

# Product Name : Selenite Cystine Broth

Medium for selective enrichment of *Salmonella spp.*

## FORMULA (G/L)

Tryptone ..... 5.0  
Lactose ..... 4.0  
Sodium Selenite .....4.0  
Sodium Phosphate .....10.0  
L-Cystine .....0.01  
Final pH = 7.0 ± 0.1 at 25°C.

## DIRECTIONS

Suspend 23.01 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into sterile tubes to a depth of at least 5 cm. If desired heat for 10 minutes in flowing steam. DO NOT AUTOCLAVE. Over heating will destroy the selective properties.

## EXPLANATION

Selenite Cystine Broth is a selective enrichment broth for use in detecting and identifying *Salmonella spp.* in foods, dairy products and other materials of sanitary importance.

## TECHNIC

Since medium is not sterile it should be used the same day as prepared. Allow to cool to room temperature and inoculate as desired. Incubate at 36 ± 1 °C for 12-18 hours. Streak for isolation on differential plating media.

## QUALITY CONTROL

### Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: off-white.

### Prepared medium

Appearance: clear to very slightly opalescent, may have a slight precipitate.

Color: very light amber.

Incubation conditions: 36 ± 1°C / 18-24 hours.

Microorganism	ATCC	Growth	MacConkey Agar
<i>Escherichia coli</i>	25922	poor	pink with bile ppt
<i>Salmonella typhimurium</i>	14028	good	colorless
<i>Shigella sonnei</i>	9290	good	colorless

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## PRECAUTIONS

Sodium selenite is a very toxic compound if inhaled or swallowed, irritating to eyes, respiratory system and skin, dangerous of cumulative effects. Wear suitable protective clothing. Keep container tightly closed.

## STORAGE

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 or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

## REFERENCES

1. Methods of Analysis AOAC, 11th ed., 1980.
2. US Pharmacopeia XX, 1980.
3. Leifson, Am. J. Hyg., 24: 423, 1936.
4. ISO 6785: 2001, IDF 93: 2001. Milk and milk products –Detection of Salmonella spp.

## PACKAGING

Cat. No : MB-S1150 Selenite Cystine Broth	500 G
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