

Actinomyces Broth

Medium used for the maintenance and cultivation of *Actinomyces* spp..

• CONTENTS (Liter)

Heart Muscle, Infusion	2.0 g
Pancreatic Digest of Casein	17.0 g
Yeast Extract	10.0 g
Sodium Chloride	5.0 g
Dipotassium Phosphate	13.0 g
Monopotassium Phosphate	2.0 g
Dextrose	5.0 g
Ammonium Sulfate	1.0 g
L-Cysteine HCl	1.0 g
Soluble Starch	1.0 g
Magnesium Sulfate	0.2 g
Calcium Chloride	0.01 g
Final pH = 6.9 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 57.2 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Dispense in tubes.

• INTERPRETATION

Actinomyces Broth is a medium used for the maintenance or cultivation of *Actinomyces* spp.. Heart muscle, infusion, pancreatic digest of casein, soluble starch, dextrose and yeast extract provide nitrogen, carbon, vitamin s and minerals. Phosphates are the buffering agent. Sodium chloride maintains osmotic balance. L-Cysteine HCl and calcium chloride provide growth factors. Ammonium sulfate provides nitrogen. Magnesium sulfate is a cofactor for many metabolic reactions.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 35 ± 2°C for up to 7 days under anaerobic conditions. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: light beige.

Prepared medium

Appearance: opalescent.

Color: yellow.

Incubation conditions: 35 ± 2°C / up to 7 days under anaerobic conditions

Microorganism	ATCC	Inoculum CFU	Growth
<i>Actinomyces bovis</i>	13683	50-100	good
<i>Actinomyces israelii</i>	10049	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Pine and Watson. 1959. J. Lab. Clin. Med. 54:107.
2. Ajello, Georg, Kaplan and Kaufman. 1963. CDC laboratory manual for medical mycology. PHS Publication No.994. U.S. Government Printing Office, Washington, D.C.

• PACKAGE

Cat. No : MB-A0709 Actinomyces Broth	500 G
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