



Certificate of Analysis

AGAROSE, ULTRA SIEVE

<u>Catalog #</u>	<u>Size</u>
IB70054	25gm
IB70055	250gm

Catalog Number: IB70054, IB70055

Lot Number: 16E5002

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)		≤5	3.25
pH in 1.5% solution			6.45
pH in 1.5% gel			6.48
Moisture		≤7%	4.78%
Ash		≤0.35%	0.31%
Sulfate		≤0.11%	0.085%
Electroendosmosis-Mr (pH 8.4)		0.12	0.11
Gel Strength @ 1.5% (g/cm ²)		≥600	1,655
Gel Strength @ 3.0% (g/cm ²)		≥1,500	3,450
Gelling Temperature @ 3.0%		≤35.5°C	34.2°C
Melting Temperature @ 3.0%		≤80.0°C	74.3°C
Colorimetry (Absorbance)			0.031
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	0.10%
oversieve 100	20.95%
oversieve 140	38.15%
oversieve 200	18.75%
undersieve 200	22.15%

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: K. McCarthy
Date: 05/31/2016