

TECHNICAL DATA SHEET

Actinomyces Broth

Principle

Actinomyces broth contains beef heart infusion, yeast extract, starch and dextrose, which act as sources of carbon, nitrogen, vitamins and other essential growth factors. Casein enzymic hydrolysate provides completely hydrolyzed protein as a nitrogen source. L-cysteine is source of nitrogen and growth stimulator. Starch is carbon source. Sodium chloride maintains osmotic balance of medium. The metallic salts like sodium chloride, monopotassium phosphate, ammonium sulphate, magnesium sulphate and calcium chloride provide essential electrolytes and minerals.

Use: For the maintenance and cultivation of Actinomyces species

Contents*

Ingredients	Gram/Liter
Beef Heart Infusion	10.000
Tryptose	10.000
Casein Enzymic Hydrolysate	4.000
Yeast Extract	5.000
Dextrose	5.000
L-Cysteine Hydrochloride	1.000
Starch Soluble	1.000
Sodium Chloride	5.000
Monopotassium Phosphate	15.000
Ammonium Sulphate	1.000
Magnesium Sulphate	0.200
Calcium Chloride	0.020
pH at 25°C	7.2 ±0.2

* Formula adjusted for optimum performance and parameters

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Directions: Dissolve 57.22 grams in 1000 ml distilled water, boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens' types analyzed

Pure isolates and soil and water samples etc.

Precautions to be taken

All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 5.72% solution	7.2 ±0.2 at 25 °C
pH	7.00- 7.40
Color and clarity of ready medium	light amber colored slightly opalescent solution with a slight precipitate
Growth Promotion properties	Best at ≤ 100 CFU at 33-37 °C for 36-72 h
Indicative properties	Optimum at ≤ 100 CFU at 33-37 °C for 36-48 h
Negative control	Performed using sterile distilled water

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Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate the media at 25-30°C for 36-72 hours.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Streptomyces lavendulae</i>	8664	50-100	Luxuriant
<i>Actinomyces bovis</i>	13683	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

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