



# Certificate of Analysis

## AGAROSE, LOW MELTING POINT

**Catalog Number:** IB70050, IB70051, IB70056, IB70057, IB70058, & IB70059

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

**Lot Number:** 18E4002

**Molecular Formula:** n/a

**Molecular Weight:** n/a

**Appearance:** Fine, homogeneous powder

**Color:** White

<u>Assay</u>	<u>Min</u>	<u>Max</u>	<u>Actual</u>
Clarity @ 1.5% (NTU)		≤4	3.66
pH in 1.5% solution			7.63
pH in 1.5% gel			7.52
Moisture		≤7%	5.48%
Ash		≤0.4%	0.39%
Sulfate		≤0.12%	0.080%
Electroendosmosis-Mr (pH 8.4)			0.11
Gel Strength @ 1.0% (g/cm <sup>2</sup> )			285
Gel Strength @ 1.5% (g/cm <sup>2</sup> )	≥500		980
Gelling Temperature @ 1.5%	24.0°C	28.0°C	26.8°C
Melting Temperature @ 1.5%		≤65.5°C	65.3°C
Colorimetry (Absorbance)			0.034
DNase Assay			NONE
RNase Assay			NONE
Comparative assay of different size DNA Fragments			PASS
Background fluorescence assay in Ethidium Bromide			PASS

<u>Particle Size (A.S.T.M.):</u>	
oversieve 60	0.35%
oversieve 100	21.45%
oversieve 140	37.15%
oversieve 200	23.05%
undersieve 200	19.55%

### Storage

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

*This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.*

Signature: Toby Frericks  
Date: 05/22/2018