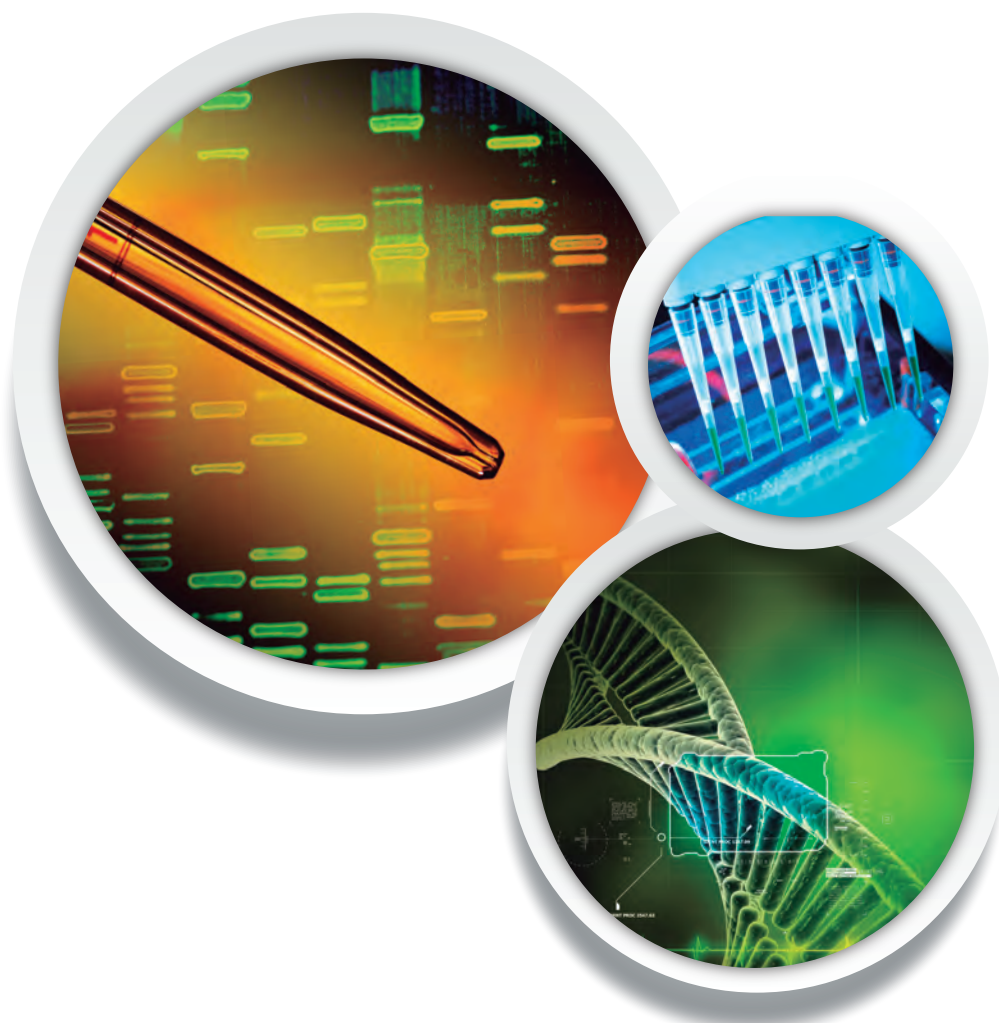




Agaroses

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.

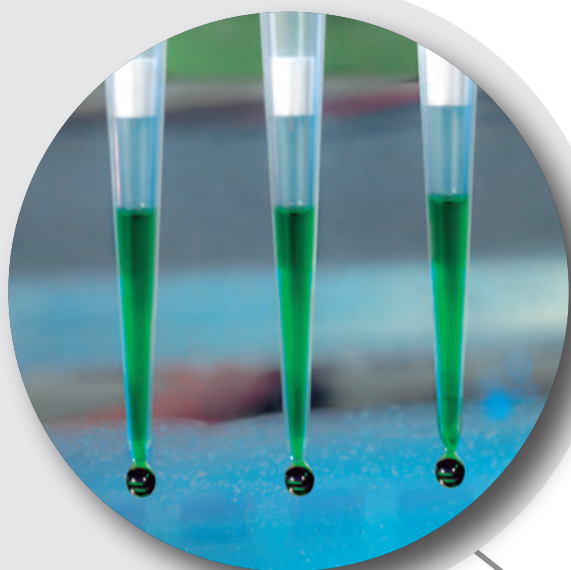
Agarose gelling temperature range is 32 - 45°C, and its melting temperature range is normally 80 - 95°C, although these can be modified when preparing products for specific uses.

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/cm2)	Gel Strength 1,5% (g/cm2)	Gelling Temperture 1,5% (°C)	Melting Temperature 1,5% (°C)
STANDARD	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
LOW MELTING POINT	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 LM GQT	≤ 10%	≤ 0.4%	≤ 0.12	≤ 0.12%	≤ 4	-	≥ 500	24-28	≤ 65.5
HIGH (DNA) RESOLUTION	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	≤ 01 %	[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

[illegible]

Key Products



STANDARD AGAROSE:
D1 Low EEO (0.05–0.13)



LOW MELTING POINT AGAROSE:
LM Sieve agarose



ROUTINE AGAROSE:
E



HIGH (DNA) RESOLUTION AGAROSE:
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	0,6	15.000 - 1.000
	12.000 - 500	0,8	10.000 - 500
	8.000 - 300	1,0	7.000 - 250
	6.000 - 200	1,2	5.000 - 200
	3.500 - 100	1,5	3.000 - 100
	2.000 - 50	2,0	2.000 - 50
D1 LE / D1 LE GQT	20.000 - 1.000	0,6	15.000 - 1.000
	12.000 - 500	0,8	10.000 - 500
	8.000 - 300	1,0	7.000 - 250
	6.000 - 200	1,2	5.000 - 200
	3.500 - 100	1,5	3.000 - 100
	2.000 - 50	2,0	2.000 - 50
D5	40.000 - 3.000	0,3	20.000 - 2.000
	22.000 - 2.000	0,5	12.000 - 1.500
	15.000 - 1.000	0,8	9.000 - 1.000
	10.000 - 400	1,0	6.000 - 500
	5.000 - 200	1,8	3.000 - 200
LM /LM GQT	20.000 - 500	0,75	12.000 - 500
	16.000 - 300	1,00	8.000 - 300
	10.000 - 250	1,25	4.000 - 200
	5.000 - 200	1,50	3.000 - 150
	2.500 - 100	1,75	2.000 - 100
	1.500 - 50	2,00	1.000 - 50
LM SIEVE / NOVAGEL GQT	1.500 - 500	2,0	1.000 - 400
	700 - 150	3,0	500 - 100
	300 - 70	4,0	150 - 10
	50 - 10	5,0	≤ 30
MS4	500 - 80	3,0	300 - 50
	300 - 30	4,0	100 - 10
	200 - 10	5,0	≤ 100
MS6 / MS8	1.200 - 400	1,8	1.200 - 100
	800 - 150	3,0	700 - 40
	500 - 20	4,0	200 - 20
	300 - 10	5,0	≤ 100
MS12	1.500 - 500	2,0	1.200 - 400
	1.200 - 300	3,0	800 - 100
	600 - 150	4,0	500 - 50
	250 - 30	5,0	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



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