



Veillonella Agar Base

M416

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

Directions

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

Principle And Interpretation

Veillonella are gram-negative cocci that are the anaerobic counterpart of *Neisseria*. 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). The most common species isolated from humans is *Veillonella parvula*. *Veillonella* species 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). It 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).

Quality Control

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

7.30-7.70

Cultural Response

M416: 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

Growth

Cultural Response

<i>Veillonella criceti</i> ATCC 17747	good-luxuriant
<i>Veillonella dispar</i> ATCC 17748	good-luxuriant
<i>Veillonella ratti</i> ATCC 17746	good-luxuriant
<i>Veillonella rodentium</i> ATCC 17743	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

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., Jorgensen J. H. 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.

Revision : 1 / 2011



Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.