

**Agar**

Purified agar for bacteriological use and culture media preparation

**PHYSIC-CHEMICAL CHARACTERISTIC**

Clarity (1.5% w/v)	8.2 NTU
pH at 25°C	6.75 ± 0.75
Gel Strength	950 g/cm2 maximum
Loss on Drying	12% maximum (9% on average)
Gelation Point	35°C
Melting Point	88°C
Divalent Cations	250 ppm
Heavy Metals (As, Pb)	< 10 mg/kg

**DESCRIPTION**

Agar is a solidifying agent used for culture media preparation, it is a purified agar from which the extraneous matter, pigmented portions and salts have been removed or reduced to a minimum. It is an hydrosoluble extract from red algae and can be used as a solidifying agent in bacteriological culture media or for determining motility and growth of anaerobes and microaerophiles.

**PREPARATION**

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 (0.5%w/v), growth of anaerobes (0.1%) and microaerophiles. 1.5% aqueous solution supplies solid gel at temperature of 35 °C because agar does not melt at temperature lower than 85 °C. The addition of such amounts of agar to liquid media permits all degrees of oxygen tension to exist, thus aids in the development of many fastidious aerobic and anaerobic organisms.

**TECHNIQUE**

Agar can be used as an ingredient of dehydrated culture media and need dissolution in distilled or deionized water and sterilization by autoclaving.

**STORAGE**

The powder is very hygroscopic, store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

**WARNING AND PRECAUTIONS**

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use.

**DISPOSAL OF WASTE**

Disposal of waste must be carried out according to national and local regulations in force.

**REFERENCES**

1. Hitchens, A.P., and M.C.Leikind (1939) The introduction of agar-agar into bacteriology. J. Bacteriology 37:485-493
2. United States Pharmacopeia Convention (1995) The United States Pharmacopeia 23rd ed. Pharmacopeia Convention, Rockville, MD

**PACKAGE**

Code	Content	Packaging
611001	500 g	500 g of product in plastic bottle
621001	100 g	100 g of product in plastic bottle
6110015	5000 g	5000 g of product in plastic bottle

**pH of THE MEDIUM**

6.75 ± 0.75

**SHELF LIFE**

4 years







**QUALITY CONTROL**

Dehydrated powder

Appearance: free-flowing, homogeneous

Colour: light beige

**TABLE OF SYMBOLS**

<b>LOT</b>	Batch code		Consult instructions for use		Manufacturer		Contains sufficient for <n> tests
<b>REF</b>	Catalogue number		Temperature limitation		Use by		Keep away from heat sources