



Trichomonas Broth Base No. 2

M1204

Trichomonas Broth Base No. 2 is recommended for the isolation of *Trichomonas vaginalis* .

Composition**

Ingredients	Gms / Litre
Glucose	22.500
Liver digest	18.000
Casein enzymic hydrolysate	17.000
Sodium chloride	5.000
Papaic digest of soyabean meal	3.000
Dipotassium hydrogen phosphate	2.500
Chloramphenicol	0.125
Calcium pantothenate	0.005
Final pH (at 25°C)	6.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 68.13 grams in 750 ml distilled water. Heat if necessary to dissolve the medium completely. Mix thoroughly. Sterilize by autoclaving at 5 lbs pressure (108°C) for 15 minutes. Cool to 45-50°C. Aseptically add 250 ml of sterile horse serum (RM1239). Mix thoroughly and dispense as desired.

Principle And Interpretation

Trichomonas Broth Base No.2 is used for the isolation of *Trichomonas Vaginalis* (1). Stenton reported that incorporation of liver digest in the medium plays an important role in detection of *Trichomonas vaginalis* (2).

Addition of Horse serum makes the medium highly nutritious got *T. vaginalis* . The medium is equally suitable for the examination of urethral and vaginal swabs and urine specimens. Casein enzymic hydrolysate and papaic digest of soyabean meal and liver digest provide the nitrogenous substances. Glucose acts as the energy source. The selective agent chloramphenicol is inhibitory to gram-positive and gram-negative bacteria but not for *Trichomonas* species. Sodium chloride maintains the osmotic equilibrium of the medium. Dipotassium phosphate buffers the medium. Calcium pantothenate acts as a growth factor. The small amount of agar helps to create anaerobiosis.

Under anaerobic conditions massive inocula are required.

Quality Control

Appearance

Light yellow to light brown homogeneous free flowing powder

Colour and Clarity of prepared medium

Dark amber coloured clear solution in tubes

Reaction

Reaction of 6.81% w/v aqueous solution at 25°C. pH : 6.2±0.2

pH

6.00-6.40

Cultural Response

M1204: Cultural characteristics observed after an incubation at 35-37°C for 3-5 days with added Horse serum (RM1239).

Organism

Growth

Cultural Response

Candida albicans ATCC 10231 good-luxuriant

<i>Escherichia coli</i> ATCC 25922	inhibited
<i>Trichomonas vaginalis</i> ATCC 30001	good-luxuriant

Storage and Shelf Life

Store between 15-25°C in tightly closed container and prepared medium at 2-8°C. Use before expiry date on the label.

Reference

- 1.Ronald M. Atlas : Handbook of Microbiological Media 3rd edition CRC Press.
- 2.Stenton P, 1957, J . Med Lab. Technol, 14:228.

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