# **Trichosel<sup>™</sup> Broth, Modified**

#### **Intended Use**

Trichosel Broth, Modified is used for the isolation and cultivation of *Trichomonas* species.

#### **Summary and Explanation**

Trichosel Broth, Modified is a modification of the Simplified Trypticase<sup>™</sup> Serum (STS) Medium of Kupferberg et al. for the cultivation of *Trichomonas* spp.<sup>1</sup>The classical formula has been modified by the addition of beef extract and horse serum and an increased amount of yeast extract to improve performance. Chloramphenicol, a relatively stable antibiotic, replaces the penicillin and streptomycin recommended for addition to the STS base.

### **Principles of the Procedure**

Trichosel Broth, Modified contains casein peptone, cysteine, beef extract and yeast extract as sources of amino acids, nitrogen, sulfur, carbon, vitamins and trace ingredients. Maltose is an energy source for the metabolism of microorganisms including *Trichomonas* spp. Chloramphenicol is a broad spectrum antibiotic which inhibits a wide range of gram-positive and gram-negative bacteria. Horse serum is added to provide growth factors required by *Trichomonas*.

# **User Quality Control**

#### *Identity Specifications* BBL<sup>™</sup> Trichosel Broth, Modified

Dehydrated Appearance:	Fine, homogeneous, free of extraneous material.
Solution:	23.1 g soluble in 950 mL purified water upon boiling. Solution is light to medium, yellow to tan, with blue-green to green ring at top, hazy.
Prepared Appearance:	Light to medium, yellow to tan, with blue-green to green ring at top, hazy.
Reaction of 23.1 g/950 mL Solution at 25°C:	рН 6.0 ± 0.2

#### Cultural Response BBL<sup>™</sup> Trichosel Broth, Modified

Prepare the medium per label directions. Inoculate with fresh cultures and incubate at  $35 \pm 2^{\circ}$ C for 5 days.

ORGANISM	ATCC™	RECOVERY
Candida albicans	10231	Good
Staphylococcus aureus	25923	Partial to complete inhibition
Trichomonas vaginalis	30001 r	Good; microscopic examination eveals typical morphology and motility

### Formula

#### BBL<sup>™</sup> Trichosel Broth, Modified

Approximate Formula* Per Liter		
Pancreatic Digest of Casein	12.0	g
Beef Extract	2.0	g
Yeast Extract	5.0	g
L-Cysteine HCl	1.0	g
Maltose	2.0	g
Agar	1.0	q
Chloramphenicol	0.1	q
Methylene Blue	3.0	mg
*Adjusted and/or supplemented as required to meet performance criteria.		5

## Directions for Preparation from Dehydrated Product

- 1. Suspend 23.1 g of the powder in 950 mL of purified water. Mix thoroughly.
- 2. Heat with frequent agitation and boil for 1 minute to completely dissolve the powder.
- 3. Autoclave at 118°C for 15 minutes. Immediately tighten caps.
- 4. Cool and aseptically add 5% horse serum.
- 5. Test samples of the finished product for performance using stable, typical control cultures.

## **Procedure**

Inoculate specimens suspected of containing *Trichomonas* organisms into the broth medium using swabs containing the specimen or by alternative methods, as appropriate. Incubate tubes at  $35 \pm 2^{\circ}$ C in an aerobic atmosphere. After 48 hours and 5 days of incubation, prepare a wet mount from the broth and examine microscopically under low power for the presence of flagellate protozoans.

#### **Expected Results**

If growth of trichomonads has occurred, organisms of typical morphology will be seen in the broth medium when an aliquot is examined microscopically using low power magnification.

## Reference

1. Kupferberg, Johnson and Sprince. 1948. Proc. Soc. Exp. Biol. Med. 67:304.

# **Availability**

BBL<sup>™</sup> Trichosel<sup>™</sup> Broth, Modified

Cat. No. 211747 Dehydrated – 500 g

**BBL™ Trichosel™ Broth, Modified, with 5% Horse Serum** Cat. No. 298323 Prepared Tubes – Pkg. of 10\* \*Store at 2-8℃.

