulsion during preparation agar beads



Conditionnement

25, 100 g in poly bottle

Actions biochimiques/physiologiques

Agarose can be used as a gelling agent, to separate nucleic acids electrophoretically because its gels have larger pore sizes than polyacrylamide gels at low concentrations. Unlike polyacrylamide, the consistency of the gels is more solid (but also less elastic) It is also employed to determine cross reaction in immunoelectrophoresis (IEP) and Ouchterlony (double diffusion) plates in which antibody-antigen precipitin lines are studied. Agarose is used to make gel plates or overlays for cells in tissue culture. In addition, it is also used to form a gel matrix (either beaded and/or crosslinked) which can be used in chromatographic separations.

Remarque sur l'analyse

The following is a list of properties associated with our agaroses:

Sulfate content - used as an indicator of purity, since sulfate is the major ionic group present.

Gel strength - the force that must be applied to a gel to cause it to fracture.

Gel point - the temperature at which an aqueous agarose solution forms a gel as it cools. Agarose solutions exhibit hysteresis in the liquid-to-gel transition - that is, their gel point is not the same as their melting temperature.

Electroendosmosis (EEO) - a movement of liquid through the gel. Anionic groups in an agarose gel are affixed to the matrix and cannot move, but dissociable counter cations can migrate toward the cathode in the matrix, giving rise to EEO. Since electrophoretic movement of biopolymers is usually toward the anode, EEO can disrupt separations because of internal convection.

Produits recommandés

Discover LiChropur reagents ideal for [HPLC](#) or [LC-MS](#) analysis

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INFORMATIONS SUR LA SÉCURITÉ

**Code de la classe de
stockage**

WGK
WGK 3

Flash Point(F)
Not applicable

Point d'éclair C
Not applicable

13 - Non Combustible Solids

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

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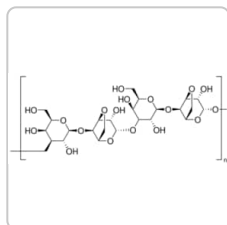
Comment saisir un numéro de lot (COO)

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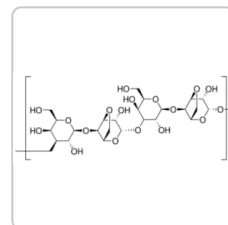
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

A9539**Agarose**

BioReagent, for molecular biology, low EEO

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Sigma-Aldrich

A3643**Agarose**

Type IV, Special High EEO

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Numerical modeling of the dynamic response of a bioluminescent bacterial biosensor.

Mahmoud Affi et al.*Analytical and bioanalytical chemistry*, 408(30), 8761-8770 (2016-04-05)

Water quality and water management are worldwide issues. The analysis of pollutants and in particular, heavy metals, is generally conducted by sensitive but expensive physicochemical methods. Other alternative methods of analysis, such as microbial biosensors, have been developed for their

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Design of a toxicity biosensor based on *Aliivibrio fischeri* entrapped in a disposable card

Jouanneau, S, et al.*Environmental Science and Pollution Research International*, 23(5), 4340-4345 (2016)

Extracting cell stiffness from real-time deformability cytometry: theory and experiment

Mietke A, et al.*Biophysical Journal*, 109(10), 2023-2036 (2015)

Lhx1 is required for specification of the renal progenitor cell field.

M Cecilia Cirio et al.*PloS one*, 6(4), e18858-e18858 (2011-04-29)

In the vertebrate embryo, the kidney is derived from the intermediate mesoderm. The LIM-class homeobox transcription factor *lhx1* is expressed early in the intermediate mesoderm and is one of the first genes to be expressed in the nephric mesenchyme. In

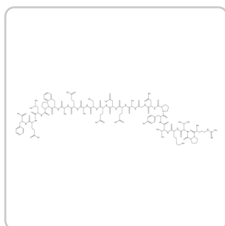
Targeted mutagenesis in a human-parasitic nematode.

Spencer S Gang et al.*PLoS pathogens*, 13(10), e1006675-e1006675 (2017-10-11)

Parasitic nematodes infect over 1 billion people worldwide and cause some of the most common neglected tropical diseases. Despite their prevalence, our understanding of the biology of parasitic nematodes has been limited by the lack of tools for genetic intervention.

[Afficher tous les articles scientifiques apparentés](#)

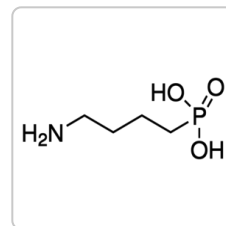
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

A0673**Adrenocorticotrophic Hormone Fragment 18-39
human**

≥97% (HPLC)



Sigma-Aldrich

A0664**4-Aminobutylphosphonic acid**

≥99%


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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..

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