Product Specifications



An ISO 9001 Certified Company

AGAROSE Low Melting Point

<u>Product Number</u>	<u>Size</u>
IB70051	25gm
IB70050	50gm
IB70056	100gm
IB70057	250gm
IB70058	500gm
IB70059	1Kg

PHYSICAL SPECIFICATIONS

Moisture	≤ 7% ≤ 0.4%
EEO	≤ 0.12
Sulfate	<u> ≤ 0.12%</u>
Clarity @ 1.5% (NTU)	≤4
Gel Strength @ 1.5% (g/cm ²)	≥500
Gelling Temperature @ 1.5%	24°C - 28°C
Melting Temperature @1.5%	≤ 65.5°C
DNase assay	None Detected
RNase assay	None Detected
Protease assay	None Detected
Gel analysis assay	Pass
DNA Extraction assay	Pass

STORAGE

Store at room temperature. Protect from moisture. Light sensitive.

Agarose gels may be stored wrapped in plastic or submerged in 1X running buffer at $+4^{\circ}$ C until needed.

WARNING

Classification: No known hazards

FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

Building Quality Scientific.

CAS NO.	
CAS#	9012-36-6

RECOMMENDED USE

IBI agarose is a highly refined and purified product. Each lot is physically tested and verified for performance in its designed application. The results of this testing must fall within a very tight range of acceptable performance parameters, assuring lot to lot consistency. Proper preparation of the agarose gel is very important and should not be viewed as a simple procedure. Agarose gels are typically prepared in commerical grade microwave ovens, these ovens contain "hot spots" that can vary by up to 15 degrees within inches of placement within the chamber, resulting in foaming of the agarose slurry during preparation. Please follow the procedure below to properly prepare your IBI agarose product and prevent foaming.

Preparing IBI Agarose in a Commercial Microwave

Recommended procedure for < 2% gel concentrations:

- Using a flask, 2–4 times the desired solution volume, add cold buffer and stir bar.
- Place the flask on a magnetic stirrer and slowly sprinkle the agarose powder while stirring constantly to prevent the formation of agarose clumps. Remove stir bar.
- Weigh the flask and solution before heating.
- Place the flask in the microwave and heat on high power for two minutes.

Note: Since different microwave ovens have different operating strengths and uniformity within the chamber is erratic, some foaming may occur before the two minutes has expired. If foaming occurs before two minutes, stop the microwave and remove the flask at one minute. Carefully swirl the flask to suspend the Agarose material in the buffer.

- Foaming occurs when agarose particles become super-heated. Re-heat the material on high power for 15 20 second intervals and swirl the solution between heating intervals.
- Return the flask to its original weight by adding warm distilled water.
- Continue to gently swirl the material in the flask until cooled to 50 60°C. Then pour into casting tray.

Preparing IBI Agarose in a Boiling Water Bath

- Using a flask, 2–4 times the desired solution volume, add cold buffer and stir bar.
- Place the flask on a magnetic stirrer and slowly sprinkle the agarose powder while stirring constantly to prevent the formation of agarose clumps. Remove stir bar.
- Weigh the flask and solution before heating.
- Place flask in water bath & bring solution to a boil while stirring the solution and allowing to gently boil for 15–20 min. or until the agarose dissolves completely.
- Return the flask to its original weight by adding warm distilled water.
- Continue to gently swirl the material in the flask until cooled to 50–60°C. Then pour into casting tray.