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Document # 18912-0820-4
Rockland, ME 04841 USA

SeaKem® Gold Agarose

An agarose specifically developed for rapid DNA separations and recovery of active enzymatically responsive DNA

Certificate of Performance

Chemical and Physical Specifications:

1. Gelling temp., 1.5%: √ 36°C±1.5°C
2. Moisture: √ ≤10%
3. Sulfate: √ ≤0.10%
4. Gel Strength, 1%: √ ≥1800 g/cm²
5. EEO (-m_r): √ ≤0.05

Molecular Biology Procedures:

1. *Ava* I-linearized pBR322 DNA is electrophoresed through a 1.0% gel of the test agarose, and then is recovered by electroelution. The recovered DNA is restricted or ligated with the enzymes below. The percent activity in the last column is relative to a DNA control run in parallel through all steps except agarose gel electrophoresis.
2. S. *cerevisiae* chromosomes are separated in a split PFG gel consisting of the test agarose and a reference SeaKem® LE Agarose. The migration of the smallest chromosome in the SeaKem® Gold Agarose must be ≥1.30 compared to the smallest chromosome in the SeaKem® LE Agarose control.

Molecular Biology Test Results:

		Apparent Enzyme Activity, U/µg DNA		
Enzyme	Units/µg	Recovered DNA	Electroeluted Control	Relative Activity
*Eco*R I	1-3	≥0.40	≥0.40	≥50%
*Hin*d III	1-3	≥0.30	≥0.30	≥50%
T4 DNA Ligase	0.125	≥0.063	≥0.063	≥50%
	0.500	≥0.250	≥0.250	≥50%
Relative Mobility ≥1.30				
DNase Activity: √	None detected.		RNase Activity: √	None detected.

For more information contact Technical Service at (800) 521-0390 or visit our website at www.Lonza.com

Ordering Information

Catalog No	Description	Size
50152	SeaKem® Gold Agarose	25 g
50150	SeaKem® Gold Agarose	125 g

For Laboratory Use.

Derived from Agar.