

Certified[™] agarose powders



BIO-RAD

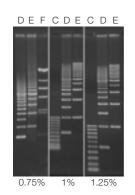
Certified™ agarose powders are genetic quality tested (GQT) grade to guarantee product quality and to ensure confidence in both routine separations and downstream molecular biology applications. This new line, which replaces our previous agarose powders, offers a complete selection of specialty agaroses, allowing you to choose the product optimal for your research needs. In addition, the product names are application oriented, simplifying your selection process. These ultrapure, highstrength, GQT grade Certified agarose powders are an outstanding value.

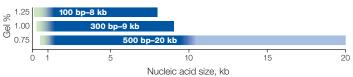
▶ Certified Molecular Biology Agarose

Certified molecular biology agarose is our general-purpose agarose recommended for routine separations of ~500 bp to 20 kb. This agarose is used to manufacture 0.8% and 1% ReadyAgarose™ gels. Like the entire line of Bio-Rad agarose powders, Certified molecular biology agarose is GQT grade, ensuring that DNA recovered from a preparative gel can be manipulated without compromising quality. The gels have high strength so they are easy to handle even at low agarose percentages, and have a high exclusion limit. The high electrophoretic mobility increases resolution and reduces the run time.

Analytical Specifications and Functional Tests

| Moisture | ≤7% |
|---|-----------------|
| Ash | ≤0.25% |
| Electroendosmosis (-m _r) | ≤0.12 |
| Sulfate | ≤0.12% |
| Clarity (Np) | ≤40 |
| Gel strength, 1% (g/cm²) | ≥1,800 |
| Gel strength, 1.5% (g/cm ²) | ≥3,200 |
| Gelation temperature (°C) | 36 |
| Melting temperature (°C) | 88 |
| DNase/RNase activity | None detected |
| DNA resolution ≥1,000 bp | Finely resolved |
| Gel background staining | Very low |
| | |





A full selection of for

Certified PCR Agarose

Melting temperature (°C)

DNase/RNase activity

Gel background staining

DNA bindina

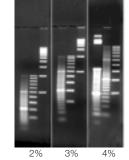
Certified PCR agarose is suggested for separations of DNA fragments 20 bp to 1,000 bp. This high-strength agarose forms gels that are easy to handle and remain flexible even at high gel percentages, reducing the risk of cracking or breaking. Unlike GQT products with similar sieving properties, PCR agarose is a standard gelling temperature agarose, making it faster and easier to prepare.

Analytical Specifications and Functional Tests <7% Moisture ≤0.35% Electroendosmosis (-m_r) < 0.12 Sulfate ≤0.11% Clarity (Np) <50 Gel strength, 1.5% (g/cm²) ≥2,000 ≥4,200 Gel strength, 4% (g/cm²) Gelation temperature (°C) 40

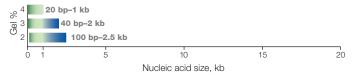
93

None

Very low



BCD BCD ABC



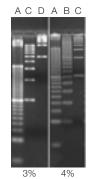
None detected

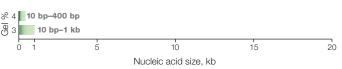
Certified Low Range Ultra Agarose

This agarose provides exceptional resolution of small PCR fragments and primers (~10 bp to 200 bp) at lower concentrations than standard gels. A 3% gel clearly resolves a 10 bp ladder, and a 4% gel approaches the resolution of an 8% polyacrylamide gel.

Analytical Specifications and Functional Tests

| Moisture | ≤7% |
|---|---------------|
| Ash | ≤0.35% |
| Electroendosmosis (-m _r) | ≤0.12 |
| Sulfate | ≤0.11% |
| Clarity (Np) | ≤50 |
| Gel strength, 1.5% (g/cm ²) | ≥600 |
| Gel strength, 3% (g/cm²) | ≥1,500 |
| Gelation temperature (°C) | 35 |
| Melting temperature (°C) | 80 |
| DNase/RNase activity | None detected |
| DNA binding | None detected |
| Gel background staining | Very low |



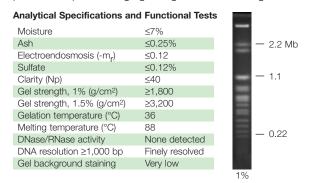


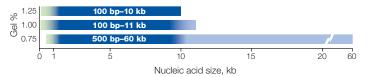
Lane legend

quality-tested agaroses every research need

▶ Certified Megabase Agarose

Certified megabase agarose has a high exclusion limit, high electrophoretic mobility, and a very high gel strength. This agarose is the optimal choice for CHEF and FIGE applications. The gel remains easy to handle at concentrations as low as 0.3% and allows shorter run times. In addition, low background staining provides superior imaging of high molecular weight DNA.



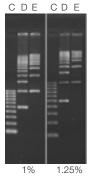


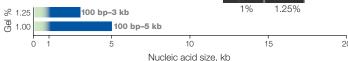
> Certified Low-Melt Agarose

This low melting temperature agarose has a high resolving capacity for DNA fragments ≥1,000 bp. It is suggested for preparative electrophoresis and in-gel applications such as digestion, ligation, PCR, transformation, and sequencing. This agarose is also recommended for embedding chromosomes and megabase-sized DNA for pulsed field applications.

| Analytical | Specifications | and | Functional | Tests |
|------------|----------------|-----|-------------------|-------|

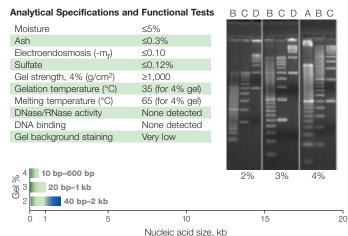
| Moisture | ≤7% |
|--------------------------------------|---------------|
| Ash | ≤0.4% |
| Electroendosmosis (-m _r) | ≤0.12 |
| Sulfate | ≤0.1% |
| Gel strength, 1% (g/cm²) | ≥250 |
| Gelation temperature (°C) | 26 (for 1.5%) |
| Melting temperature (°C) | 65 (for 1.5%) |
| DNase/RNase activity | None detected |
| DNA binding | None detected |
| Gel background staining | Very low |
| | |





▶ Certified PCR Low-Melt Agarose

Certified PCR low-melt agarose has a high sieving capacity and yields excellent resolution of fragments <1,000 bp in a low-melt or preparative format. This agarose is ideal for digestion by agarase and for all in-gel applications.



> Pulsed Field Certified Agarose

This agarose performs excellent separation and resolution of large DNA in pulsed field gel applications. The optimal separation range is 1 kb to 2 Mb. While gels cast with this agarose have longer PFGE run times than Certified megabase agarose, running conditions for this agarose are a preset selectable method of the CHEF Mapper®XA autoalgorithm.

Analytical Specifications and Functional Tests

| Electroendosmosis (-m _r) | ≤0.15 |
|--------------------------------------|----------|
| Gel strength, 1.5% (g/cm²) | ≥2,500 |
| Gelation temperature (°C) | 38 |
| Sulfate | ≤0.35% |
| Gel background staining | Very low |



| Certified Agarose Powders Selection Guide | | | | | | | |
|---|----------------------------|----------------------|----------------------------|---------------------------|-------------------------|--------------------------|--------------------------------|
| Application | Agarose | | | | | | |
| | Cortifica Molecular Bology | Conflica Post defose | Cottificat Con Paras Ultra | Conflict No Babase Naross | Conflict Control Agross | Confidence Convented Acc | Pulsed Field Certified Agences |
| Preparative: Quantum Prep® methods | • | • | • | • | | | |
| Preparative: Low-melt methods | | | | | • | • | |
| Preparative: Agarase methods | | | | | • | • | |
| Preparative: In-gel applications | | | | | • | • | |
| Postpreparative enzymatic treatments | • | • | • | • | • | • | |
| Tissue/cell culture | | | | • | | | |
| Pulsed field sample preparation | | | | | • | | |
| Blotting | • | • | | • | | | • |
| CHEF Mapper XA autoalgorithm | • | | | • | | | • |
| CHEF Mapper XA autoalgorithm preset pulsed field method | | | | | | | • |

Ordering Information

| Ordering | mormation | | | |
|--|---|--|--|-----|
| Catalog # | Size | Catalog # | Size | |
| 161-3100 161-3101 161-3102 Certified PC | • | 161-3111 161-3112 Certified PC 161-3113 | w-Melt Agarose 25 g 125 g R Low-Melt Agaros 25 g | se |
| 161-3103 161-3104 161-3105 | 25 g 125 g 500 g w Range Ultra Agarose | 161-3114 161-3115 Pulsed Field 162-0137 | 125 g 500 g Certified Agarose | |
| 161-3106 161-3107 | 25 g 125 g | 162-0138 | 500 g ike samples of Certifi | ied |
| Certified Me 161-3108 161-3109 161-3110 | gabase Agarose 25 g 125 g 500 g | agarose powders, please contact yo local sales representative. | | |

The polymerase chain reaction (PCR) process is covered by patents owned by Hoffman-LaRoche. Use of the PCR process requires a license.





Bio-Rad Laboratories, Inc.

Life Science Group

Web site www.bio-rad.com USA (800) 4BIORAD Australia 02 9914 2800 Austra (01)-877 89 01 Belgium 09-385 55 11 Brazil 55 21 507 6191 Canada (905) 712-2771 China (86-21) 63052255 Czech Republic (420) 2-4141 0532 Denmark 45 44 52-1000 Finland 358 (0)9 804 2200 France 01 47 95 69 65 Germany 089 318 84-177 Hong Kong 852-2789-3300 India (91-124) 6398112/113/114, 6450092/93 Israel 03 951 4127 Italy 39 02 216091 Japan 03-5811-6270 Korea 82-2-3473-4460 Latin America 305-894-5950 Mexico 52 5 534 2552 to 54 The Netherlands 0318-540666 New Zealand 64-9-4152280 Norway 47-23-38-41-30 Poland (48) 22-8126 672 Portugal 351-21-472-7700 Russia 7 095 721 1404 Singapore 65-2729877 South Africa 00 27 11 4428508 Spain 590 5200 Sweden 46 (0)8-55 51 27 00 Switzerland 061 717-9555 United Kingdom 0800-181134

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