

Technical Information

Soyabean MiVeg Medium

Product Code : VM1322

Application:- Soyabean MiVeg Medium is recommended for cultivation of anaerobes from root canals, blood and other specimens.

Composition

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

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Soyabean MiVeg Medium is prepared by using vegetable peptones in place of animal based peptones thereby making the medium BSE/TSE risks free. Soyabean MiVeg Medium is used as a base for more complex media for the cultivation of various organisms like *Neisseria*, pathogenic *Streptococci* etc. With the addition of carbohydrates (ranging from 0.5% to 1.0%) it can also be used for fermentation studies of fastidious and non-fastidious organisms.

MiVeg hydrolysate and Papaic digest of soyabean meal supplies nitrogenous and carbonaceous compounds, trace minerals etc for the cultivation of wide variety of microorganisms. Sodium chloride maintains osmotic balance while dipotassium phosphate buffers the medium.

Methodology

Suspend 27.5 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 2.75% 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
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	good-luxuriant



Dehydrated Culture Media
Bases / Media Supplements

<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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