

Certificate of Analysis

Catalogue No: MB052

Product name: Agarose (ultrapure grade)

Batch No: ZQ081

Expiry Date: 01/2029

Certification Date: 16/09/2024

	Specification	Result
Ash (%)	≤ 0.4	0.28
Clarity 1.5%	≤ 3	2.79
Gel strength 1% (g/cm ²)	≥ 1200	1280
Gel strength 1.5% (g/cm ²)	≥ 2500	2960
Gelling temperature 1.5% (°C)	36 ± 1.5	36.2
Melting temperature 1.5% (°C)	88 ± 1.5	88.7
Sulphate (%)	≤ 0.1	0.097
DNase/RNase activity	None detected	Pass
EEO	0.05 - 0.13	0.12
DNA binding	None detected	Pass
DNA resolution	Finely resolved	Pass
Moisture (%)	≤ 10	5.04
Gel background	Very low	Pass
Southern blotting	-	Pass
Colour	White	Pass
Appearance	Fine, homogeneous powder	Pass
Particle size (A.S.T.M) over sieve 60 (%)	-	0.85
Particle size (A.S.T.M) over sieve 100 (%)	-	31.70
Particle size (A.S.T.M) over sieve 140 (%)	-	41.40
Particle size (A.S.T.M) over sieve 200 (%)	-	14.45
Particle size (A.S.T.M) under sieve 200 (%)	-	12.15
pH in solution (1.5%)	-	7.30
pH in gel (1.5%)	-	7.47
Colorimetry 450 nm (1.5%)	-	0.021
Comparative assay of different size DNA fragments		Pass
Background fluorescence assay in ethidium bromide		Pass
In-gel restriction and ligation (assayed enzymes: EcoRI, HindIII and DNA t4 ligase)		Pass
Inhibition to restriction enzymes and ligase	None detected	Pass

This batch meets our specification.

Paula Mimoso
Product Responsible

(as this certificate is a computer printout, it has not been signed or dated by hand)