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NORTH AMERICA

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AgaTabs EP-0030-15 • EP-0030-SA

Eurogentec products are sold for research or laboratory use only and are not to be administered to humans or used for medical diagnostics.

Description

Agatabs is a molecular Biology Grade agarose provided as a tablet format; You don't need to weight it and you avoid cross contamination.

Agarose is a purified linear galactan hydrocolloid isolated from agar or agar-bearing marine algae.

Structurally, it is a linear polymer consisting of alternating D-galactose and 3,6-anhydro-L-galactose units.

As a gelling agent, agarose is used:

1. 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);
2. To demonstrate cross reaction in IEP (Immuno electrophoresis) and Ouchterlony (double diffusion) plates in which antibody-antigen precipitin lines are studied;
- 3 To make gel plates or overlays for cells in tissue culture.
- 4.) To form a gel matrix (either beaded and/or crosslinked) which can be used in chromatographic separations.

Package contents

Reagent	Reference	Description
Agatabs	EP-0030-15 EP-0030-SA	300 tablets (0,5g/tablet) 5 tablets (05g/tablet)

Shipping conditions

Shipped at room temperature.

Storage conditions and stability

Stored at room temperature.

Quality control

Each lot is tested for Dnase, Rnase activity, melting point, gelation temperature, gel strength, electroendosmosis and absence of sulfate.

Description	Value
Nucleic acid length range	>1000bp
Gelling temperature	37-39°C
Melting Temperature	88-90°C
Gel Strength	<1500 g/cm ²
DNase or RNase activity	ND
DNA binding	ND
Electroendosmosis	0.05-0.1
Sulfate	<0.1%

Related Products

Reagent	Package size	Reference
Molecular Biology Grade Agarose	100 g	EP-0010-01
	500 g	EP-0010-05
MupidOne® electrophoresis system	1	MU-0041
SmartLadder DNA Ladder	1000 lanes	MW-1700-10

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Protocol

1. Add the required number of AgaTabs to the required volume of TAE or TBE buffer. One AgaTab = 0.5 g of Molecular Biology Grade Agarose

For example:

Agarose Concentration (%W/V)	DNA fragment range (kb)	AgaTabs	Final Volume
0.7	0.8-12	2	140 mL
1.0	0.5-10	2	100 mL
1.5	0.2-3	3	100 mL
2.0	0.1-2	4	100 mL

The percentage of gel used depends on the size of DNA to be separated. Low percentage gel separates high MW. DNA while high percentage gel separates low M.W. DNA

2. Leave the solution for 3-5 minutes at room temperature to allow the AgaTabs to fall apart

3. Shake the solution to mix

4. Heat the solution carefully and shake it to dissolve the agarose (500 W is recommended if microwave is used)

5. Pour the agarose onto the gel tray

!!! Do not heat AgaTabs before they have fallen apart, as this will reduce the homogeneity of your agarose gel.

Useful Information

Buffer	Concentration/Composition of working solution	Composition of 1 L stock solution
TAE	1x : 40 mM Tris-acetate, 1mM EDTA	50 x: 242 g Tris base, 57.1 ml glacial acetic acid, 100 ml 0.5 M EDTA, pH 8
TBE	0.5 x : 45 mM Tris-borate, 1mMEDTA	5 x: 54 g Tris base, 27.5g boric acid, 20ml 0.5mM EDTA, pH 8

For further information please contact our Customer Help Desk:

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