

## PRODUCT INFORMATION

Bacteriological Agar

Cat. No. A01-102

### DESCRIPTION

Bacteriological Agar is a water-soluble colloidal extract obtained from certain species of marine red algae including Gelidium, Pterocladia and Gracilaria. Impurities, debris, minerals and pigment are reduced to specific levels during manufacture. The majority of microorganisms cannot digest agar, thus making it an excellent solidifying agent. Bacteriological Agar is optimized for best magnesium and calcium content. Detrimental ions such as iron and copper are reduced.

### PREPARATION

The addition of 13 to 15 g/L is recommended for the preparation of most dehydrated culture media formulations. If the culture medium has a pH of 6.0 or less, 20.0 g/L should be used. Semi-solid medium is obtained with agar concentrations of 3 to 8 g/L.

### QUALITY CONTROL SPECIFICATIONS

| PARAMETER                           | SPECIFICATION               |
|-------------------------------------|-----------------------------|
| Granulometry (Over Sieve - 60 Mesh) | > 95%                       |
| Moisture                            | ≤ 12%                       |
| Ash                                 | ≤ 6.5                       |
| Turbidity                           | ≤ 8 NTU                     |
| Gel Strength                        | 550 – 850 g/cm <sup>2</sup> |
| Colorimetry (nmu 450)               | ≤ 0.25                      |
| Gel Point                           | 36 ± 3 °C                   |
| Melting Point                       | 86 ± 3 °C                   |
| pH                                  | 6.5 ± 1.0                   |



## **STORAGE**

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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