

# chemicals and reagents

## HIGH GRADE AGAROSE

- **LOW EEO GENERAL PURPOSE AGAROSE RESOLVES 100BP TO 25KB IN SIZE**
- **LOW MELTING POINT – FOR NUCLEIC ACID RECOVERY – TYPICALLY RESOLVES FRAGMENTS 200BP TO 25KB**
- **HIGH RESOLUTION – PCR GRADE – HIGH RESOLUTION, LOW BACKGROUND FOR ANALYSIS OF FRAGMENTS, 20-800BP**

CleverGEL is a new environmentally friendly agarose suitable for routine analysis of nucleic acids using standard electrophoretic procedures.

CleverGEL is manufactured by a process which excludes organic solvents harmful to marine life, making it far kinder to the environment than conventional agarose.

A low EEO (electroendosmotic) flow minimises diffusion so that even the smallest of nucleic acid fragments remains sharp and tightly resolved, while a high gel strength aids handling and maintains compatibility with blotting techniques.

CleverGEL is now available in a low melting point form for nucleic acid recovery and enzymatic applications, as well as in a high resolution PCR-grade form to resolve very small nucleic acid fragments 20-800bp in size.



### Technical Specifications

	Low EEO	Low Melting Point	High Resolution
CAS	9012-36-6	39346-81-1	39346-81-1
Gelling Point*	36°C±1.5°C	26-30°C	≤33°C
Melting Point*	88°C±1.5°C	≤65°C	≤70°C
Solubility	Clear, colourless @ 1% [w/v] solution		Clear, colourless @ 2% [w/v] solution
Moisture	≤10%	≤10%	≤10%
Gel Strength	>1200 g/cm <sup>2</sup> (1% [w/v] Gel)	>200 g/cm <sup>2</sup> (1% [w/v] Gel)	≥750 g/cm <sup>2</sup> (1.5% [w/v] Gel)
Nuclease & Protease Free	Yes	Yes	Yes

\*For a 1.5% [w/v] gel

- **CONVENIENT - EACH TABLET CONSTITUTES 0.5G OF AGAROSE**
- **NO WEIGHING NECESSARY**
- **RAPID - SIMPLY ADD THE REQUIRED NUMBER OF TABLETS TO BUFFER**
- **FAST DISSOLVING**
- **CONSISTENT GEL PERCENTAGE**
- **ENVIRONMENTALLY FRIENDLY LOW EEO AGAROSE**

## Instant Agarose Tablets



Environmentally friendly CleverGEL agarose is now available in tablet form for routine analysis of nucleic acids using standard electrophoretic procedures. Supplied as 200 tablets in total, each tablet contains 0.5g of CleverGEL agarose which eliminates the need to weigh out loose agarose powder. Because each tablet is fast-dissolving all that is required is to add the desired number of tablets to the buffer, heat, dissolve and then prepare the gel as

normal. CleverGEL agarose tablets are provided in blister packs of 10, rather than bulky bottles, for extra convenience and storage.

### Technical Specifications

CAS	9012-36-6
EEO	<0.13
Gelling Point*	36°C±1.5°C
Melting Point*	88°C±1.5°C
Solubility	Clear, colourless @ 1% [w/v] solution
Moisture	≤10%
Gel Strength	>1200 g/cm <sup>2</sup> (1% [w/v] Gel)
Nuclease & Protease Free	Yes

\*For a 1.5% [w/v] gel

### Typical Applications

For horizontal agarose gels resolving nucleic acids 0.1-10Kb in size. For industrial and academic laboratories adhering to rigorous standard operating procedures and protocols

### ORDERING INFORMATION

#### General Purpose

AG5	Agarose 5g, Low EEO
AG100	Agarose 100g, Low EEO
AG500	Agarose 500g, Low EEO
AG1000	Agarose 1000g, Low EEO (2x500g bottles)
AG2000	Agarose 2000g, Low EEO (4x500g)
AG5000	Agarose 5000g, Low EEO (10x500g)
AG10KG	Agarose 10Kg, Low EEO (20x500g)

#### Agarose Tablets

AGTAB	Agarose 100g, Low EEO (200x0.5g tablets, supplied as 20 blister packs of 10x0.5g tablets)
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#### Low Melting Point

LMA5	Agarose 5g, LMP
LMA50	Agarose 50g, LMP
LMA100	Agarose 100g, LMP

#### High Resolution PCR-grade

HRA100	Agarose 100g, HR
HRA500	Agarose 500g, HR