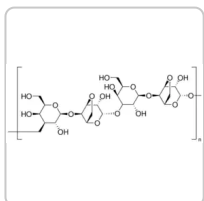


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Agarose

★★★★★ 5.0 (1)

BioReagent, for molecular biology, low EEO

CAS Number: **9012-36-6**

EC Number: **232-731-8**

MDL number: **MFCD00081294**

PubChem Substance ID: **24891469**

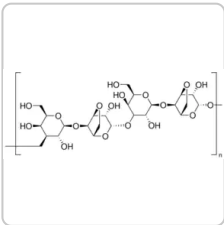
NACRES: NA.25

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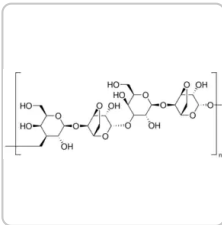
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RECOMMENDED PRODUCTS



Sigma-Aldrich
A4718
Agarose
for molecular biology

[View Price and Availability](#)



Sigma-Aldrich
A6013
Agarose
Type I, low EEO

[View Price and Availability](#)

PROPERTIES

biological source	algae (marine)
Quality Level	200
grade	for molecular biology
product line	BioReagent
form	powder
technique(s)	electrophoresis: suitable

impurities	≤10% moisture content
EEO	0.09-0.13
transition temp	gel point 36 °C ±1.5 °C (1.5% gel)
gel strength	≥1200 g/cm ² (1% gel)
anion traces	sulfate (SO ₄ ²⁻): ≤0.15%
foreign activity	DNase, RNase, none detected
InChI	1S/C24H38O19/c25-1-5-9(27)11(29)12(30)22(38-5)41-17-8-4-36-20(17)15(33)24(40-8)43-18-10(28)6(2-26)39-23(14(18)32)42-16-7-3-35-19(16)13(31)21(34)37-7/h5-34H,1-4H2/t5-,6-,7+,8+,9+,10+,11+,12-,13+,14-,15+,16-,17-,18+,19+,20+,21-,22+,23+,24+/m1/s1
InChI key	MJQHZNBUDTQTK-WKGBVCLCSA-N

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Related Categories

[Agarose: Properties and Research Applications](#)

DESCRIPTION

Packaging

10, 25, 50, 100, 250, 500 g in poly bottle

Application

Routine use agarose is ideal for everyday analysis of nucleic acids by gel electrophoresis or blotting (Northern or Southern) and is also suitable for protein applications such as Ouchterlony and radial immunodiffusion (RID). Has low ethidium bromide and SYBR Green background staining.

Analysis Note

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.

RELATED PRODUCTS

Also Commonly Purchased With This Product

E7637

Ethidium bromide, BioReagent, for molecular biology, powder

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T1503

Trizma[®] base, Primary Standard and Buffer, ≥99.9% (titration), crystalline

[View Pricing](#)**T6066**

Trizma[®] base, BioPerformance Certified, meets EP, USP testing specifications, suitable for cell culture, ≥99.9% (titration)

[View Pricing](#)**DNTP100**

Deoxynucleotide Set, 100 mM, Individual dNTPs for routine PCR; 0.25 mL each

[View Pricing](#)**A2549**

Tape, autoclave indicator, Sigmaware[™], impregnated to show words Autoclaved

[View Pricing](#)

SAFETY INFORMATION

Storage Class Code

11 - Combustible Solids

WGK

WGK 1

Flash Point(F)

Not applicable

Flash Point(C)

Not applicable

**Personal Protective
Equipment**

dust mask type N95 (US),

Eyeshields, Gloves

DOCUMENTATION

Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

How to enter Lot Number (COA)

Search

Certificate of Origin

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Lot Number

e.g. 023J5431

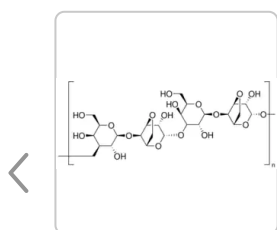
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A0576

Agarose

Low EEO

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Millipore

1.16802

Agarose

(low electroendosmosis) for electrophoresis

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PEER REVIEWED PAPERS

[Novel in vivo experimental viability assays with high sensitivity and throughput capacity using a bdelloid rotifer.](#)

Zita Olah et al.

Ecotoxicology and environmental safety, 144, 115-122 (2017-06-13)

Rotifers have been used in biological research as well-characterized models of aging. Their multi-organ characters and their sensitivity for chemicals and environmental changes make them useful as in vivo toxicological and lifespan models. Our aim was to create a bdelloid

Stephen AM and Phillips GO

Food Sci. Technol., 160 (2006)

Novel protective and risk loci in hip dysplasia in German Shepherds.

Lea I Mikkola et al.

PLoS genetics, 15(7), e1008197-e1008197 (2019-07-20)

Canine hip dysplasia is a common, non-congenital, complex and hereditary disorder. It can inflict severe pain via secondary osteoarthritis and lead to euthanasia. An analogous disorder exists in humans. The genetic background of hip dysplasia in both species has remained

Calibration of colloidal probes with atomic force microscopy for micromechanical assessment.

Lukas Kain et al.

Journal of the mechanical behavior of biomedical materials, 85, 225-236 (2018-06-23)

Mechanical assessment of biological materials and tissue-engineered scaffolds is increasingly focusing at lower length scale levels. Amongst other techniques, atomic force microscopy (AFM) has gained popularity as an instrument to interrogate material properties, such as the indentation modulus, at the

C9orf72, a protein associated with amyotrophic lateral sclerosis (ALS) is a guanine nucleotide exchange factor.

Shalini Iyer et al.

PeerJ, 6, e5815-e5815 (2018-10-26)

Amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD), two late onset neurodegenerative diseases, have been shown to share overlapping cellular pathologies and genetic origins. Studies suggest that a hexanucleotide repeat expansion in the first intron of the C9orf72 gene is

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PROTOCOLS AND ARTICLES

Protocols

[GenElute™ Blood Genomic DNA Kit Protocol](#)

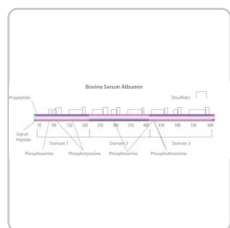
[GenElute™ Mammalian Genomic DNA Miniprep Kit Protocol](#)

The GenElute Mammalian Genomic DNA Purification Kit Protocol describes the isolation of pure, high molecular weight DNA from a variety of mammalian sources.

GenElute™ Bacterial Genomic DNA Kit Protocol (NA2100, NA2110, NA2120)

GenElute™ Bacterial Genomic DNA Kit protocol describes a simple and convenient way for the isolation of pure genomic DNA from bacteria.

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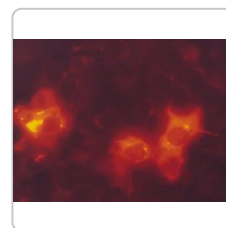
Sigma-Aldrich

A9576

Bovine Serum Albumin solution

30% in DPBS, sterile-filtered, BioXtra, suitable for cell culture

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Sigma-Aldrich

A9594

**Monoclonal ANTI-FLAG® M2-Cy3™ antibody
produced in mouse**

clone M2, purified immunoglobulin, buffered aqueous solution
(Supplied as a solution in 10 mM sodium phosphate)

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★★★★★ 5.0 | [1 Review](#)



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