

Veillonella HiVeg™ Agar Base

MV416

Intended Use:

With added antibiotic it is recommended for selective isolation of *Veillonella* species.

Composition**

| Ingredients | g / L |
|-----------------------|---------|
| HiVeg™ 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 purified/distilled water containing 21 ml of 60% sodium lactate. If desired, 1 gm of Polysorbate 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 45-50°C and aseptically add Vancomycin to a final concentration of 7.5 mcg/ml medium. Mix well and pour into sterile Petri plates.

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.

Veillonella HiVeg™ Agar Base is prepared by using vegetable peptones in place of animal based peptones which make the media free of BSE/TSE risks. HiVeg™ 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).

Type of specimen

Please add specimens

Specimen Collection and Handling:

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Further biochemical and serological tests must be carried out for further identification.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

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

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 |
|-----------------------------------------|----------------|
| <i>Veillonella criceti</i> ATCC 17747 | good-luxuriant |
| <i>Veillonela 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 between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

Reference

1. 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.
2. 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.
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.
6. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition
7. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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