

## GRS Agarose LE

#GA110.0500  
(for research only)

<b>Product:</b>	GRS Agarose LE is a molecular biology grade standard agarose suitable for all analytical and preparative electrophoresis of nucleic acids in routine gel electrophoresis.
<b>Applications:</b>	GRS Agarose LE is useful for a broad range of applications: PCR product analysis, restriction enzyme digest analysis, Northern Blotting, etc. Depending on the concentration of GRS Agarose LE, the size range of nucleic acid separation will vary between 100bp and 15kb. Because of its low EEO, DNA will have a high electrophoretic mobility. Also suitable for protein electrophoresis such as radial immunodiffusion.
<b>Quantity:</b>	500g
<b>Appearance:</b>	white powder
<b>Storage:</b>	Room temperature. Stable for at least 3 years.

### Specifications:

DNases/RNases/Proteases.....	not detected
Gel strength (1,5%).....	>2000g/cm <sup>2</sup>
Gel point (1,5%).....	36°C (± 1,5°C)
Melting point (1,5%).....	88°C (± 1,5°C)
Ash.....	<0,5%
Sulfate.....	<0,15%
Clarity (1,5%).....	<4 NTU

### Instructions:

1. Make sure to use a flask more than twice the size of the solution you will prepare
2. Add the desired volume of electrophoresis buffer to the flask
3. Weigh the desired amount of agarose and add to the flask. Swirl well.
4. Heat the mixture in a water bath until 70-80°C and then boil for 5-10 minutes with continuous stirring until the agarose is completely dissolved. Alternatively, heat the mixture in a microwave oven and boil it for 30 seconds. Swirl to resuspend remaining agarose particles and heat again in high power for 1-2 minutes (until the solution is clear and all particles are dissolved).
5. Remove from the microwave or heater, swirl again and allow the solution to cool down to ~60°C before adding any DNA stain (if desired) and pouring to cast the gel.