

TETRATHIONATE BROTH BASE, MULLER-KAUFFMANN

A selective medium for the enrichment of *Salmonella* spp. besides inhibition of *Proteus* spp.

| Dehydrated media | |
|----------------------------------|---------------------------------|
| Code number: | 500 g: MTB20500, 5 kg: MTB25000 |
| Colour: | Yellowish |
| Appearance: | Homogeneous hygroscopic powder |
| pH before sterilization (25 °C): | 7,4 - 7,8 |

Direction: Suspend **41 g** in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Cool to 50 °C and add aseptically the contents of **one vial of Tetrathionate Iodine-Iodide Selective Supplement (TTS80010)** reconstituted with 10 ml of sterile distilled water. Mix well and dispense aseptically into sterile test tubes.

Warning!

The medium is heat sensitive.

Do not heat after addition of the supplement.

It is recommended to use the complete medium on the day of preparation.

| Prepared media | |
|-----------------------|------------------------------------|
| Bottled media bases: | 100 ml: MTB30100, 500 ml: MTB30500 |
| Tubed media bases: | 150 x 15 mm: MTB40010 (10 ml) |
| Colour: | Greenish (white sediment) |
| pH (25 °C): | 7,5 - 7,7 |

Direction: Supplement the bottled or tubed media bases according to the direction of the dehydrated media.

FORMULA in g/l

| | |
|----------------------|-------|
| Peptones | 7,00 |
| Bacteriological bile | 4,80 |
| Sodium thiosulphate | 40,70 |
| Calcium carbonate | 25,00 |
| Sodium chloride | 4,50 |
| Brilliant green | 0,01 |

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media bases protected from light at room temperature. Store the ready to use tubed media protected from light at 2-8 °C, but no longer than 24 hours. Use before the expiry date on the label.

Quality control:

| Test strains | Incubation temp: 37 °C | Growth | Incubation time: 24 h |
|--|------------------------|-----------|-----------------------|
| <i>Salmonella typhimurium</i> ATCC 14028 | | Good | |
| <i>Escherichia coli</i> ATCC 25922 | | Inhibited | |
| <i>Proteus mirabilis</i> ATCC 29906 | | Inhibited | |

References: Muller (1923) C. R. Soc. Biol. 89: 434.
Kauffmann (1930) Zbl. Bakt. I. Orig. 119: 148.

In vitro diagnostic – for professional use only!