

Hayflick Medium Complete with Ampicillin

H2486

Storage

- Store at 2-8°C.
- Media should not be used if there aer any signs of deterioration (shrinking, cracking, or discoloration) contamination, or if the expiration date has passed.
- The expiration data applies to the product in is intact packaging when stored as directed.



Contents

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Introduction

Mycoplasma, represents a group of minute bacteria devoid of cell walls belonging to class Mollicutes. These are responsible for causing serious contamination in cell and or tissue cultures used to generate compendial articles. They may also cause contamination of filtered sterlized Soybean Casein Digest Broth. Infection of cells in a culture can affect nearly every pathway of cell metabolism including alteration of the cells phenotypical characterization and normal growth. The presence of mycoplasma species does not always result in turbid growth in cul -tures or visible alteration of the cells.

Hayflick et al have reported complex medias for growth of Mycoplasmas. Testing of mycoplasmas is necessary to assure reliably pure biotech products and allied materials used to generate these products. Hayflick Medium Complete is reco -mmended for general detection of Mycoplasmas in Pharmacopoeias for testing of products for Mycoplasma.

This medium contains Beef heart infusion broth containing beef heart infusion and peptone which provides nitrogen, vitamins, amino acids, and carbon sources. Sodium chloride maintains the osmotic balaces. Many Mycoplasmas require serum for their good growth. Addition of Ampicillin surpress growth of unwanted flora. Added Horse serum provides growth factors including liqid components to My -coplasma. DNA provides growth factors including lipid components to Myco -plasma. Yeast extract serves rich source of Nicotinamide-Adenine Dinucleotide (NAD) required by M.synoviae.

Mycoplasma species are either aerobic or facultative anaerobic but some are microaerophilic. Few are anaerobic saprophytic Mycoplasma which grow best at 22-35°C while pathogenic strains grow at 35°C. Tubes should be incubated in an atmosphere containing 5-10% carbon dioxide and examined after incubation of 48 hours but they should not be discarded as negative until after incubation for three weeks. M.synoviae is not able to grow on Hayflick broth medium be -cause growth depends on NAD.

🐼 Formula

| Ingredients | Percentage |
|------------------------------|------------|
| Pancreatic Digest of Casein | 0.7% |
| Sodium Chloride | 0.5% |
| Yeast Extract | 0.3% |
| Beef Heart Infusion | 0.2% |
| Thalium Acetate | 0.05% |
| Ampicillin | 0.025% |
| DNA | 0.02% |
| Hose Serum, Heat Inactivated | 15% |