

Technical Information

Leptospira MiVeg Medium Base, Korthof, Modified

Product Code : VM1457

Application:- Leptospira MiVeg Medium Base, Korthof Modified is used for the cultivation and maintenance of *Leptospira* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone	0.8
Sodium chloride	1.4
Sodium bicarbonate	0.02
Potassium chloride	0.04
Calcium chloride	0.04
Monopotassium hydrogen phosphate	0.24
Disodium hydrogen phosphate	0.88
Final pH (at 25°C)	7.2 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Leptospira MiVeg Medium Base, Korth of, Modified is prepared by adding vegetables peptones instead of animal based peptone thus making the medium free from BSE/TSE risks. Leptospira MiVeg Medium Base is the modification of Leptospira Medium Base which is devised as described by Korthof (1) for the cultivation and maintenance of *Leptospira* species. MiVeg peptone supplies essential nutrients for the growth of the organisms. Phosphates form buffering system while sodium chloride maintains osmotic equilibrium.

Methodology

(1) Preparation of Base: Suspend 3.42 grams of powder media in 1000 ml distilled water. Mix well and heat if required to dissolve the medium completely. Dispense in 100 ml amounts in flasks. Sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes. Cool to 55°C.

(2) Preparation of Haemoglobin Solution: To the rabbit blood clot, after removing serum, add equal volume of distilled water. Freeze and thaw repeatedly to haemolyse the corpuscles. Sterilize using Seitz or Millipore filtration.

(3) Complete Medium: To 100 ml base, add 8 ml sterile inactivated blood serum and 0.8 ml sterile haemoglobin solution. Mix well. Distribute if desired in 2-3 ml amount in sterile screw capped Bijou bottles/tubes. Test for sterility by incubating at 35-37°C.

Quality Control

Physical Appearance

Yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Colour and Clarity of prepared medium

Yellowish brown coloured, clear to slightly opalescent solution after addition of serum and haemoglobin.

Reaction

Reaction of 0.34% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH Range

7.0 - 7.4



Dehydrated Culture Media
Bases / Media Supplements

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 30°C for 2 - 7 days.

Organisms (ATCC)	Growth
<i>Leptospira interrogans</i> serotype Australis (23605)	luxuriant
<i>Leptospira interrogans</i> serotype Canicola (23470)	luxuriant
<i>Leptospira interrogans</i> serotype Grippotyphosa (23604)	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 day.

Further Reading

1. Korthof G., 1932, Zentralbl. Bakteriologie. Parasitenkunde. Infektionskrankheiten. Hygiene. Abteilung I. Original, 125:429.
2. Rechcigl M. Jr. (Ed.), 1978, Handbook Series in Nutrition and Food, Vol. III, CRC Press.

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