

### ★ Storage

Store at Room temperature.

### ★ Contents

- Product Manual
- Agar, Bacto

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Shipping Condition

Ship at ambient.

### ★ Description

Agar is used throughout the world to provide a solid surface containing medium for the growth of bacteria and fungi. Microbial growth does not destroy the gel structure because most microorganism are unable to digest agar. Other ingredients are added to the agar to meet the nutritional needs of the micro-bes. Many specific formulations are available, because some microbes prefer certain environmental conditions over others.

Agar is typically used in a final concentration of 1-2% for solidifying culture media. Smaller quantities (0.05%-0.5%) are used in media for motility studies (0.55% w/v) and for growth of anaerobes (0.1%) and microaerophilies.

Agar Bacto is a solidifying agent used in preparing microbiological culture media. Although Agar Bacto has wide quality control parameters than other bacterio-logical agars, solubility, gelation temperature, and solidity are carefully monitored to permit its use. Agar Bacto is suitable for many bacteriological applications.

GenDEPOT Agar, Bacto is a solidifying agent that is a purified agar with reduced extraneous matter, pigmented portions, and salts. It is available in the form of fine, light colored granules. It is used in preparing microbiological culture media.

### ★ Dehydrated Appearance

White to Cream Powder

### ★ Solution Appearance (1.5%)

Clear to very slightly opalescent to opalescent.

### ★ CAS Number

9002-18-0

### ★ Molecular Formula

C<sub>12</sub>H<sub>18</sub>O<sub>5</sub>

### ★ Specification

Test	Specification
Appearance	White to Cream Powder
Moisture	< 12 %
Starch	None Detected
Insoluble Matter	< 0.5 %
Total Ash	< 3 %
Acid Insoluble Ash	< 1 %
Swelling Index	≥ 9 ml
Arsenic	< 3 ppm
Cadmium	< 1 ppm
Heavy Metals	< 10 ppm
Lead (As Pb)	< 5 ppm
Mercury	< 1 ppm
Water Absorption	< 75 mL
pH (1.5%, H <sub>2</sub> O, 60°C)	6.5 - 7.5
Gel Strength (1.5%, 25°C)	700 - 850 g/cm <sup>2</sup>
Gel Temperature	32 -38 °C
Total Colony Count	< 1000 cfu/gm
Coliform Bacteria in 10 gm	Absent
E. coli in 10 gm	Absent
Mold	< 100 cfu/gm
Yeast	< 100 cfu/gm
Bacterial Cell Culture Tested	Normal Bacterial Growth

### ★ Related Products

Product Name	Cat No
LB Broth, Lennox	L2108
LB Broth, Miller	L2109
Agar, Plant Tissue Culture Tested	L2008
LB Agar, Lennox	L2201
LB Agar, Miller	L2202