

Trichomonas (CPLM) Medium Base, Modified



Medium is used for the isolation and cultivation of *Trichomonas vaginalis*.

• CONTENTS (Liter)

Nutrient Substrate (Peptones, Liver Extract)	26.0 g
Maltose	1.0 g
L-Cysteine	2.0 g
Ringer Solution ¼ strength	2.53 g
Buffers	0.5 g
Methylene Blue	0.005 g
Agar	1.0 g
Final pH = 6.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 33.04 G of powder in 860 mL of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add 2 vials Trichomonas Selective supplement (MB-T2570) and 100 mL of sterile Horse Serum (MB-H1888, required heat inactivation at 56°C for 30 minutes). Mix well. Pour into tubes.

Trichomonas Selective supplement

1 vial contents (each vial is sufficient for 500mL of medium)

Penicillin	500,000 U
Streptomycin	0.75 g
Amphotericin B	0.002 g

• INTERPRETATION

Trichomonas (CPLM) Medium Base, Modified is a medium used for the isolation and cultivation of *Trichomonas vaginalis*. Peptones and liver extract are the nitrogen and vitamin sources. Maltose is a fermentable carbohydrate. L-Cysteine is a reducing agent. Ringer solution and buffers maintain the osmotic balance and provide the essential electrolytes and minerals. Methylene blue is an oxidation-reduction indicator which becomes blue when oxidized and colorless when reduced. Low concentration of agar interrupts the diffusion of oxygen in the medium. Trichomonas Selective supplement suppresses the growth of bacteria and fungi. Horse serum provides nutrients for the growth of *Trichomonas* spp.

• TECHNIC

Inoculate the specimen of several drops or swab specimen to the medium. Incubate at 35 ± 2°C for up to 5 days. Slightly loosen the caps under aerobic condition or incubate under anaerobic condition. Refer appropriate references for recommended test procedure. After incubation, observe the medium microscopically.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige, may have slight greenish tint

Prepared medium

Appearance: slightly opalescent

Color: light amber with upper green color ring

Incubation conditions: 35 ± 2°C / up to 5 days / loosen the caps under aerobic condition
or incubate under anaerobic condition

Microorganism	ATCC	Growth
<i>Trichomonas vaginalis</i>	30001	good
<i>Candida albicans</i>	10231	partially inhibited
<i>Escherichia coli</i>	25922	partially inhibited

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Johnson G. and Trussell R. E., 1943, Proc. Soc. Exp. Biol., 54:245.
2. Mackie and McCartneys Practical Medical Microbiology, 1989, 13th Ed. , Vol. 2, Churchill Livingstone, London.

• PACKAGE

Cat. No : MB-T2269 Trichomonas (CPLM) Medium Base, Modified	500 G
--	-------