

BYE HiVeg™ Agar

MV470

Intended Use:

Recommended for cultivation and routine studies of distribution of Mycoplasmas or Pleuropneumonia like organisms (PPOs) and L-forms of bacteria.

Composition**

Ingredients	g / L
HiVeg™ peptone No. 3	10.000
HiVeg™ special infusion	7.500
HiVeg™ infusion	10.000
Dextrose (Glucose)	2.000
Sodium chloride	5.000
Disodium hydrogen phosphate	2.500
Yeast extract	2.000
Agar	13.000
Final pH (at 25°C)	7.9±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 52.0 grams in 850 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add 150 ml of sterile human or animal blood or serum. Mix gently and pour into sterile Petri plates.

Principle And Interpretation

Mycoplasmas (mollicutes) are the smallest free-living microorganisms (1). Earlier *Mycoplasmataceae* were given the general title of pleuropneumonia like organism (PPO), because of similarities to *Mycoplasma mycoides* (subsp. *mycoides*), the causative agent of bovine pleuropneumonia (2). BYE media are simple media developed for cultivation and routine studies of distribution, habitat and possible pathogenesis of Mycoplasma - Pleuropneumonia like organisms and L-forms of bacteria by Barile, Yaguchi and Eveland (1). These media can be used for isolation of PPOs from urethritis, penile ulcerations and cervical specimens and L-forms of *Corynebacterium*, *Neisseria*, and *Streptococcus*. These are also used for detecting PPO contamination of tissue culture and cell-lines (3) and for membrane filter work (4).

BYE HiVeg™ Agar is prepared by completely replacing animal based peptone with vegetable peptones to avoid BSE/TSE risks associate with animal peptones. BYE Agar contains HiVeg™ special infusion and HiVeg™ infusion along with yeast extract, which provide carbon, nitrogen, vitamins and other growth factors required for the metabolism of Mycoplasma - Pleuropneumonia like organisms. Inoculations are made in duplicates. One set is incubated aerobically while the other anaerobically for 48 hours or more. Usually growth occurs within 3-5 days; however, negative results are reported after 10 days. Anaerobic conditions are most important for the first 3 days while secondary transfers can be incubated aerobically.

Type of specimen

Clinical samples - Swabs of Sputum, Tissue, Bronchial lavage (BAL) fluid, Bronchial washings, Cerebrospinal fluid (CSF)

Specimen Collection and Handling:

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Some organism may show poor growth due to nutritional variation.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

