



enzyQUEST

Agarose for Molecular Biology, 500gr Cat No: AG001-500

Agarose for Molecular Biology is suitable for the rapid routine separation of DNA and RNA fragments, as well as for PCR products, plasmid preparation and for detection, cloning and transfer techniques. May Analyze DNA fragments in the dynamic range of 0.1 to **>25** kb. Under denaturing conditions may also separate RNA in the aforementioned Range (native RNA gels are not able to differentiate RNA samples by size due to very common structural elements found in single stranded RNA molecules that may affect migration in the agarose polymer). By utilizing pulse field electrophoresis may be able to analyze DNA and RNA fragments >30kbp.

Form: White powder

Quantity: 500 gr

Product Details

Storage: Store at Room Temperature

Characteristics

- ❖ Easy dissolution and fast gelling
- ❖ Excellent transparency and low background staining, which provides clear visibility of the bands
- ❖ Sharp, well-defined bands
- ❖ Very low DNA fixation
- ❖ Electroendosmosis value ≤ 0.13

Specifications and characteristics	Agarose for Molecular Biology
Moisture	$\leq 10\%$
Ash Content	$\leq 0.4\%$
Electroendoosmosis	0.05-0.13
Sulfate	$\leq 0.1\%$
Clarity 1.5 % (NTU)	≤ 3
Gel Strength 1% (g/cm ²)	≥ 1200
Gel Strength 1.5 % (g/cm ²)	≥ 2500
Gelling Temperature 1.5 % (°C)	36 ± 1.5
Melting Temperature 1.5 % (°C)	88 ± 1.5
DNase / RNase Activity	None Detected
Gel background	Very Low

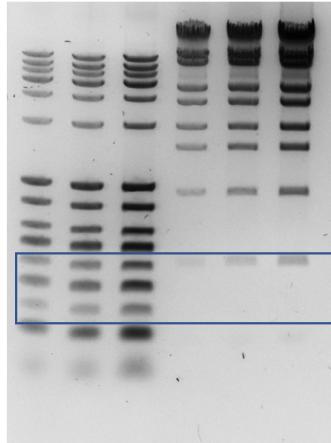


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1% Agarose of Competitor A

Long Range DNA ladder λ DNA/Styl

0.5 γ 1 γ 2 γ 0.5 γ 1 γ 2 γ



1% Agarose for Molecular Biology

Long Range DNA ladder λ DNA/Styl

0.5 γ 1 γ 2 γ 0.5 γ 1 γ 2 γ

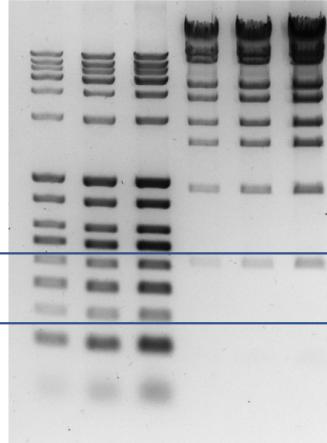


Figure 1: Comparison of 1% Agarose for Molecular Biology with 1% Agarose of a competitor; 200 V; 50 min; 0.5 X TBE buffer. DNA bands in Enzyquest product exhibit sharper edges than Competitor A. In addition, no unspecific bands appeared in Agarose for Molecular Biology in contrast to that of Competitor A.