

BHI Agar Slant w/ 10% Sheep Blood, Chloramphenicol and Gentamicin Slant (M840)

Recommended for recovery of pathogenic fungi from specimens heavily contaminated with bacteria and saprophytic fungi.

Composition

Ingredients	g/ L
Infusion powder -----	12.500
BHI powder -----	5.000
Proteose peptone -----	10.000
Dextrose (Glucose) -----	2.000
Sodium chloride -----	5.000
Disodium phosphate -----	2.500
Chloramphenicol -----	0.050
Gentamicin -----	0.050
Agar -----	15.00
Sheep blood -----	100.00 ml

Description

BHI Agar is highly nutritious and can support luxuriant growth of wide variety of microorganisms. It can be further enriched by the addition of blood or rendered selective by adding different antibiotics. It is a general purpose medium used for primary isolation of aerobic bacteria from clinical specimens. Addition of 50 mg/l chloramphenicol and 50mg/l gentamicin along with 10% sterile sheep blood is often recommended for inhibition of bacteria and isolation of pathogenic systemic fungi. Some fungi may be inhibited on this medium with 10% sheep blood, gentamicin and chloramphenicol. Sheep blood added to the basal medium provides essential growth factors for the more fastidious fungal organisms.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines. After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. For professional use only. Follow good microbiological lab practices while handling specimens and culture.

Limitations

1. As organisms differ in their nutritional requirements, some fastidious organisms may be inhibited or may show poor growth.
2. Further tests must be carried out for complete identification.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality control**Physical/Chemical control**

Color : Cherry red coloured slant pH: 7.20-7.60

Cultural Response

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Microbiological activity

Organisms	Inoculum CFU/ml	Growth
Candida albicans ATCC 10231	50-100	Good growth, white colonies, 24-48hrs incubation at 35°C
Streptococcus pneumoniae ATCC 6303	50-100	Good growth
Escherichia coli ATCC 25922	50-100	Good growth
Staphylococcus aureus ATCC 25923	50-100	Good growth

Storage and Shelf Life

Store between 2-8°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Reference

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
2. Murray P. R., Baron J. H., Tenover F. C., Tenover J. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
3. Ajello L., Georg L., Kaplan W. and Kaufman L., 1963, CDC Laboratory Manual for Medical Mycology, PHS publication No. 994, U.S. Govt. Office, Washington, D.C