



GOSLAR BIOTECH
Your Partner in Sera

Product Data Sheet

AC- AGAR

Product No. GB-DCM-00002-1A

Product Description

AC Medium support an early and luxuriant growth of aerobic, anaerobic and microaerophilic microorganisms. Many pathogenic and saprophytic aerobes can also be isolated and cultivated using AC Medium. This medium can also be used for sterility testing of solutions and biological products not containing mercurial preservatives. AC Agar does not exhibit the toxicity shown by some media containing sodium thioglycollate for some organisms as reported by Christensen and Malin and Finn. Earlier studies performed have reported the usefulness of using this medium for the cultivation of a wide variety of organisms. Kolb and Schneither used AC Agar to test the viability of *Bacillus anthracis* after exposure to methyl bromide to test the efficiency of methyl bromide as a germicidal and sporicidal agent.

Product Specifications

Ingredients	Gms / Ltr
Proteose peptone	20.000
Beef extract	3.000
Yeast extract	3.000
Malt extract	3.000
Dextrose (Glucose)	5.000
Ascorbic acid	0.200
Agar	1.000

PRINCIPLE

The medium contains Proteose peptone, Beef extract, yeast extract and malt extract serve as the carbon and nitrogen sources in addition to being a source of vitamins and cofactors. Dextrose serves as the fermentable carbohydrate source of energy. Ascorbic acid in the media helps to improve the clarity of the medium.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium: Light amber coloured clear solution after cooling to room temperature. PH (at 25°C): 6.9±0.1



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Microorganism	ATCC	Inoculum	Growth	Incubation Temperature	Incubation Period
Clostridium perfringens	12919	50-100	Luxuriant	35-37°C	18-24 Hours
Escherichia coli	25922	50-100	Luxuriant	35-37°C	18-24 Hours
Neisseria meningitidis	13090	50-100	Luxuriant	35-37°C	18-24 Hours
Staphylococcus aureus subsp. aureus	25923	50-100	Luxuriant	35-37°C	18-24 Hours
Streptococcus mitis	9811	50-100	Luxuriant	35-37°C	18-24 Hours
Streptococcus pneumoniae	6303	50-100	Luxuriant	35-37°C	18-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

Precautions and Disclaimer

- Suspend 31.5 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Distribute 10 ml amounts into tubes containing inverted Durham's tubes.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 10 minutes.

This product is for research use only.