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



G2500 ► Sigma-Aldrich®

Gelatin from porcine skin

★★★★★ (0)

gel strength 300, Type A



Toutes les photos (3)

Synonyme(s):

Folipastatin

Numéro CAS:

9000-70-8

Numéro EC:

232-554-6

Numéro MDL:

MFCD00081638

NACRES:

NA.61

Select an Option

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100 G

54,50 €Disponible pour expédition le 10 octobre 2022 - [De](#)

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[Ajouter au panier](#)[Demander une commande en gros](#)**Documents**[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents >>](#)**PRODUITS RECOMMANDÉS****Sigma-Aldrich****G1890****Gelatin from porcine skin**

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

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Source biologique

Porcine skin

Niveau de qualité

200

Type

Type A

Essai/Dosage

70-90% (biuret)

Forme

powder

technique(s)

cell culture | mammalian: suitable

Résistance du gel

~300 g Bloom

Solubilité

H₂O: soluble 50 mg/mL

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DESCRIPTION

Description générale

Gelatin is a hydrocolloid. Bovine or porcine bone and hide are its commercial sources. It is a collagen derivative and comprises protein as a major component with minerals and water.

Application

Gelatin from porcine skin has been used:

- for coating glass-bottomed plates for culturing A375 cells and in gelatin degradation assay
- for coating glass slides in the histological studies with brain sections
- in the synthesis of gelatin methacrylate (GelMA) prepolymer for encapsulating cells on to 3D printed hydrogels

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Gelatin from porcine skin is recommended for use as a cell culture substratum at 1-5 $\mu\text{g}/\text{cm}^2$ or 0.5-50 $\mu\text{g}/\text{mL}$. The optimal concentration does depend on cell type as well as the application and research objectives.

Conditionnement

100, 500 g in poly bottle

1 kg in poly bottle

Actions biochimiques/physiologiques

Gelatin polymer is an alternative biomaterial to collagen for cell and tissue culture. It is a much sorted gelling agent useful as a thickener and food ingredient. Gelatin is also used as a foaming and binding agent and as well as in the pharmaceutical industry. It is biodegradable and biocompatible with biomedical applications especially in biomaterials for cardiac and vascular tissue regeneration.

Composants

Gelatin is a heterogeneous mixture of water-soluble proteins of high average molecular masses, present in collagen. Proteins are extracted by boiling the relevant skin, tendons, ligaments, bones, etc. in water. Type A gelatin is derived from acid-cured tissue. Type B is derived from lime-cured tissue.

Attention

Dry gelatin, when stored in airtight containers at room temperature, will remain unchanged for many years. When heated at 100°C in the presence of air, it swells becomes soft and disintegrates to a carbonaceous mass with evolution of pyridine bases and ammonia.

Notes préparatoires

This product is derived from porcine skin. Gelatin is soluble in hot than in cold water. It is practically insoluble in most organic solvents such as alcohol, chloroform, carbon disulfide, carbon tetrachloride, ether, benzene, acetone, and oils. The Bloom number, determined by the Bloom gelometer, is an indication of the strength of a gel formed from a solution of the known concentration. The Bloom number is proportional to the average molecular mass. Bloom numbers of porcine skin Gelatin vary from 90 to 300 g. This product has a gell strength of 300 and is soluble in water at 50 mg/mL.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

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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)

Rechercher

Plus De Documents

[Spectra for FT-IR Raman](#)

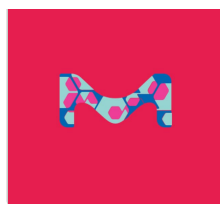
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48723

Gelatin

tested according to Ph. Eur.

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ARTICLES REVUS PAR DES PAIRS

Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization.

Gabriele Pitingolo et al.

Micromachines, 10(4) (2019-04-24)

Traditional two-dimensional (2D) cell culture models are limited in their ability to reproduce human structures and functions. On the contrary, three-dimensional (3D) microtissues have the potential to permit the development of new cell-based assays as advanced in vitro models to

Tissue-mimicking gelatin scaffolds by alginate sacrificial templates for adipose tissue engineering.

Nicola Contessi Negrini et al.

Acta biomaterialia, 87, 61-75 (2019-01-18)

When adipose tissue (AT) is impaired by trauma or disease, AT engineering could provide a shelf-ready structural and functional restoration as alternative to current clinical treatments, which mainly aim at aesthetic replacement. Yet, the lack of an efficient vascular network

Presynaptic NR2A-containing NMDA receptors implement a high-pass filter synaptic plasticity rule.

Céline Bidoret et al.

Proceedings of the National Academy of Sciences of the United States of America, 106(33), 14126-14131 (2009-08-12)

The detailed characterization of synaptic plasticity has led to the replacement of simple Hebbian rules by more complex rules depending on the order of presynaptic and postsynaptic action potentials. Here, we describe a mechanism endowing a plasticity rule with additional

Golgi-Cox Staining Step by Step.

Sami Zaqout et al.

Frontiers in neuroanatomy, 10, 38-38 (2016-04-12)

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Quantitative differences among various proteins as blocking agents for ELISA microtiter plates.

R F Vogt et al.

Journal of immunological methods, 101(1), 43-50 (1987-07-16)

We tested instantized dry milk, casein, gelatins from pig and fish skin, serum albumin and several other proteins for their abilities to block non-specific binding (NSB) of a peroxidase-conjugated immunoglobulin to polystyrene microtiter plate wells. Each blocking protein was tested

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

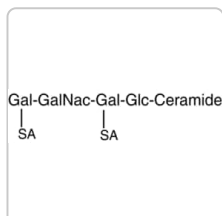
Photo-Crosslinkable Gelatin Hydrogel: Versatile Materials for (High Resolution) Additive Manufacturing

Discussion of synthetic modifications to gelatin, improving the three-dimensional (3D) print resolution, and resulting material properties.

Papain, Cysteine Protease, Properties & Products

Papain is a cysteine protease of the peptidase C1 family. Papain consists of a single polypeptide chain with three disulfide bridges and a sulfhydryl group necessary for activity of the enzyme.

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

G2392

Disialoganglioside GD_{1a} from bovine brain

≥95% (TLC), lyophilized powder

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