

40834 Actinomyces Broth, Vegitone (Vegitone Actinomyces Broth)

Actinomyces media are recommended for the cultivation and maintenance of the anaerobic *Actinomyces* species. Media from the Vegitone-line do not contain any animal derived material.

Composition:

Ingredients	Grams/Litre
Vegetable Infusions powder	10.0
Tryptose (vegetable)	10.0
Tryptone (vegetable)	4.0
Yeast extract	5.0
Dextrose	5.0
L-Cysteine hydrochloride	1.0
Starch, soluble	1.0
Sodium chloride	5.0
Monopotassium phosphate	15.0
Ammonium sulphate	1.0
Magnesium sulphate	0.2
Calcium chloride	0.02
Final pH 7.2 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Appearance: Light yellow coloured, homogeneous, free flowing powder.
 Colour and Clarity: Brownish yellow coloured slightly opalescent solution with a slight precipitate forms in tubes.

Directions:

Suspend 57.22 g in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute into tubes or flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation:

Pine and Watson (1) formulated *Actinomyces* maintenance medium. *Actinomyces* Broth is further modified and is recommended for growing and maintaining members of genus *Actinomyces* (2). Vegetable Infusions powder, Tryptose (vegetable), Tryptone (vegetable) and yeast extract contains nitrogenous compounds, sulphur, vitamins and other important growth factors. Starch and dextrose act as sources of carbohydrate. L-Cysteine is a reducing agent and the metallic salts provides essential electrolytes and minerals.

Cultural characteristics after 18-48 hours at 30°C.

Organisms (ATCC)	Growth
<i>Streptomyces achromogenes</i> (12767)	++
<i>Streptomyces albus</i> (3004)	++
<i>Streptomyces lavendulae</i> (8664)	++
<i>Actinomyces israelii</i> (10049)	+++



References:

1. L. Pine, S.J. Watson, J. Lab. Clin. Med., 54(1), 107 (1959)
2. Ajello Georg, Kaplan and Kaufman, CDC Lab Manual Med. Mycology, PHS, Publication No. 994, CDC, Washington D.C. (1963)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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