

Suggested Agarose Concentrations for DNA Sizes

Size range (base pairs)	Final Agarose Concentration % (w/v)	
	1X TAE buffer	1X TBE buffer
SeaKem® LE and SeaKem® GTG™ Agarose		
1,000–23,000	0.60	0.50
800–10,000	0.80	0.70
400–8,000	1.00	0.85
300–7,000	1.20	1.00
200–4,000	1.50	1.25
100–3,000	2.00	1.75
NuSieve™ 3:1 Agarose		
500–1,000	3.0	2.0
100–500	4.0	3.0
10–100	6.0	5.0
MetaPhor™ Agarose		
150–800	2.0	1.8
100–600	3.0	2.0
50–250	4.0	3.0
20–130	5.0	4.0
<80	–	5.0
SeaPlaque™ and SeaPlaque™ GTG™ Agarose		
500–25,000	0.75	0.70
300–20,000	1.00	0.85
200–12,000	1.25	1.00
150–6,000	1.50	1.25
100–3,000	1.75	1.50
50–2,000	2.00	1.75
NuSieve™ GTG™ Agarose		
500–1,000	2.5	2.0
150–700	3.0	2.5
100–450	3.5	3.0
70–300	4.0	3.5
10–100	4.5	4.0
8–50	5.0	4.5
SeaKem® Gold Agarose[†]		
5,000–50,000	0.3	–
1,000–20,000	0.5	–
800–10,000	0.8	–
400–8,000	1.0	–

[†] TBE buffer is not recommended for separation of DNA >12,000 bp