Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Acetate Agar

Product Code: DM 2225

Application: - Acetate Agar is used for the isolation and cultivation of *Leuconostoc* and *Pediococcus* species.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	5.000
Meat extract	5.000
Yeast extract	5.000
Glucose	10.000
Polysorbate 80 (Tween 80)	0.500
Sodium acetate.3H2O	27.220
Agar	20.000
Final pH (at 25°C)	5.4±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

. Acetate agar was formulated by Whittenbury [2] and then modified by Keddie [3].which used for isolation, leuconostoc and pediococcus *Leuconostoc* is a gram-positive and heterofermentative bacteria that is able to produce dextran from sucrose, there by held responsible for causing the stink when creating a sour dough starter. Some species of this micro organisem are also capable of causing human infection [1]. *Pediococcus* bacteria are usually considered contaminants of beer and wine even than some strain of *Pediococcus* produce diacetyl, which gives a buttery or butterscotch aroma to some wines (such as Chardonnay) and a few styles of beer. *Pediococcus* species are often used in silage inoculants Peptic digest of animal tissue, yeast extract, meat extract provide all essential growth nutrients. Polysorbate 80 maintains the surface tension of the medium to the optimal level. Glucose is the energy source. Sodium acetate serves as a sole source of carbon.

Methodology

Suspend 61.9 grams of dehydrated medium in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (12 1°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Quality Control

Physical Appearance

Light yellow to beige homogeneous free flowing powder

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured clear to slightly opalescent gel forms in Petri plates

Reaction

Reaction of 6.19% aqueous solution at 25°C. pH : 5.4±0.2

pH Range:- 5.20-5.60

Cultural Response/Characteristics

DM 2225: Cultural characteristics observed after an incubation at 25-30°C for 18-48 hours.

Organism	Growth
Enterococcus faecalis *ATCC 29212*	None-poor
Leuconostoc mesenteroides *ATCC 12291*	good-luxuriant
Pediococcus acidilactici *ATCC 33314*	good-luxuriant

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.
Prepared Media: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Vagiakou-Voudris E., Mylona-Petropoulou D., Kalogeropoulou E., Chant zis A., Chini S., Tsiodra P., Malamou-Lada E.,J. Infect. Dis. 2002;34(10):766-7
2. Whittenbury R., 1965 b, J. Gen. Microbiol., 40:97.
3. Keddie R. M., 1951, Proceed. Soc. Appl. Bacteriol., 14:157

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