

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. meningitidis | 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