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



G1910 ▶ **Sigma-Aldrich**

Gelzan™ CM

★★★★★ (0)

Gelrite®



[Toutes les photos](#) (2)

Synonyme(s):

Gellan Gum, Agar substitute gelling agent

Numéro CAS:

71010-52-1

Numéro EC:

275-117-5

Numéro MDL:

MFCD00131909

NACRES:

NA.72

Select an Option

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250 G

221,00 €



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

—

1

+

Ajouter au panier

Demander une commande en gros

Documents

- ↓ FDS
- 🔍 COO/COA
- 📄 Fiche des caractéristiques

PRODUITS RECOMMANDÉS



Sigma-Aldrich
P8169
Phytagel™
BioReagent, suitable for plant cell culture, powder

Consulter le prix et la disponibilité

PROPRIÉTÉS

Niveau de qualité

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Catégories apparentées

[Plant Culture Reagents](#)

DESCRIPTION

Description générale

Gelrite, gellan gum, is recommended as a gelling agent for use in place of agar in microbiological assay and tissue culture media. Gellan gum is used in a wide variety of immobilization matrices. It forms a hard gel at low concentrations in the presence of an electrolyte. Gellan is a linear tetrasaccharide composed of D-glucose, L-rhamnose, and D-glucuronic acid in the ratio of 2:1:1, linked by β (1 $\rightarrow$ 4) glycosidic bond.

Application

Gelrite, gellan gum, is recommended as a gelling agent for use in place of agar in microbiological media. Gellan gum is used in a wide variety of immobilization matrices.

Gelzan™ CM has been used:

- in the synthesis of gellan-pullulan nanogel via chemical crosslinking
- in the synthesis of gellan-pullulan hydrogel
- with KNOP medium to maintain and prepare *Anthoceros agrestis* thallus tissue sample for imaging

Conditionnement

250 g in poly bottle

1, 5 kg in poly drum

Caractéristiques et avantages

- Transparent and colorless agar alternative
- Mechanically robust
- Disperses in water with ease

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**Informations légales**

Gelrite is a registered trademark of CP Kelco U.S., Inc.

Gelzan is a trademark of CP Kelco U.S., Inc.

INFORMATIONS SUR LA SÉCURITÉ**Code de la classe de stockage**

11 - Combustible Solids

WGK

WGK 2

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

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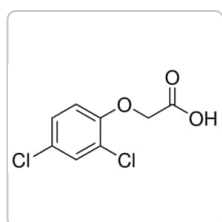


e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

D7299

2,4-Dichlorophenoxyacetic acid

≥95%, crystalline

Consulter le prix et la disponibilité

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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 difference between Product G1910, Gelzan CM and Gelrite?

The products are chemically the same. However, Gelzan CM is produced through a new and more efficient process. There are some slight differences in the specifications of the two products.

What is Product G1910, Gelzan CM?

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The lots of this product are not assigned expiration dates. The guarantee of quality is one year from the time of delivery for unopened bottles stored at room temperature.

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.

How do I use Product G1910, Gelzan™ CM?

The G1910 is added to well-stirred water, and the dispersion heated to 85-90°C to ensure full hydration. To form a gel, the necessary amount of electrolyte, such as potassium citrate or calcium chloride, is added to the solution at 85°C and the mixture is poured or pumped into containers and allowed to cool undisturbed. The product is biodegradable, so a biocide is recommended. The typical use level is 0.2 to 2.0%.

Is Product G1910, Gelzan™ CM, different than Gelrite?

The G1910 is chemically the same as Gelrite, which is no longer produced. Both items are trademarked to CP Kelco U.S., Inc. They are both Gellan Gum, but the manufacturer has different specifications for these items.

What is the gel strength of Product G1910, Gelzan™ CM?

The gel strength as determined by the vendor is between 400-700 g/cm².

What is the particle size of Product G1910, Gelzan™ CM?

The vendor supplied particle size is 42 mesh, or about 355 µm, with a specification of not less than 95% through. This means that at least 95% of the particles should be smaller than 355 microns in diameter.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Mineralization of gellan gum hydrogels with calcium and magnesium carbonates by alternate soaking in solutions of calcium/magnesium and carbonate ion solutions.

Marco A Lopez-Heredia et al.

Journal of tissue engineering and regenerative medicine, 12(8), 1825-1834 (2018-04-28)

Mineralization of hydrogels is desirable prior to applications in bone regeneration. CaCO₃ is a widely used bone regeneration material, and Mg, when used as a component of calcium phosphate biomaterials, has promoted bone-forming cell adhesion and proliferation and bone regeneration.

Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: Physiochemical and microcomputer tomographical characterization.

Timothy E L Douglas et al.

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This maintains injectability. One common form of bone cement is formed by mixing particles

Increased gelling agent concentration promotes somatic embryo maturation in hybrid larch (*Larix × eurolepis*): a 2-DE proteomic analysis.

Caroline Teyssier et al.

Physiologia plantarum, 141(2), 152-165 (2010-10-26)

An integrated physiological and proteomic approach was used to investigate the effects of high gellan gum concentration in the medium during maturation of somatic embryos (SE) of hybrid larch, by comparing embryos incubated in media with a high gellan gum

Genomic Diversity of Two Hydrocarbon-Degrading and Plant Growth-Promoting *Pseudomonas* Species Isolated from the Oil Field of Bóbrka (Poland).

Valeria Imperato et al.

Genes, 10(6) (2019-06-20)

Hydrocarbon-degrading bacteria are important resources for use in phytoremediation applications. Yet, for many hydrocarbonoclastic strains the genetic information regarding pollutant degradation and detoxification has not been thoroughly revealed. In this study, hydrocarbon-degrading bacteria were isolated from a long-term oil-polluted soil

Confocal multiview light-sheet microscopy.

Gustavo de Medeiros et al.

Nature communications, 6, 8881-8881 (2015-11-26)

Selective-plane illumination microscopy has proven to be a powerful imaging technique due to its unsurpassed acquisition speed and gentle optical sectioning. However, even in the case of multiview imaging techniques that illuminate and image the sample from multiple directions, light

Afficher tous les articles scientifiques apparentés

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G1890

Gelatin from porcine skin

powder, gel strength ~300 g Bloom, Type A, BioReagent, suitable for electrophoresis, suitable for cell culture

[Consulter le prix et la disponibilité](#)

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Questions

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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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