Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Veillonella MiVeg Agar Base

Product Code : VM1416

Application:- Veillonella MiVeg Agar Base with added antibiotic is used for the selective isolation of *Veillonella* species.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	5.0
Yeast extract	3.0
Sodium thioglycollate	0.75
Basic fuchsin	0.002
Agar	15.0
Final pH (at 25°C)	7.5 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Veillonella MiVeg Agar Base is prepared by adding MiVeg hydrolysate in place of Casein enzymic hydrolysate thereby making the medium free from BSE/TSE risks. Veillonella MiVeg Agar Base is the modification of Veillonella Agar Base which was first developed by Rogosa (1) and later on modified by Rogosa et al (2) for selective isolation of *Veillonella*. These species are isolated from the gastrointestinal tract and also from oral cavity. Few *Streptococci* and diphtheroids can also grow on this medium.

MiVeg hydrolysate, yeast extract supplies nitrogenous compounds, vitamin B complex and other growth nutrients. Sodium thioglycollate reduces Eh potential. Addition of antibiotic i.e., Vancomycin to this medium supports the luxuriant growth of *Veillonella* by inhibiting other extraneous organisms.

Methodology

Suspend 24.0 grams of powder media in 1000 ml distilled water containing 21ml of 60%, sodium lactate. Mix thoroughly. If desired, 1 gm of polysorbate 80 may be added. Mix well and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50-55°C and aseptically add Vancomycin to a final concentration of 7.5 mcg/ml medium.

Caution: Basic fuchsin is a potential carcinogen therefore utmost care should be taken to avoid inhalation and contamination of the skin.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

Light pink coloured, opalescent gel forms in petri plates.

Reaction

Reaction of 2.4% w/v aqueous solution is pH 7.5 ± 0.2 at 25°C.

pH Range

7.3-7.7

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35 - 37°C for 24 - 48 hours in an anaerobic atmosphere with added Sodium lactate and Vancomycin.

Organisms (ATCC)	Inoculum (CFU)	Growth
Veillonella criceti (17747)	10^2-10^3	good-luxuriant
Veillonella dispar (17748)	10^2-10^3	good-luxuriant
Veillonella ratti (17746)	10^2-10^3	good-luxuriant
Veillonella rodentium (17743)	10^2-10^3	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 day.

Further Reading

1. Rogosa, 1955, J. Dent. Res., 34:721.
2. Rogosa, 1956, J. Bact., 72:533

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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