



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

Guide de choix des agaroses



Type	EEO	Force du gel (g/cm²)	Caractéristiques				Applications	Conditionnement									
			Temp. de gélification	Temp. de fusion	Taille fragments pour une séparation analytique (pb)	50 g		100 g		250 g		500 g		1000 g			
						Réf.		€ HT	Réf.	€ HT	Réf.	€ HT	Réf.	€ HT	Réf.	€ HT	
D1 Low EEO	0,05 - 0,13	≥ 1200 (1%)	36 ± 1,5 °C (1,5%)	88 ± 1,5 °C (1,5%)	≥ 1000	Agarose de qualité supérieur, faible électroendosmose pour l'électrophorèse des acides nucléiques	-	-	777001	NC -	777002	NC -	777003	NC -	777004	NC -	
D1 Medium EEO	0,16 - 0,19	≥ 1000 (1%)				Agarose à électroendosmose moyenne pour l'électrophorèse à contre courant, des anticorps, du sérum et de l'immuno-électrophorèse	778603	NC -	777008	NC -	777009	NC -	777010	NC -	777011	NC -	
D1 High EEO	0,23 - 0,26	≥ 750 (1%)				Agarose à électroendosmose élevé pour la séparation des protéines et l'électrophorèse à contre-courant	778606	NC -	777012	NC -	777013	NC -	777014	NC -	777015	NC -	
D1 LE GQT	0,05 - 0,13	≥ 1200 (1%)				Agarose de qualité génie génétique testé pour les applications in-gel	778604	NC -	777005	NC -	777006	NC -	777007	NC -	778508	NC -	
D2	≤ 0,14	≥ 900 (1%)	42 ± 1,5 °C (1,5%)	87 ± 1,5 °C (1,5%)	≥ 1000	Agarose de grande stabilité thermique à température de fusion élevée pour la dérivatisation, la réticulation (cross-linking) ou le couplage d'enzymes, d'antigènes ou d'autres substances à la structure du gel	778607	NC -	777016	NC -	777017	NC -	777018	NC -	778509	NC -	
D5	≤ 0,12	≥ 1800 (1%)	36 ± 1,5 °C (1,5%)	88 ± 1,5 °C (1,5%)	≥ 1000	Agarose à force de gel élevé pour blotting, électrophorèse en champs pulsé	778602	NC -	777019	NC -	777020	NC -	777021	NC -	778510	NC -	
FP DNA	≤ 0,13	≥ 1400 (1%)	36 ± 1,5 °C (1,5%)	88 ± 1,5 °C (1,5%)	≥ 1000	Agarose pour les applications nécessitant la meilleure reproductibilité lot à lot en terme de qualité et de performance, idéal pour la médecine légale et le contrôle qualité médecine légale, contrôle qualité	778601	NC -	777022	NC -	777023	NC -	777024	NC -	778515	NC -	
E	NC	≥ 1000 (1%)	36 ± 1,5 °C (1,5%)	88 ± 1,5 °C (1,5%)	250-23 kb	Agarose standard pour électrophorèse de routine	778565	NC -	778566	NC -	778519	NC -	778567	NC -	777531	NC -	
LM	≤ 0,12	≥ 500 (1,5%)	≤ 24-28 °C (1,5%)	≤ 65 °C (1,5%)	≥ 1000	Agarose pour électrophorèse haute résolution, température de fusion et de gélification très basse, fragment jusqu'à 1000 pb	777025	NC -	777026	NC -	777027	NC -	777028	NC -	778511	NC -	
LM GQT	≤ 0,12	≥ 500 (1,5%)	≤ 24-28 °C (1,5%)	≤ 65 °C (1,5%)	≥ 1000	Agarose qualifié pour les applications in-gel (qualité génétique), température de fusion et de gélification très basse, fragments jusqu'à 1000 pb	777029	NC -	777030	NC -	777031	NC -	778600	NC -	778516	NC -	
LM SIEVE	≤ 0,10	≥ 1000 (4%)	≤ 35 °C (4%)	≤ 65 °C (4%)	≥ 1000	Agarose pour électrophorèse haute résolution, température de fusion et de gélification très basse, fragments jusqu'à 1000 pb, testé pour les applications in-gel	777032	NC -	777033	NC -	777034	NC -	777035	NC -	778517	NC -	
NOVAGEL GQT	≤ 0,13	≥ 800 (4%)	≤ 35 °C (4%)	≤ 65 °C (4%)	50-1000	Agarose qualifié pour les applications in-gel (qualité génie génétique), température de fusion et de gélification très basse, fragments de 50 à 1000 pb	777036	NC -	777037	NC -	777038	NC -	777039	NC -	778518	NC -	
MS4	≤ 0,12	≥ 500 (3%)	≤ 31 °C (3%)	≤ 76 °C (3%)	150-500	Agarose pour électrophorèse haute résolution, pour la séparation des fragments d'acides nucléiques de très petite taille (amorces) et jusqu'à 500 pb	777046	NC -	777047	NC -	777048	NC -	777049	NC -	778514	NC -	
MS6	≤ 0,12	≥ 800 (3%)	≤ 35 °C (3%)	≤ 75 °C (3%)	≤ 1000	Agarose pour électrophorèse haute résolution, petits fragments d'ADN et produits PCR	777050	NC -	777051	NC -	777052	NC -	777053	NC -	778507	NC -	
MS8	≤ 0,12	≥ 600 (1,5%)	≤ 35 °C (3%)	≤ 80 °C (3%)	≤ 1000	Agarose pour électrophorèse haute résolution, fragments jusqu'à 1000 pb	777054	NC -	777055	NC -	777056	NC -	777057	NC -	778512	NC -	
MS12	≤ 0,12	≥ 2000 (1,5%)	≤ 40,5 °C (4%)	≤ 93 °C (4%)	50-1500	Agarose pour électrophorèse haute résolution, fragments jusqu'à 1500 pb	777058	NC -	777059	NC -	777060	NC -	777061	NC -	778513	NC -	