

Use and description:

Organisms which reduce tetrathionate will grow in the medium. Some members of the *Proteus* group will grow on this medium, therefore novobiocin may be added to the medium in a concentration between 4 and 40 mg/l. For enrichment of *Salmonella* spp. from pathological samples dairy and other food products. Lactose fermenting members of the Enterobacteriae group are inhibited. Tetrathionate formed by the interaction of iodine-iodide solution and sodium thiosulfate.

Composition per liter:

Tryptone.....	13.0000 g
Calcium carbonate.....	38.7000 g
Sodium thiosulphate.....	30.5000 g
Sodium Chloride.....	2.6000 g
Bacto bile.....	3.900 g
Brillant green	0.01 g

pH. 8.0 +/- 0.2 at 25C

Medium preparation:

Add 88.7 grams of dehydrated culture medium to 1 liter distilled water until evenly dispersed. Heat with repeated stirring to boiling. Cool to 45°C before adding 20 ml of an iodine-iodide solution (6g iodine + 5g potassium iodide in 20ml of distilled water.) Supplement with 40 mg per liter of Novobiocin
Mix well and dispense into sterile containers

Quality specification:

Dehydrated medium: homogenous, whitish fine powder.
Ready to use medium: light green and opaque broth

Microbiological response:

Organism	Result
<i>Salmonella typhimurium</i> ATCC 14028	Good growth, red colonies w black center
<i>Salmonella enteritidis</i> ATCC 13076	Good growth, red colonies w black center
<i>Escherichia coli</i> ATCC 25922	Partially inhibited, yellow colonies
<i>Staphylococcus aureus</i> ATCC 25923	Inhibited

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.