

PRODUCT INFORMATION

Agarose SERVA 3:1

molecular biology grade

Cat. No.: 11385

PRODUCT DESCRIPTION

Special mixture of agarose formulated for high resolution electrophoresis of small DNA, RNA and PCR fragments.

Application: Separation of PCR fragments and blotting as well as analytical electrophoresis of DNA and RNA fragments (10 bp to 1,000 bp).

Gel casting:

1. Use a flask (2 – 4 x volume of the gel solution being prepared)
2. Add the correct amount of dry agarose to a measured quantity of electrophoresis buffer, swirl the flask and allow agarose fully soak in buffer to prevent clumping.
3. Weigh the flask and suspension before heating.

To melt agarose using a water bath:

- Heat the slurry in a boiling water bath and boil the solution for 5 – 10 min, continuously stirring, until the agarose is completely dissolved.

To melt agarose using a microwave:

- Heat the slurry on medium power setting until it starts to boil and allow boiling for 30 s, remove the flask from microwave and swirl gently to suspend any remaining agarose particles.
 - Reheat on high power for 1 min or until solution is clear and all particles are dissolved, remove the flask from microwave and swirl it gently. **Caution: The solution may be very hot.**
4. Add hot dist. H₂O to bring to the starting weight (step 3) and mix well.
 5. Cool the solution to approx. 60 °C before casting the gel.

Separation range of agarose gels:

DNA size range (bp)	500 – 1,0000	100 - 500	10 - 100
Agarose gel (%), 1x TAE buffer	3.0	4.0	6.0
Agarose gel (%), 1x TBE buffer	2.0	3.0	5.0

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