

	Caractéristiques							Applications									
	EEO	Force du gel (g/cm ²)	Temp. de gélification	Température de fusion	Taille fragments	Séparation analytique de fragments ≥ 1000pb	Séparation analytique de fragments ≤ 1000pb	Electrophorèse de préparation	PFGE	Typage d'ADN	Blotting	Résolution fine	Applications sur gel	Electrophorèse de protéines			
D1 LE	0,05-0,13	≥1200 (1%)	36 ± 1,5°C (1,5%)	88 ± 1,5°C (1,5%)	≥ 1000 pb	X				X	X			X			
D1 ME	0,16-0,19	≥1000 (1%)															X
D1 HE	0,23-0,26	≥750 (1%)															
D1 LE GQT	0,05-0,13	≥1200 (1%)						X		X		X	X				
D2	≤ 0,14	≥900 (1%)	42 ± 1,5°C (1,5%)	87 ± 1,5°C (1,5%)	≥ 1000 pb	X									X		
D5	≤ 0,12	≥1800 (1%)	36 ± 1,5°C (1,5%)	88 ± 1,5°C (1,5%)	≥ 1000 pb	X			X		X						
FP DNA	≤ 0,13	≥1400 (1%)	36 ± 1,5°C (1,5%)	88 ± 1,5°C (1,5%)	≥ 1000 pb	X				X	X						
E	NC	≥1000 (1%)	36 ± 1,5°C (1,5%)	88 ± 1,5°C (1,5%)	250 pb-23kb	X					X						
LM	≤ 0,12	≥500 (1,5%)	≤ 24-28°C (1,5%)	≤ 65°C (1,5%)	200-800 pb	X											
LM GQT	≤ 0,12	≥500 (1,5%)	≤ 24-28°C (1,5%)	≤ 65°C (1,5%)	200-800 pb	X		X					X				
LM SIEVE	≤ 0,10	≥1000 (4%)	≤ 35°C (4%)	≤ 65°C (4%)	200-800 pb		X	X				X	X				
NOVAGEL GQT	≤ 0,13	≥800 (4%)	≤ 35°C (4%)	≤ 65°C (4%)	50-1000 pb		X	X				X	X				
MS4	≤ 0,12	≥500 (3%)	≤ 31°C (3%)	≤ 76°C (3%)	150-500 pb		X								X		
MS6	≤ 0,12	≥800 (3%)	≤ 35°C (3%)	≤ 75°C (3%)	≤ 1000 pb		X								X		
MS8	≤ 0,12	≥600 (1,5%)	≤ 35°C (3%)	≤ 80°C (3%)	≤ 1000 pb		X								X		
MS12	≤ 0,12	≥2000 (1,5%)	≤ 40,5°C (4%)	≤ 93°C (4%)	50-1500 pb		X				X						

Agaroses types, applications & concentrations

Agarose is a fraction extracted from agar-producing seaweeds and is mainly responsible for the agar's gelling power. It exhibits a high hysteresis [difference between melting and gelling temperatures] making it ideal for separations such as electrophoresis and chromatography within the fields of Molecular Biology and Biochemistry. Specifically, the gelling temperature range is 32 - 45°C, and the melting temperature range is normally 80 - 95°C, although these can be modified when preparing products for

specific uses. Agarose is a neutral and toxic-free material so it 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. Agarose is an indispensable tool for Molecular Biology, Biochemistry, Cell Structure and Microbiology.

APPLICATIONS

	Analytical separation ≥1000 bp	Analytical separation ≤1000 bp	Preparative electrophoresis	PFGE	DNA typing	Blotting	Fine resolution	In-gel applications	Protein electrophoresis
D1 LE	●				●	●			
D1 ME/HE									●
D1 LE GGT	●		●		●	●			
D2	●								●
D5	●			●		●			
FP DNA	●				●	●			
E	●					●			
LM	●								
LM GGT	●		●					●	
LM Sieve		●	●				●	●	
Novagel GGT		●	●				●	●	
MS4		●							●
MS6		●							●
MS8		●							●
MS12		●				●			

COMPARATIVE

	CONDA	LONZA
D1 LE		Seakem LE
D1 ME/HE		SeaKem ME/HE
D1 LE GGT		Seakem LE GGT
D2		Seakem HGT
D5		Seakem GOLD
FP DNA		-
E		-
LM		SeaPlaque
LM GGT		SeaPlaque GGT
LM Sieve		NuSieve GTG
Novagel GGT		NuSieve GTG
MS4		-
MS6		Metaphor
MS8		Metaphor
MS12		NuSieve 3:1

STANDARD CONCENTRATIONS for DNA resolution

	Buffer 1X TAE Range [bp]	Gel concentration [%]	Buffer 1X TBE Range [bp]
D1 LE / D1 LE GGT	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
D5	20.000 - 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
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

	Buffer 1X TAE Range [bp]	Gel concentration [%]	Buffer 1X TBE Range [bp]
LM / LM GGT	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 GGT	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