

Technical Information

Veillonella Agar Base

Product Code: DM 1416

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

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Yeast extract	3.000
Sodium thioglycollate	0.750
Basic fuchsin	0.002
Agar	15.000
Final pH (at 25°C)	7.5±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Veillonella the gram-negative diplo cocci. These non-motile diplococci are part of the normal flora of the mouth and have been encountered in patients with oral bite wound, head, neck, and miscellaneous soft tissue infections ^(1, 2) They are the anaerobic counterpart of *Neisseria*. The most common species isolated from humans is *Veillonella parvula* which are negative for the routine biochemical test, employed in bacterial identification with the exception of an occasional strain being positive for catalase. Veillonella Agar was first developed by Rogosa ⁽³⁾ and later modified by Rogosa et al ⁽⁴⁾ is used as a selective medium for the isolation of *Veillonella*. *Veillonella* species are isolated from the gastrointestinal

tract and oral cavity specimens. Few streptococci and diphtheroids can also grow on this medium.

Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, vitamin B complex and other growth nutrients. Sodium lactate also serves as a nutritional source. Sodium thioglycollate reduces the Eh potential. Initially streptomycin was added to the medium to suppress the growth of other organisms without hampering the growth of *Veillonella*. However later studies showed that vancomycin is superior to streptomycin as a selective agent ⁽⁵⁾.

Methodology

Suspend 23.75 grams of powder media in 1000 ml distilled water containing 21 ml of 60% sodium lactate. If desired, 1 gm of Tween 80 may be added. Shake well & heat 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 and care should be taken to avoid inhalation of the powdered dye and contamination of the skin.



Dehydrated Culture Media
Bases / Media Supplements

Quality Control

Physical Appearance

Cream to yellow 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 2.37% w/v aqueous solution at 25°C. pH : 7.5±0.2

pH Range:-

7.30-7.70

Cultural Response/Characteristics

DM 1416: Cultural characteristics observed in an anaerobic atmosphere with added 60% v/v Sodium lactate and Vancomycin after an incubation at 35-37°C for 24-48 hours.

Organism

Veillonella criceti ATCC 17747

Veillonella dispar ATCC 17748

Veillonella ratti ATCC 17746

Veillonella rodentium ATCC 17743

Growth

good-luxuriant

good-luxuriant

good-luxuriant

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° in sealable plastic bags for 2-5 days.

Further Reading

1. Summanen P., Baron E. J., Citron D. M., Strong C., Wexler H. M., and Finegold S. M., 1993, Wadsworth Anaerobic Bacteriology Manual, 5th Ed., Star Publishing Co., Belmont, California.
2. Murray P. R., Baron J. H., Pfaller M. A., Tenover J. C. and Tenover F. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
3. Rogosa M., 1955, J. Dent. Res., 34:721.
4. Rogosa M., 1956, J. Bacteriol., 72:533.
5. Rogosa M., Fitzgerald R. J., Mackintosh M. E. and Beaman A. J., 1958, J. Bacteriol. 76:455-456.

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