



PRODUCT SPECIFICATION SHEET

PRODUCT: Agar, Bacteriological Grade, Type B (Granulated)

General Description: Derived from *Gelidium* seaweeds

Primary Application: Use in microbiological and tissue culture media

Physical and Chemical Characteristics:

Appearance: Free flowing, homogeneous powder

Color: White to light cream

Particle Size: $\geq 60\%$ does not pass 40 mesh sieve

Moisture: 11% or less

Gel Strength: 550-800 g/cm² (Nikan, 1.5% sol)

Gel Point: 33-38⁰C (1.5% sol)

Melting Point: 83-87⁰C (1.5% sol)

pH in Gel: 5.5-7.5 (1.5% sol)

Turbidity: Less than 50 Nephelos (Coleman), 8.5 NTU's or less (Hach)

Ash: 6.5% or less

Calcium: <3000 ppm

Magnesium: <1000 ppm

Solubility: In boiling water

Microbiological Analysis:

Passes growth performance tests with known ATCC strains.

Total Plate Count: <5000/g

Coliforms: <3/g

E. coli: Negative

Salmonella: Negative

Yeast & Mold: <200/g

Thermophilic Spores: ≤ 20 cfu/g