

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

[Toutes les photos \(2\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**G9391** ▶ **Sigma-Aldrich**

Gelatin from bovine skin

★★★★★ (0)

Type B, powder, BioReagent, suitable for cell culture

Numéro CAS: **9000-70-8**Numéro EC: **232-554-6**Numéro MDL: **MFCD00081638**

NACRES: NA.75

Référence	Conditionnement	Disponibilité	Prix	Quantité
G9391-100G	100 G	✓ Only 6 left in stock (more on the way) Détails...	64,00 €	- + i
G9391-500G	500 G	✓ Only 2 left in stock (more on the way) Détails...	244,00 €	- + i

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PRODUITS RECOMMANDÉS

Sigma-Aldrich

Sigma-Aldrich



G2500

Gelatin from porcine skin

gel strength 300, Type A

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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](#)



PROPRIÉTÉS

Source biologique	bovine skin
Niveau de qualité	200
Stérilité	sterile
Type	Type B
Gamme de produits	BioReagent
Forme	powder
Conditionnement	pkg of 100 g pkg of 500 g
technique(s)	cell culture mammalian: suitable
Résistance du gel	~225 g Bloom

SOLUBILITY

H₂O: soluble 50 mg/mL, hazy to strongly hazy, faintly yellow to yellow

Expédié(e)(s) dans

ambient

Temp. de stockage

room temp

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

Catégories apparentées

[Attachment Factors](#)

DESCRIPTION

Description générale

Gelatin is a hydrocolloid and is rich in glycine, proline and hydroxyproline, which impart structural stability. It is synthesized from the alkaline digestion of collagen from bovine skin and is referred to as type B. It has wide applications in food industry. Gelatin takes up random coil structure after digestion from the triple helical collagen. The most common source for industrial production of gelatin is slaughter byproducts. The type A gelatin from porcine and type B differ in their isoelectric pH. The N-terminal sequence of bovine gelatin is unique for its identification. It has gelling property and displays surface behaviour for use in foams and adhesions.

Application

Gelatin has been used in many applications. It has use in coating cell culture to improve attachment of cells, being added to PCR to stabilize Taq DNA, as a blocking reagent in Western blotting, ELISA, and immunochemistry, and as a component of media for species differentiation in bacteriology. As a biocompatible polymer, it has been used as a delivery vehicle for release of active biomolecules and in the generation of scaffolds for tissue engineering applications. It has also been used to study long-chain fatty

acid-induced changes in gene expression in neonatal cardiac monocytes and to study to test mobilization of capillary endothelium *in-vitro* induced by effectors of angiogenesis *in vivo*. This product is recommended for use as a cell culture substratum at 1-5 µg/cm² or 0.5-50 µg/mL. The optimal concentration does depend on cell type as well as the application and research objectives.

Conditionnement

100, 500 g in poly bottle

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 bovine 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.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de

WGK

Équipement de protection

stockage

11 - Combustible Solids

nwg

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

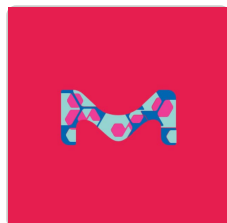
e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

48723

Gelatin

tested according to Ph. Eur.

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Sigma-Aldrich

G2625

Gelatin from porcine skin

gel strength ~175 g Bloom, Type A

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

bFGF-containing electrospun gelatin scaffolds with controlled nano-architectural features for directed angiogenesis

Montero RB, et al.

Acta Biomaterialia, 8(5), 1778-1791 (2012)

Circular Dichroism Spectroscopy of Collagen Fibrillogenesis: A New Use for an Old Technique.

Kathryn E Drzewiecki et al.

Biophysical journal, 111(11), 2377-2386 (2016-12-08)

Type-I collagen assembles in a stepwise, hierarchic fashion from the folding of the triple helix to the assembly of fibrils into fibers. The mature assembled fibers are crucial for tissue structure and mechanics, cell interactions, and other functions in vivo. Although triple

Directing the Self-assembly of Tumour Spheroids by Bioprinting Cellular Heterogeneous Models within Alginate/Gelatin Hydrogels.

Tao Jiang et al.

Scientific reports, 7(1), 4575-4575 (2017-07-06)

Human tumour progression is a dynamic process involving diverse biological and biochemical events such as genetic mutation and selection in addition to physical, chemical, and mechanical events occurring between cells and the tumour microenvironment. Using 3D bioprinting we have developed

A microparticle approach to morphogen delivery within pluripotent stem cell aggregates

Bratt-Leal AM, et al.

Biomaterials, 34(30), 7227-7235 (2013)

Chemical and functional properties of bovine and porcine skin gelatin

Hafidz RMRN, et al.

International food research journal., 18(2011), 813-817 (2011)

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

[Attachment Factors for 3-Dimensional Cell Culture](#)

Attachment Factors for 3-Dimensional Cell Culture

[What is the Extracellular Matrix?](#)

The extracellular matrix (ECM) is secreted by cells and surrounds them in tissues.

[Cancer Stem Cells: Targets for Cancer Therapy](#)

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

Protocoles

Gelatin Coating Protocol for Cell Culture

This gelatin coating protocol for cell culture applications offers information regarding types of gelatin, surface coverage concentration, and tips for optimization.

PRODUITS CONSULTÉS RÉCEMMENT



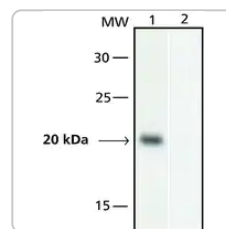
Sigma-Aldrich

G9382

Gelatin from bovine skin

gel strength ~225 g Bloom, Type B

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Sigma-Aldrich

G9293

**Anti-GAL4, Activation domain antibody
produced in rabbit**

~1.0 mg/mL, affinity isolated antibody, buffered aqueous
solution

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Évaluations

★★★★★

[Soyez le premier à donner votre avis sur ce produit](#)

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..

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