



**Product Insert**  
**Agarose HiRes Grade**

**Catalogue Numbers:**  
BIO-41029                      100g

**Features:**

- Excellent value and clarity
- High gel strength for easy-to-handle flexible gels
- DNase/RNase-free

**Applications:**

- DNA/RNA Electrophoresis
- Ideal for separating nucleic acids fragments below 1000bp

Agarose HiRes Grade offers consistent high resolution of nucleic acid fragments for below 1000bp. The agarose is capable of separating DNA/RNA fragments differing by only a few base pairs.

Agarose HiRes Grade offers high gel strength, which provides easy-to-handle, flexible gels for electrophoresis of small DNA and RNA fragments.

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

**Protocol:**

1. Pour adequate amount of electrophoresis buffer (TAE or TBE) in a heat-proof beaker
2. Weigh agarose, add it to the buffer and swirl
3. Heat in microwave until all the powder is dissolved
4. Cool to 55°C and pour into tray

**Tips:**

1. To prevent foaming during heating, soak the agarose in buffer for 10 minutes prior to heating.
2. For optimal separation, the following gel concentrations are recommended:

Buffer	Fragment size range (bp)		
	10-100	100-500	500-1000
1x TAE	6%	4%	3%
1x TBE	5%	3%	2%

**Product Specifications**

**Batch details:**

Batch No:                                      See bottle

**Storage Conditions:**

Cool, dry place

**Shipping Conditions:**

At Ambient Temperature

**Product Life:**

1 year from date of purchase

**Analytical Specifications:**

Appearance:	White crystals or powder
Gel strength: (4.0% Gel)	≥ 1200g/cm <sub>2</sub>
Electroendosmosis: (-m.)	0.06 – 0.14
Gelling temperature: (Dynamic measurement in 4.0% solution)	31-39°C
Melting Temperature: (4.0% solution)	≤ 92°C
Sulfate:	≤ 0.15%
Loss on drying:	≤ 10%
Residue on ignition:	≤ 1.0%
DNase / RNase activity and DNA Binding	None

**Associated Products:**

Product Name	Pack Size	Cat. No.
HyperLadder I	200 Lanes	BIO-33025
IMMOLASE	250 Units	BIO-21046
RNA Loading Buffer	1ml	BIO-38025
Colored DNA Loading Buffer	2 x 1ml	BIO-37045
MOPS-EDTA-Na Acetate Buffer	1 liter	BIO-38027

**Notes**

1. This product insert is a declaration of analysis at the time of manufacture.
2. Research Use Only.

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