

41159 Actinomyces Agar, Vagitone (Vagitone Actinomyces Broth)

Actinomyces media are recommended for the cultivation and maintenance of the anaerobic *Actinomyces* species. This medium contains no 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 |
| Agar | 20.0 |
| Final pH 6.9 +/- 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.

Gelling: Firm.

Colour and Clarity: Brownish yellow coloured slightly opalescent gel with a slight precipitate forms in petriplates.

Directions:

Suspend 77.22 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 medium was 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 agents 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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