



Agaroses

for Molecular Biology

5th Edition

Agaroses for Molecular Biology

Agarose is a fraction extracted from agar-producing seaweeds and is mainly responsible for the agar's gelling power.

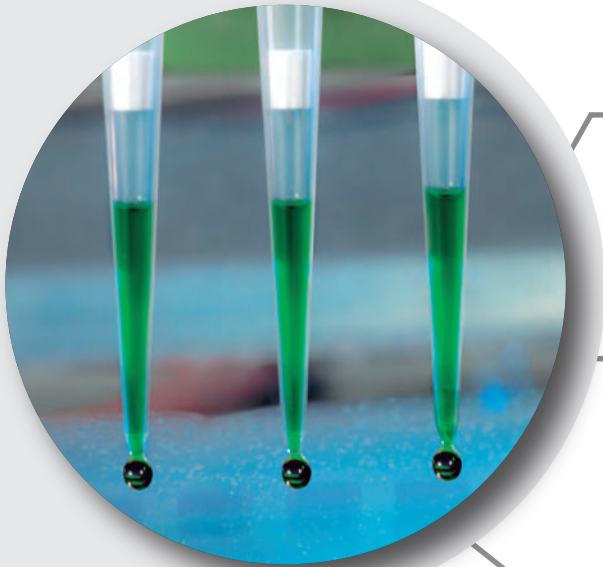
Agarose gelling temperature range is 32 - 45°C, and its melting temperature range is normally 80 - 95°C, although these can be modified when preparing products for specific uses.

Agarose is a **neutral, toxic-free** substance that can be handled freely. In addition to its uses in gels, agarose can be used to form support

structures such as beads, to which proteins, such as enzymes and antibodies, as well as other products, including dyes and antigens, can be fixed for separations.

Laboratorios CONDA only offers its customers high quality agarose products which allow for the best results with a wide range on offer for all kinds of applications. The high quality is guaranteed by **strict controls** applied throughout the production process, from the seaweed through to the final product.

Did you know?



CONDA has more than **50 years'** experience in the market

CONDA's agarose is internationally recognized for its **cost-effectiveness, quality and performance**

We also **offer a wide range** of dehydrated culture media for Molecular Biology and buffers

Agarose is an **indispensable tool** for any laboratory

Characteristics

- Easy preparation (microwave or boil)
- Thermoreversible
- Resistant gels even at low concentrations
- Excellent transparency
- Thermal stability (high hysteresis)
- Low absorption of staining agents - low background
- May be dried for permanent records

Specifications

Applications

	Moisture	Ash	EEO (Electroendosmosis)	Sulfate	Clarity 1.5% (NTU)	Gel Strength 1% (g/cm ²)	Gel Strength 1.5% (g/cm ²)	Gelling Temperature 1.5% (°C)	Melting Temperature 1.5% (°C)
E (low EEO)	≤ 10%	≤ 0.45%	0.05 - 0.13	≤ 0.1%	≤ 4	≥ 1000	≥ 2200	36 ± 1.5	88 ± 1.5
D1 LE (low EEO)	≤ 10%	≤ 0.4%	0.05 - 0.13	≤ 0.1%	≤ 3	≥ 1200	≥ 2500	36 ± 1.5	88 ± 1.5
D1 ME (medium EEO)	≤ 10%	≤ 0.5%	0.16 - 0.19	≤ 0.14%	≤ 4	≥ 1000	≥ 2200	36 ± 1.5	88 ± 1.5
D1 HE (high EEO)	≤ 10%	≤ 1%	0.23 - 0.26	≤ 0.2%	≤ 4	≥ 750	≥ 1200	36 ± 1.5	88 ± 1.5
D1 LE (low EEO) GQT	≤ 10%	≤ 0.4%	0.05 - 0.13	≤ 0.1%	≤ 3	≥ 1200	≥ 2500	36 ± 1.5	88 ± 1.5
D2	≤ 10%	≤ 0.4%	≤ 0.14	≤ 0.2%	≤ 4	≥ 900	≥ 1200	42 ± 1.5	87 ± 1.5
D5	≤ 10%	≤ 0.25%	≤ 0.12	≤ 0.12%	≤ 4	≥ 1800	≥ 3200	36 ± 1.5	88 ± 1.5
FP DNA	≤ 10%	≤ 0.4%	≤ 0.13	≤ 0.14%	-	≥ 1400	-	36 ± 1.5	88 ± 1.5
LM Sieve	≤ 10%	≤ 0.3%	≤ 0.10	≤ 0.12%	-	[4%] ≥ 1000	-	[4%] ≤ 35	[4%] ≤ 65
Novagel GQT	≤ 10%	≤ 0.45%	≤ 0.13	≤ 0.12%	[4%] ≤ 6	[4%] ≥ 800	-	[4%] ≤ 35	[4%] ≤ 65
LM	≤ 10%	≤ 0.4%	≤ 0.12	≤ 0.12%	≤ 4	-	≥ 500	24-28	≤ 65.5
LM GQT	≤ 10%	≤ 0.4%	≤ 0.12	≤ 0.12%	≤ 4	-	≥ 500	24-28	≤ 65.5
MS-4	≤ 10%	≤ 0.3%	≤ 0.12	≤ 0.11 %	[3%] ≤ 6	[3%] ≥ 500 [5%] ≥ 1000	-	[3%] ≤ 31	[3%] ≤ 76
MS-6	≤ 10%	≤ 0.3%	≤ 0.12	≤ 0.1 %	[3%] ≤ 4	[3%] ≥ 800	-	[3%] ≤ 35	[3%] ≤ 75
MS-8	≤ 10%	≤ 0.3%	≤ 0.12	≤ 0.11 %	[3%] ≤ 5	[3%] ≥ 600 [5%] ≥ 1500	-	[3%] ≤ 35.5	[3%] ≤ 80
MS-12	≤ 10%	≤ 0.35%	≤ 0.12	≤ 0.11 %	≤ 5	[1.5%] ≥ 2000 [4%] ≥ 4200	-	[4%] ≤ 40.5	[4%] ≤ 93

STANDARD

LOW MELTING POINT

HIGH (DNA) RESOLUTION

Analytical separation ≥1000 bp	Analytical separation ≤1000 bp	Preparative electrophoresis	PFGE	DNA typing	Blotting	Fine resolution	In-gel applications	Protein electrophoresis
●					●			
●				●	●			
								●
								●
●		●		●	●			
●			●		●			●
●				●	●			
	●	●				●	●	
●								
●		●					●	
	●					●		●
	●					●		●
	●				●			

Key Products



STANDARD AGAROSSES:
D1 Low EEO (0.05-0.13)



LOW MELTING POINT AGAROSSES:
LM Sieve agarose



ROUTINE AGAROSE:
E



HIGH (DNA) RESOLUTION AGAROSSES:
MS-4

Standard Concentrations for DNA resolution

Agarose	Buffer 1X TAE Range [bp]	Gel concentration [%]	Buffer 1X TBE Range [bp]
E	20.000 - 1.000 12.000 - 500 8.000 - 300 6.000 - 200 3.500 - 100 2.000 - 50	0,6 0,8 1,0 1,2 1,5 2,0	15.000 - 1.000 10.000 - 500 7.000 - 250 5.000 - 200 3.000 - 100 2.000 - 50
D1 LE / D1 LE GQT	20.000 - 1.000 12.000 - 500 8.000 - 300 6.000 - 200 3.500 - 100 2.000 - 50	0,6 0,8 1,0 1,2 1,5 2,0	15.000 - 1.000 10.000 - 500 7.000 - 250 5.000 - 200 3.000 - 100 2.000 - 50
D5	40.000 - 3.000 22.000 - 2.000 15.000 - 1.000 10.000 - 400 5.000 - 200	0,3 0,5 0,8 1,0 1,8	20.000 - 2.000 12.000 - 1.500 9.000 - 1.000 6.000 - 500 3.000 - 200
LM /LM GQT	20.000 - 500 16.000 - 300 10.000 - 250 5.000 - 200 2.500 - 100 1.500 - 50	0,75 1,00 1,25 1,50 1,75 2,00	12.000 - 500 8.000 - 300 4.000 - 200 3.000 - 150 2.000 - 100 1.000 - 50
LM SIEVE / NOVAGEL GQT	1.500 - 500 700 - 150 300 - 70 50 - 10	2,0 3,0 4,0 5,0	1.000 - 400 500 - 100 150 - 10 ≤ 30
MS4	500 - 80 300 - 30 200 - 10	3,0 4,0 5,0	300 - 50 100 - 10 ≤ 100
MS6 / MS8	1.200 - 400 800 - 150 500 - 20 300 - 10	1,8 3,0 4,0 5,0	1.200 - 100 700 - 40 200 - 20 ≤ 100
MS12	1.500 - 500 1.200 - 300 600 - 150 250 - 30	2,0 3,0 4,0 5,0	1.200 - 400 800 - 100 500 - 50 250 - 20

Product List

Standard Electrophoresis

CAT N°	PRODUCT
Low Electroendosmosis	
8010	● AGAROSE D1 LOW EEO
Genetic Quality Tested	
8017	AGAROSE D1 LOW EEO - GQT (Genetic Quality Tested)
Medium Electroendosmosis	
8019	AGAROSE D1 MEDIUM EEO
High Electroendosmosis	
8024	AGAROSE D1 HIGH EEO
High Gelling Temperature	
8032	AGAROSE D2
High Gel Strength (for pulsed field technique)	
8045	AGAROSE D5
Finger Printing DNA	
8090	AGAROSE F.P. DNA

Routine Agarose

CAT N°	PRODUCT
General	
8100	● AGAROSE E

Low Melting Point

CAT N°	PRODUCT
General	
8050	AGAROSE LM
Genetic Quality Tested	
8091	AGAROSE LM GQT
Low Melting / High Resolution	
8092	● AGAROSE LM SIEVE
8093	AGAROSE NOVAGEL GQT

High Resolution

CAT N°	PRODUCT
M.S.- 4 Molecular Screening - DNA Resolution < 500 b.p.	
8075	● AGAROSE M.S. - 4
M.S.- 6 Molecular Screening - DNA Resolution < 800 b.p.	
8001	AGAROSE M.S.- 6 (METAGEL)
M.S.- 8 Molecular Screening - DNA Resolution < 1000 b.p.	
8065	AGAROSE M.S.- 8
M.S.- 12 Molecular Screening - DNA Resolution < 1500 b.p.	
8067	AGAROSE M.S.- 12

High Resolution

CAT N°	PRODUCT
Agarose Staining	
CK 130	PRONA SAFE



C/ La Forja, 9
28850 - Torrejón de Ardoz,
Madrid - SPAIN

Phone +34 91 761 02 00
Fax +34 91 656 82 28



For more information