

CERTIFICATE OF ANALYSIS

Product Name: Agar Granulated
 CAS Number: 9002-18-0
 Batch Number: 25/MFM/3215
 Expiry Date: October 2030
 Specification: Bacteriological Grade

TESTS	SPECS	RESULTS
Appearance	Free flowing powder, no oxidants	Conforms
Colour	Light Cream	Conforms
Mesh size (ASTM) %	>50 on mesh 80 >90 on mesh 200	Conforms
Gel Strength (Nikkan method) g/cm ²	700-1000	850
Moisture %	≤15	12.1
Total ash contents %	≤ 5.0	3
pH (1.5% Solution 100°C)	6.2-7.2	6.7
Gelling Point (1.5 solution) °C	36.0-37.0	36.5
Melting Point (1.5 solution) °C	> 85.0	89.0
Turbidity after autoclave NTU	≤ 5.0	3.9
Colorimetry (Absorbance in 1.5% sol. after autoclave)		
430 nm	≤ 0.085	0.079
525 nm	≤ 0.050	0.023
655 nm	≤ 0.025	0.010
Calcium	≤ 2500 ppm	1425 ppm
Magnesium	≤ 1000 ppm	570 ppm
Total colony count	≤ 1000 cfu/g	900 cfu/g
Heat resistant thermophilic spores 121°C – 15 min	Absent	Absent
Heat resistant mesophilic spores	Absent	Absent
Toxicity N. meningitides	Non-toxic	Passes Test
Growth support capability	Growth of all control cultures is typical & comparable to control lot.	Conforms

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5th November 2025