

**Acetobacter HiVeg™ Agar w/ HiVeg™ Extract No.2****MV346**

Acetobacter HiVeg Agar with HiVeg Extract No.2 is used as a maintenance medium for glucose positive *Acetobacter* species.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg extract No. 2	2.0
HiVeg hydrolysate	5.0
Glucose	20.0
Calcium carbonate	10.0
Agar	20.0

Final pH (at 25°C) 7.4 ± 0.2

\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 57 grams in 1000 ml distilled water. Heat just to boiling. Dispense in test tubes taking care to distribute calcium carbonate evenly. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Shake the tubes, cool quickly and place them in slanting position so as to keep the calcium carbonate in suspension.

**Note :** Due to presence of calcium carbonate, the prepared medium forms opalescent solution with white precipitate

**Principle and Interpretation :**

Acetobacter HiVeg Agar with HiVeg Extract No.2 is prepared by using vegetable peptones in place of animal based peptones that makes the medium free of BSE/TSE risks. Acetobacter HiVeg Agar with HiVeg Extract No.2 is a modification of Acetobacter Agar with Liver Extract. Acetobacter Agar is cited in Manual of Microbiology Methods (1). The medium recommended is essentially adopted by the American Type Culture Collection, meant for maintenance and preservation of *Acetobacter* culture. Necessary carbon and nitrogen sources are provided by the ingredients of the medium viz. glucose as carbon and energy source whereas yeast extract and HiVeg extract No.2 serves as a source of nitrogen and essential growth requirements.

**Quality Control :****Appearance of powder**

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

**Product Profile :**

Vegetable based (Code MV) ©	Animal based (Code M)
<b>MV346</b> HiVeg hydrolysate HiVeg extract No. 2	<b>M346</b> Casein enzymic hydrolysate Liver extract

**Recommended for** : Use as a maintenance medium for glucose positive *Acetobacter* species.

**Reconstitution** : 57.0 g/l

**Quantity on preparation (500g)** : 8.77 L

**pH (25°C)** : 7.4 ± 0.2

**Supplement** : None

**Sterilization** : 121°C / 15 minutes.

**Storage** : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

**Gelling**

Firm, comparable with 2.0% Agar gel.

**Colour and Clarity**

Light amber coloured, clear to slightly opalescent gel forms in tubes.

**Reaction**

Reaction of 5.7% w/v aqueous solution is pH 7.4 ± 0.2 at 25°C.

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Organisms (ATCC)	Growth
<i>Acetobacter aceti</i> (15973)	luxuriant
<i>Acetobacter liquefaciens</i> (14835)	luxuriant

**References :**

1. Manual of Microbiological Methods, in chapter V, Maintenance and Preservation of cultures By Weiss, F.A. 1985, Society of American Bacteriologists, McGraw-Hill Book Company, New York.
2. ATCC Catalogue of Bacteria and Bacteriophages, 1996, 19<sup>th</sup> ed, American Type Culture Collection, Rockville, MD.