

Technical Information

Soyabean MiVeg Medium/with 0.1% Agar

Product Code :VM1323

Application Soyabean MiVeg Medium/with 0.1% Agar is recommended for cultivation of anaerobes from root canals, blood and other specimens. With added carbohydrate it can also be used to study fermentation reaction.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	17.0
Papaic digest of soyabean meal	3.00
Sodium chloride	5.00
Dipotassium phosphate	2.50
Dextrose	2.50
Agar	1.00
Final pH (at 25°C)	7.3 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Soyabean MiVeg Medium/with 0.1% Agar is prepared by using vegetable peptones in place of animal based peptones thereby making the medium BSE/TSE risks free. Soyabean MiVeg Medium with 0.1% Agar is used for culturing organisms especially anaerobes from root canals, blood and other clinical samples. Agar is added to this medium for isolation of anaerobic oral *Vibrios* (1) and also anaerobic organisms causing nasal sinusitis (2).

MiVeg hydrolysate and Papaic digest of soyabean meal provides nitrogenous and carbonaceous compounds, trace minerals etc. Dextrose act as an energy source. Sodium chloride maintains osmotic balance while dipotassium phosphate buffers the medium. Small percentage of agar helps in creating moderately anaerobic condition in the depth of the medium.

Methodology

Suspend 31 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Yellow coloured, clear solution without any precipitate.

Reaction

Reaction of 3.1% w/v aqueous solution is pH 7.3 ± 0.2 at 25°C.

pH Range

7.1 - 7.5

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Staphylococcus epidermidis</i> (12228)	10 ² -10 ³	good-luxuriant
<i>Streptococcus pneumoniae</i> (6303)	10 ² -10 ³	good-luxuriant



Dehydrated Culture Media
Bases / Media Supplements

<i>Streptococcus pyogenes</i> (19615)	10^2 - 10^3	good-luxuriant
<i>Clostridium perfringens</i> (12924)*	10^2 - 10^3	good- luxuriant
<i>Bacteroides fragilis</i> (25285)*	10^2 - 10^3	good-luxuriant
<i>Neisseria meningitidis</i> (13090)	10^2 - 10^3	good

Key: * = Incubated anaerobically

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 day.

Further Reading

1. Mashimo and Ellison, 1959, J. Bact., 78:636.
2. Fredette, Anger and Forget, 1961, Can. Med. Assoc. J., 84:164

Disclaimer :

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