



## Product Datasheet

<b>Product Name</b>	HgAgarose LE, Multi-purpose Agarose
<b>Cata No</b>	CB300005
<b>Size</b>	100g
<b>CAS</b>	9012-36-6
<b>Storage</b>	Room temperture
<b>Appearance</b>	White to off-white powder
<b>EEO</b>	≤ 0.13
<b>Gelling Point</b>	36°C±1.5°C (1.5% gel)
<b>Melting Point</b>	88°C±1.5°C (1.5% gel)
<b>Solubility</b>	Clear colorless solution at 1g in 100ml water
<b>Gel Strength</b>	≥ 1200 g/cm <sup>2</sup> (1% Gel)

### Description

HgAgarose LE Agarose is a low EEO, multi-purpose, standard melting point agarose that yields high resolution sharp DNA bands with high clarity and low background. Its optimized gel strength enhances ease of gel processing and handling. Manufactured using innovative organic solvent free manufacturing process that is greener and more environment friendly.

### HgAgarose Gel Preparation Protocol

- 1) Use a flask that is 2 to 4 times the volume of the 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 the buffer to prevent clumping.
  - 3) Weigh the flask and solution before heating.
  - 4) **If use boiling water bath:**
    - To melt agarose, simply heat the slurry in a boiling water bath, bring the solution to a boil and allow it to boil for 5-10 minutes stirring continuously, until agarose dissolves completely.
- If use microwave oven:**
- Heat the slurry in microwave on high power setting until it starts to boil, allow boiling for 30 seconds.
  - Remove the flask from microwave, swirl gently to re-suspend any remaining agarose particles.
  - Reheat on high power for 1-2 minutes or until the solution is clear and all particles are dissolved.

**\* For Non-Clinical Research Use Only \***



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- Remove the flask from the microwave oven, and gently swirl to it.

***Use caution when handling as solution may be extremely heated.***

5) Add additional hot distilled water to bring the contents to the original weight (Step 3) and mix well.

6) Cool the solution to approx. 60°C before pouring.

### ***Separation of DNA in agarose***

Agarose gel (%)	0.3	0.6	0.7	0.9	1.2	1.5	2.0
DNA size range (kb)	60-5	20-1	10-0.8	7-0.5	6-0.4	4-0.2	3-0.1

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