

SPECIALTY AGAROSE

Low Melt, Hi-Res and 3:1 Grades



Green Choice
Organic Solvent Free

Benchmark's specialty agarose is the perfect choice when resolving small DNA/RNA fragments, isolating nucleic acids from gels or performing in-gel manipulations. Available in three grades, LM, HR and 3:1, it will meet all your electrophoretic needs.

Agarose LM - this low melt agarose can be used to resolve samples from 200bp to 25kb. It is perfect for prep gels as it has a melting point well below denaturation temperatures (65°C). The agarose remains liquid at 37°C, allowing for procedures such as restriction digests and labeling to be carried out in the gel.

Agarose HR - for applications such as analysis of STR's, AFLP's, and PCR products where separation of small fragments is required, Benchmark's Agarose HR is ideal. Clear resolution of 20bp to 800bp fragments can be carried out in this intermediate melting agarose.

Agarose 3:1 - this blended high resolution agarose is designed for separation of fragments less than 1,000bp. Gels made with Agarose 3:1 are suitable for analytical and blotting applications.

All Benchmark agarose is manufactured under a "green" process that eliminates the use of organic solvents. They provide gels with enhanced resolution and clarity, low EEO and low backgrounds. All the agarose is tested to be RNase, DNase, Protease and Endonuclease free.

- + **Three "specialty" grades available**
 - **Agarose LM:** Low melt agarose
 - **Agarose HR:** Ultra-high resolution agarose
 - **Agarose 3:1:** Blended agarose for small fragments
- + **Environmentally Friendly, no organic solvents used in processing**
- + **Enhanced resolution with low background**

Technical Data

| | Agarose LM (Item: A1801-LM) | Agarose HR (Item: A1801-HR) | Agarose 3:1 (Item: A1801-31) |
|--------------------------|--------------------------------|-------------------------------------|---------------------------------|
| Moisture: | ≤ 10% | ≤ 10% | ≤ 10% |
| EEO (electroendosmosis): | ≤ 0.1% | ≤ 0.1% | ≤ 0.1% |
| Sulfate: | ≤ 0.1% | ≤ 0.1% | ≤ 0.1% |
| Gelling Temp. (at 1.5%): | 26° to 30° C | ≤ 33° C | ≤ 36° C |
| Melting Temp. (at 1.5%): | ≤ 65° C | ≤ 70° C | ≤ 80° C |
| Gel Strength: | >200 g/cm ² (1%) | >750 g/cm ² (1.5%) | >650 g/cm ² (1.5%) |
| DNase, RNase: | None detected | None detected | None detected |
| Endonuclease: | None detected | None detected | None detected |
| Protease: | None detected | None detected | None detected |
| Resolution: | 200bp to 25kbp | 20bp to 800bp | 50bp to 1kbp |
| Applications: | Prep gels In gel processing | AFLP's STR's PCR/Small fragments | PCR Blotting |

Ordering Information

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|----------|---|
| A1801-LM | Agarose LM, Low melting agarose, 100g |
| A1801-HR | Agarose HR, Hi Resolution agarose, 100g |
| A1801-31 | Agarose 3:1, 3:1 Blended agarose, 100g |

Also Available, Standard Molecular Biology Grade Agarose:

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|-------|---|
| A1705 | Agarose LE, Standard grade, 500g |
| A2505 | Agarose LE, 0.5g tablets, 1000 tablets (500g) |



SoCal Biomedical
Orange County, CA
Phone: (424) 400-2340
Fax: (323) 372-3546
www.socalbiomedical.com