



Inspired by knowledge

**AGAROSSES FOR
MOLECULAR BIOLOGY**

Agaroses for Molecular Biology

Agarose gel electrophoresis remains the most widely used technique for separating nucleic acid fragments after restriction enzymes digestion or PCR.

It's a nontoxic simple technique that offers a broad separation range. The size of the gel pores can be controlled by adjusting the agarose concentration to

prepare gels appropriate for the separation of a wide range of different-size nucleic acid molecules.

The migration of nucleic acids in agarose gels is also affected by the choice of running buffer and the applied voltage.

STANDARD APPLICATIONS

Standard agarose is recommended for routine analysis of nucleic acid fragments, PCR products, restriction digests or plasmid preparation.

Agarose D1 Low EEO
CAT. 8010

Agarose E
CAT. 8100

Separation range	≥ 1,000 bp
Optimum gel concentration	0.75 %, 1 % and 1.25 %
Gelling temperature (1.5 %)	36 ± 1.5 °C
Melting temperature (1.5 %)	88 ± 1.5 °C

Other standard agaroses.

Agarose D1 Low EEO - GQT
CAT. 8017

Standard agarose with GQT (Genetic Quality Tested) certificate. Useful when recovering DNA fragments before enzymatic processes or cloning.

Agarose D1 Medium EEO
CAT. 8019

Useful for nucleic acid electrophoresis; serum protein electrophoresis and immunoelectrophoresis.

Agarose D1 High EEO
CAT. 8024

Suitable for electrophoresis of serum proteins, immunoelectrophoresis and counterimmunoelectrophoresis.

Agarose D2
CAT. 8032

High gelling temperature agarose, 42 ± 1.5 °C, giving higher thermal stability to gels than D1-HE.

Applications: Useful for preparation of agarose beads; protein electrophoresis and crossed immunoelectrophoresis.

AGAROSE FOR DNA RECOVERY

Low melting agarose is suggested for the recovery of undamaged acids at a temperature lower than their denaturing temperature. Optimal for separation and purification sequence prior to cloning and other in-gel applications such as digestion, ligation, PCR, transformation, and sequencing.

Agarose LM Sieve
CAT. 8092

GQT (Genetic Quality Tested) grade certificate

Separation range	200 - 800 bp
Optimum gel concentration	≥ 2 %
Gelling temperature (4 %)	≤ 35 °C
Melting temperature (4 %)	≤ 65 °C

Other low melting agaroses.

Agarose LM and LM GQT
CAT. 8050 + CAT. 8091

Highest resolving capacity for large DNA fragments (separation: ≥ 1,000 bp). Two different alternatives: LM Standard and LM GQT (Genetic Quality Tested).

Agarose NovaGel GQT
CAT. 8093

Low melting agarose grade certified. Its high resolution capacity can resolve small DNA fragments (separation: 50 – 1,000 bp).

SPECIAL AGAROSSES

Agarose D5
CAT. 8045

High gel strength agarose, not only especially recommended for high molecular weight nucleic acids > 1000 bp, including chromosomes, but also for large sized particles like viruses and ribosomes. Strongly recommended for PFGE owing to its high gel strength and its mobility, which is higher than that of standard agarose.

Agarose F.P. DNA
CAT. 8090

DNA Finger-printing (FP) agarose is a powerful tool for laboratories performing forensic testing, paternity determination.

AGAROSE FOR HIGH DNA RESOLUTION

This group of agaroses are ideal for analysis and recovery of small DNA fragments and primers (lower than 500bp), Achieving reliable sequencing data while preserving the integrity of the original DNA sample.

Agarose MS - 4
CAT. 8075

GQT (Genetic Quality Tested) grade certificate

Separation range	150 - 700 bp
Optimum gel concentration	3 %
Gelling temperature (4 %)	≤ 35 °C
Melting temperature (4 %)	≤ 75 °C

Other high DNA resolution agaroses.

Agarose MS - 6
CAT. 8001

Recommended for analytical electrophoresis of DNA lower than 500 bp.

Agarose MS - 8
CAT. 8065

Recommended for analytical gels of DNA lower than 1,200 bp and especially for PCR products.

Agarose MS - 12
CAT. 8067

Recommended for DNA analytical gels at 2 % concentrations, it can separate 50 - 1,500 bp fragments.

AGAROSE REAGENTS

CondaSafe is a non toxic alternative to traditional ethidium bromide to staining agarose gels with high sensitivity even for small fragments of nucleic acids.

CondaSafe Stain
CAT. 4687

- Non-mutagenic and non-carcinogenic reagent
- Use for detecting dsDNA and RNA
- No hazardous waste

Standard agaroses.

CAT.	PRODUCT	PACK SIZE	FEATURES AND APPLICATIONS
8032	Agarose D2	50, 100, 250 and 500 g	High Gelling Temperature
8024	Agarose D1 High EEO	50, 100, 250 and 500 g	High Electroendosmosis
8017	Agarose D1 Low EEO - GQT	50, 100, 250 and 500 g	Genetic Quality Tested
8010	Agarose D1 Low EEO	50, 100, 250 and 500 g	Low Electroendosmosis
8019	Agarose D1 Medium EEO	50, 100, 250 and 500 g	Medium Electroendosmosis
8100	Agarose E	50, 100, 250 and 500 g	Routine Agarose

Agarose for DNA recovery.

CAT.	PRODUCT	PACK SIZE	FEATURES AND APPLICATIONS
8050	Agarose LM	50, 100, 250 and 500 g	General, Low Meelting Point, in-gel applications
8091	Agarose LM GQT	50, 100, 250 and 500 g	Genetic Quality Tested
8092	Agarose LM Sieve	50, 100, 250 and 500 g	High Resolution, Low Meelting Point with higher transparency
8093	Agarose NovaGel GQT	50, 100, 250 and 500 g	High Resolution

Agarose for high DNA resolution.

CAT.	PRODUCT	PACK SIZE	FEATURES AND APPLICATIONS
8075	Agarose MS - 4	50, 100, 250 and 500 g	Molecular Screening - DNA Resolution < 500 b.p.
8001	Agarose MS - 6 Metagel	50, 100, 250 and 500 g	Molecular Screening - DNA Resolution < 800 b.p.
8067	Agarose MS - 12	50, 100, 250 and 500 g	Molecular Screening - DNA Resolution < 1500 b.p.
8065	Agarose MS - 8	50, 100, 250 and 500 g	High Resolution Molecular Screening - DNA Resolution < 1000 b.p.

Special agaroses.

CAT.	PRODUCT	PACK SIZE	FEATURES AND APPLICATIONS
8045	Agarose D5	50, 100, 250 and 500 g	High Gel Strength for pulsed field technique
8090	Agarose F.P. DNA	50, 100, 250 and 500 g	Finger Printing DNA

Agarose reagents.

CAT.	PRODUCT	PACK SIZE
4687	CondaSafe Stain	1 ml
CK130	PronaSafe Stain	1 ml