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Reference

1. Tatum R. W., Ewing W. H., and Weaver R. E., 1974, Manual of Clinical Microbiology, 2nd Ed., American Society for Microbiology, Washington D.C. Pg. -270
2. Ewing, 1986, Edwards and Ewing's Identification of Enterobacteriaceae, 4th Ed. Elsevier Science Publishing Co., Inc., New York.
3. Talukder K.A., Islam M.A., Dutta D.K., Hasan F., Sada A., Nair G. B., and Sack D.A., 2002, J. Clin. Microbiol., 40:2490

Product Profile

Reconstitution	29.18 g/l
Quantity on Preparation (500g)	17,14 L
pH (25°C)	6.7±0.2
Supplement	None
Sterilization	121°C / 15 minutes
Storage	Dry Medium : Below 30°C Prepared Medium : 2-8° C

Acetobacter Agar (Glucose) / Acetobacter Agar w/ Liver Extract / Acetobacter Agar (Mannitol) M238/M346/M370

Acetobacter Agars are used as a maintenance media for glucose / mannitol positive *Acetobacter* species.

Composition **

Ingredients	M238 Gms/Litre	M346 Gms/Litre	M370 Gms/Litre
Casein enzymic hydrolysate	-	5,000	-
Peptic digest of animal tissue	-	-	3,000
Calcium carbonate	10,000	10,000	-
Liver extract	-	2,000	-
Yeast extract	10,000	-	5,000
Glucose	3,000	20,000	-
Mannitol	-	-	25,000
Agar	15,000	20,000	15,000
Final pH (at 25°C)	7.4±0.2	7.4±0.2	7.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Directions

Suspend 38 grams of M238 or 48 grams of M370 or 57 grams of M346 in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. 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 and place them to cool in a slanted 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 species are aerobic, gram-negative organisms. Under acidic conditions they oxidize ethanol to acetic acid. These are used in making vinegar. Acetic acid bacteria are found in fruits with high carbohydrate concentration, which is selective for yeasts that produce ethanol. This ethanol forms the substrate for acetic acid bacteria and may oxidize ethanol to acetic acid (1). Various synthetic and maintenance media for *Acetobacter* cultures have been cited (2). A

typical maintenance medium is Acetobacter Agar (2) Acetobacter Agar is formulated as per Manual of Microbiological Methods (3) and used for the maintenance of *Acetobacter* species utilizing glucose or mannitol (4).

Peptic digest of animal tissue/ casein enzymic hydrolysate, yeast extract/ liver extract in the medium provides nitrogen, vitamins and minerals necessary to support bacterial growth. Glucose and mannitol acts as energy source. Calcium carbonate acts as a buffer.

Quality Control

Appearance

M238: Cream to yellow homogeneous free flowing powder
M346: Cream to yellow homogeneous free flowing powder
M370: Cream to yellow homogeneous free flowing powder

Gelling

M238: Firm, comparable with 1.5% Agar gel
M346: Firm, comparable with 2.0% Agar gel
M370: Firm, comparable with 1.5% Agar gel

Colour and Clarity

M238: Light amber coloured opalescent gel with heavy white precipitate, forms in tubes as slants.
M346: Light amber coloured opalescent gel with heavy white precipitate, forms in tubes as slants.
M370: Light amber coloured opalescent gel forms in tubes as slants.

Reaction

M238: Reaction of 3.8% w/v aqueous solution at 25°C. pH : 7.4±0.2
M346: Reaction of 5.7% w/v aqueous solution at 25°C. pH : 7.4±0.2
M370: Reaction of 4.8% w/v aqueous solution at 25°C. pH : 7.4±0.2

Cultural Response

M238: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.
M346: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.
M370: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Himedia Laboratory Manual

Terry C. Jones



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