



Agaroses & Agarose Tablets

- DNase/RNase-free
- Excellent value and high purity
- Ideal for separation of a wide range of DNA/RNA fragments
- High resolution of PCR products (HiRes grade)
- Available as powder or as pre-weighed 0.5g tablets

Molecular Biology Grade Agarose

Bioline Agarose, Molecular Grade is an extremely pure, high molecular biology grade agarose powder that has been extensively tested for DNase and RNase contamination. Bioline Agarose batch-to-batch reproducibility provides consistently high resolution of DNA and RNA fragments separated by gel electrophoresis. The high gel strength (>1200g/cm²) means that gels as low as 0.5% (for wide range resolution) are feasible.

This excellent multipurpose agarose exhibits low electroendosmosis (EEO) and is ideal for high resolution of a wide range of DNA and RNA fragments separated by gel electrophoresis, specifically for fragments of about 500-1000bp up to 30,000-40,000bp depending on the method and the gel concentration (Figure 1).

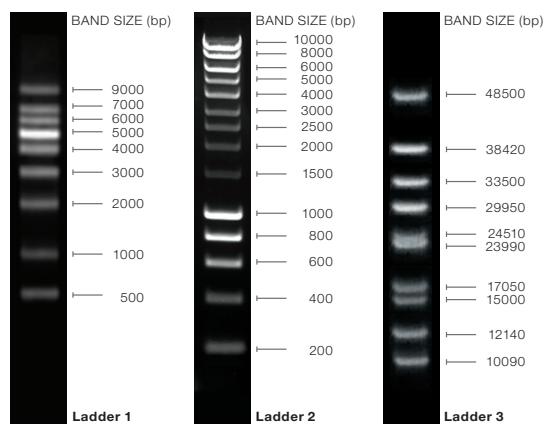


Figure 1. Bioline Agarose provides high resolution of DNA and RNA fragments separated by gel electrophoresis.

Ladder 1. 4µl Bioline RiboLadder Long + 4µl RNA Loading dye, run on a 1.2% Bioline Agarose gel in 1x MOPS.

Ladder 2. 5µl Bioline HyperLadder I run on a 1% Bioline Agarose gel in TAE.

Ladder 3. 10µl Bioline HyperLadder VI run on a 0.7% gel in TAE and separated by Pulsed-field electrophoresis.

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High Resolution Grade Agarose

Bioline Agarose, HiRes Grade is a special grade of agarose powder. Each batch is extensively tested and certified to be free of DNase/RNase and DNA-binding activity. This agarose offers high gel strength, which provides easy-to-handle, clear and flexible gels for high resolution electrophoresis of small DNA fragments.

Agarose HiRes Grade is ideal for consistent and reproducible high resolution of PCR products with sizes below 1000bp. This agarose is capable of separating DNA fragments differing by only a few base pairs.

For separation of nucleic acids fragments >1000bp we recommend Bioline Agarose, Molecular Grade which offers superior resolution of high molecular weight fragments.

Fast and Convenient Pre-weighed Agarose Tablets

Bioline Agarose Tablets (DNase/RNase-free) are designed for greater convenience than powdered agarose, providing a no-mess environment. The exact formulation of each tablet allows for greater gel-to-gel consistency. Each tablet contains a pre-determined amount of agarose (0.5g agarose per tablet), eliminating the need to weigh out loose agarose powder. Just add the appropriate number of tablets to your buffer, incubate at room temperature for five minutes, heat the solution and then prepare your gel as normal. The separation range is similar to Agarose Molecular Grade.



Bioline Agaroses Specifications

Specification	Agarose, Molecular Grade	Agarose, HiRes Grade	Agarose Tablets
Appearance	White crystals or powder	White crystals or powder	White tablet
Gel strength	≥1200g/cm ² (1.0% gel)	≥1200g/cm ² (4% gel)	≥1200g/cm ² (1.0% gel)
Gel clarity/background	Passes test	Passes test	Passes test
Electroendosmosis (EEO)	≤0.12 (-m)	0.06 - 0.14 (-m)	0.10 - 0.20 (-m)
Melting temperature	88-90°C	≤92°C	88-90°C
Gelling temperature	36°C +/-2°C	31-39°C	37-39°C
Moisture (loss on drying)	≤8.5%	≤10%	<7%
Solids (ash/residue on ignition)	≤0.6%	≤1%	<10%
Sulfate	≤0.14%	<0.15%	<0.10%
DNase and RNase activity	None detected	None detected	None detected
DNA binding activity	None detected	None detected	None detected
Optimal range of separation	~500 to >40,000bp for gels 0.7-3%	<1000bp for gels 1-4%	~500 to >40,000bp for gels 0.7-3%

Bioline Agaroses Applications

Application	Agarose, Mol Grade	Agarose, HiRes Grade	Agarose Tablets
PCR products separation	>1000bp	<1000bp	>1000bp
Routine DNA/RNA separation	R	R	R
Preparative DNA/RNA	R	-	R
DNA/RNA recovery in gel	R	S	R
Pulsed-field electrophoresis	R	-	R
Blotting	R	S	R

R= Recommended S= Suitable

Ordering Information

PRODUCT	PACK SIZE	CAT NO.
Agarose, Molecular Grade	100g	BIO-41026
Agarose, Molecular Grade	500g	BIO-41025
Agarose, HiRes Grade	100g	BIO-41029
Agarose Tablets	300 x 0.5g	BIO-41028
Agarose Tablets	600 x 0.5g	BIO-41027

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