

Roti[®]garoses

General informations and applications

Roti[®]garose is a neutral polysaccharide which is obtained in many purification steps from the cell wall of certain algae and red algae. Roti[®]garose forms very clear gels with all standard running buffers and will result in a sharp and clear separation of your biomolecules. Extremely pure agarose with very low interference binding to staining reagents which produces a low background and high contrast appearance after staining.



- **For clear and sharp bands**
- **Gels with high transparency**
- **Low background**
- **Suitable for all standard running buffers**
- **Compatible with all nucleic acid staining systems**
- **Non-toxic in cell immobilisation assays**
- **Of course DNase and RNase free**

Chemically this is a galactan which is capable of forming extremely solid gels, even at a low concentration. The pore size of the gels is determined by the concentration of the agarose used. Because there are no ionic groups in the gel, hydrophilic materials without any interaction with the gel matrix will also be separated according to their size. The high hysteresis of the agarose, that is the thermal stability after solidification, ensures that the gels remain reliably stable even during heat-producing running conditions.

Roth has the right agarose for each application:

Roti@garose	Art. No.	Application
Standard	3810	Routine gels, student's courses, general analyses (1-20 kb)
NEEO ultra quality	2267	All standard applications, qualitative and quantitative gels, screening and blotting.
Agarose Tablets	HP67	Highly reproducible gels, or simple applications in students courses. Suitable for all standard-gels (0.5-0.25 %).
GTQ	6352	Genetic engineering quality, for DNA-elution of fragments >1000 bp without melting the agarose*
Broad Range	T846	For the total analytical range (200 bp up to 40 kb), Pulse-Field electrophoresis, blotting, shift assays. Ideal when only a few agaroses are to be used in the laboratory.
Pulsed-Field	3771	Separation of large fragments (from 20 kb up), Pulsed Field gel electrophoresis (PFGE)
HR PLUS	HP30	Analysis of fragments between 100 and 3000 bp
High Resolution	K297	Analysis of fragments between 50 and 1000 bp
Low Melt	6351	With low melting and gelling temperatures (MT 65.5 °C, GT 24-28 °C). For gel elution from melted agarose.
LM / PCR	HP31	Genetic engineering quality with low melting and gelling temperatures (MT <65 °C, GT <35 °C). For DNA-elution of fragments <1500 bp from melted agarose.
Super LM	HP45	With extremely low melting and gelling temperatures. (MT <62 °C, GT <20 °C). For gel elution from melted agarose. Recommended for in-gel analysis, capillary electrophoresis and cell and tissue culture.
MEEO ultra quality	2268	With medium EEO. For immune, serum and antibody electrophoresis.
HEEO ultra quality	2269	With high EEO, For protein precipitation and countercurrent electrophoresis.
Synergel®	0184	Agarose additive for finer pore formation. Increases the separative power of the agarose. For fragments from 10 bp up.

* **Tip:** Use Ultrafree®-DA gel extraction kit AE86.1

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