



TRICHOMONAS MEDIUM (MODIFIED DIAMOND)

- For in vitro use only -

Catalogue No. TT77

Our Modified Diamond Trichomonas medium is used for the selective detection and cultivation of *Trichomonas* species.

Diamond's medium was developed by Diamond in 1957; the CDC modified the formulation in 1980 by replacing sheep serum with horse serum, increasing the concentration of maltose, cysteine, and ascorbic acid, and adding antibiotics to the medium to suppress the growth of bacteria and fungi. This medium through numerous studies has been shown to be superior for the isolation of *Trichomonas* species.

Peptones and extracts provide nitrogen, vitamins, amino acids, and minerals essential for growth of *Trichomonas*. The presence of agar and cysteine results in reduced oxygen tension which is beneficial for the growth of *Trichomonas*. Amphotericin, gentamicin and vancomycin are selective agents which collectively suppress the growth of a wide range of urogenital flora thereby allowing *Trichomonas* to flourish.

Formula per Litre of Medium

Pancreatic Digest of Casein	20.0 g
Yeast Extract	10.0 g
Maltose	15.0 g
Potassium phosphate dibasic	0.8 g
Potassium phosphate monobasic	0.8 g
Cysteine	1.0 g
Ascorbic acid	0.2 g
Agar	0.5 g
Amphotericin B	10.0 mg
Gentamicin	20.0 mg
Vancomycin	20.0 mg
Horse Serum	100 mL

pH 6.0 ± 0.2

Recommended Procedure

1. Warm medium to 35°C in an incubator prior to inoculation.
2. Inoculate the specimen as soon as possible. If a liquid specimen is received, inoculate several drops into the medium. If the specimen is contained on a swab, swirl the swab in the medium and cut off the protruding top portion of the swab.
3. Cap loosely and incubate the tubes at 35 to 37°C.
4. Examine tubes daily for up to 5 days before discarding.

Interpretation of Results

Cultures should be examined for growth daily for up to 5 days. A drop of the medium from the lower portion of the tube should be examined by wet mount for the presence of motile trophozoites. If the examination under low power magnification results in observing motile trophozoites the test is considered positive for *Trichomonas*. If no growth is observed after 5 days the test can be considered negative and the tubes discarded.

- *Trichomonas vaginalis* does not survive for very long in clinical specimens and therefore should be culture as soon as possible
- Urine specimens should be concentrated by centrifugation and the sediment should be inoculated into the medium and examined microscopically

