



## Agar Agar Powder. 500 g

Agar is used as a solidifying agent used in microbiological culture media.

### Product Presentation:

Cat No.	Product description	Pack Size
12010010500	Agar Agar Powder	500 Gram

### Principle

Agar is a phycocolloid, water soluble polysaccharide, extracted from a group of red-purple marine algae (Class *Rhodophyceae*) including *Gelidium* and *Gracilaria*. Agar is normally used in final concentration of 1-2% for solidification of culture media. The most important properties of agar are:

- ✓ Good transparency to allow identification of colony type.
- ✓ Consistent gelling (32°C-40°C) and melting (approximately 85°C) temperatures, a property known as hysteresis.
- ✓ Free from toxic substances (bacterial inhibitors).

### Directions

- ✓ Refer to the final concentration in the formula of the medium being prepared.

### Storage and Stability

- ✓ Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Quality Control

Test	Specifications
Appearance	Off white coloured, fine, free flowing, Hygroscopic spray dried powder.
Solubility (2%)	Soluble in distilled water $\geq 80^{\circ}\text{C}$
Colour and Clarity of the medium	Clear to slightly opalescent solution about 50°C
pH at $25 \pm 2^{\circ}\text{C}$	6.50 - 7.50
Ash Content	Not More Than 10%
Loss on Drying (Moisture Content)	Not More Than 5%
Agar Plates	Solidification at 41 °C Clear to slightly opalescent gel.
Gel Strength	At 1.2% firm gel after solidification. At 1.5% firm gel after solidification. At 2.0% firm gel after solidification.

### FACTORY & OFFICE

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Test	Specifications
Total microbial count	1000 cfu/g
E. coli	Absent
Salmonella	Absent
Pseudomonas aeruginosa	Absent
Staphylococcus aureus	Absent

**Warranty**

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

**Disposal**

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must ensure safe disposal of used or unusable preparation of the products.

**Reference**

- ✓ United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.

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