

**MM0046**

## **Selenite Broth Base w/o Sodium Selenite**

### **Use and description:**

For the isolation and enrichment of *Salmonella* species from faeces, urine, water, food samples. Gram-positive bacteria are inhibited by sodium selenite\*. Incubation time is maximum 24 hours as there is an increasing loss of selectivity after this time. Incubation temperature can be varied from 35-43°C depending on decided selectivity.

### **Composition per liter:**

Peptone.....5.0 g  
Lactose.....4.0 g  
Sodium phosphate.....10.0 g

**Final pH of the ready to use medium:** 7.0 ± 0.2

### **Medium preparation:**

Add 19.0 grams of Selenite Broth Base and 4 grams of sodium biselenite in 1 litre of distilled water. Warm it to dissolve them completely. Distribute into test tubes or bottles and sterilise for 5-10 minutes in a boiling water bath, or by free steaming. DO NOT AUTOCLAVE !

### **Quality specification:**

Dehydrated medium: homogeneous, light beige fine powder.  
Ready to use medium: light amber liquid

**remark : sodium hydrogen selenite is very toxic and corrosive agent.**

### **Microbiological response:**

<b>Organism</b>	<b>Result</b>
<i>Escherichia coli</i> ATCC 25922	Little recovery or no increase
<i>Salmonella typhi</i> ATCC 6539	Good growth
<i>Shigella flexneri</i> ATCC 12022	Little recovery or no increase

### **Storage:**

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.

**For references please turn appendix 1.  
For supplement details please turn appendix 2.**