



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Beef Extract Broth

Product Code: DM 1807

Application: - Beef Extract Broth is used as a general purpose nutrient medium which can support growth of not particularly fastidious bacteria.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Beef extract	3.000
Sodium chloride	5.000
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

The majority of organisms studied in medical bacteriology are either pathogens or commensals of the human body. In order to obtain suitable growth the artificial culture medium should provide adequate nutrients and a pH (about 7.2) which are similar to those of the tissues and body fluids. For routine purposes many of these nutrients are supplied by aqueous extracts of beef and peptone, which is a product of the digestion of protein ⁽¹⁾. Beef Extract Broth can be used as a general-purpose nutrient medium which is also recommended for preparation of pure culture of *Candida* species for carrying out fermentation studies ⁽²⁾. Beef Extract Broth is a non-selective nutrient medium containing beef extract and peptic digest of animal tissue as a source of nitrogen and carbon and sodium chloride as a source of electrolytes.

Methodology

Suspend 18 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Dispense broth in tubes in 10 ml amount. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured, clear solution without any haziness in tubes

Reaction

Reaction of 1.8% w/v aqueous solutions at 25°C. pH : 7.2±0.2

pH range 7.00-7.40

Cultural Response/Characteristics

DM1807: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.





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Organism	Inoculum (CFU)	Growth
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	luxuriant
<i>Salmonella Typhi</i> ATCC 6539	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	Luxuriant

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8^o in sealable plastic bags for 2-5 days.

Further Reading

1. Collee J. G., Fraser A. G., Marimon B. P., Simmons A., (Eds.) ,1996, Mackie and McCartney Practical Medical Microbiology, 14th Ed., Churchill Livingstone.
2. Finegold S. M. and Baron E. J., (Ed.), Bailey and Scott's Diagnostic Microbiology, 1986, 7th Edition, The C.V. Mosby Company, St. Louis.

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- User must ensure suitability of the product(s) in their application prior to use.
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