

## Modified TRYPTIC SOY BROTH (mTSB; Catalog# TBS8066-500mL)

*A selective enrichment medium for E. Coli O157:H7*

### DESCRIPTION

Modified tryptone soy broth (mTSB) is recommended as an enrichment medium for the detection of Escherichia coli O157:H7 from food and animal feeding stuff.

A selective, enrichment broth for Escherichia coli O157 in products intended for human consumption or for animal feeding stuff, as described in ISO 16654:2001. Concern regarding E. coli O157:H7 has grown due to the severity of the disease syndromes caused, and the increase in foodborne infection, therefore the need to optimize methods for its efficient isolation has grown. Symptoms start with severe stomach cramps and watery, bloody diarrhea, and a percentage of individuals infected will develop Haemolytic Uraemic Syndrome (HUS) leading to acute renal failure. In a comparison of four different selective broth media, mTSB was the most productive and selective for the isolation of E. coli O157:H7. mTSB is made selective for O157:H7 by including bile salts in the dehydrated medium, and the addition of a novobiocin supplement. The medium conforms to the performance and formulation requirements of ISO 16654:2001.

We offer a variety of microbial cultural mediums for a range of bacterial and fungus culture applications.

### PACK SIZE

1x500 mL/bottle, Store at 2-8°C °C in dark till use.

### Microorganism Tests

Bacteria	Specification
Escherichia coli O157:H7 ATCC 43895	Good Growth
Escherichia coli ATCC 25922	Good Growth
Staphylococcus aureus ATCC 25923	Inhibited
Note: Incubation at 35-37°C for 18 - 24 hours	

### COMPOSITIONS

Ingredients	Concentration (g/L)
Tryptone	17.0
Soy peptone	3.0
NaCl	5.0
K <sub>2</sub> HPO <sub>4</sub>	2.5
D-Glucose (Dextrose)	2.5
Bile Salts Mixture	1.5
Novobiocin	0.02

### RELATED PRODUCTS

MSC Medium (TBS8021)  
 Chondrogenic Differentiation Medium (TBS8062)  
 RPMI-1640 Medium (TBS8063)  
 ESC/iPSC-qualified FBS (TBS8002)  
 Adipocyte Differentiation Cocktail (TBS8017)  
 0.1% Gelatin Solution (TBS8004)  
 1.25M Calcium Chloride (TBS5071)  
 2.5M Calcium Chloride (TBS5072)  
 2x HBS, pH7.05 (TBS5076)  
 Cell Culture Grad Water (TBS5050)  
 LB Medium (TBS8056)  
 SOB Medium (TBS8057)  
 SOC Broth Medium (TBS8058)  
 2xYT Broth Medium (TBS8059)  
 TSB medium (TBS8065)

**Research use only.**