

TETRATHIONATE BROTH BASE, MULLER-KAUFFMANN (MKTTn)

A selective medium for the enrichment of *Salmonella* spp. according to ISO 6579 and ISO 19250.

Dehydrated media	
Code number:	500 g: TMK20500, 5 kg: TMK25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before sterilization (25 °C):	7,8 – 8,2

Direction: Suspend **45 g** in 490 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, ISO (TTI80010)** 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: TMK30100, 500 ml: TMK30500
Tubed media bases:	150 x 15 mm: TMK40010 (10ml)
Colour:	Greenish (white sediment)
pH (25 °C):	7,9 – 8,1

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

FORMULA in g/l

Casein peptone	8,6000
Meat extract	4,3000
Ox bile	4,7800
Calcium carbonate	38,7000
Sodium thiosulphate anhydrous (Equivalent to 47,8g of sodium thiosulphate x 5 H ₂ O)	30,9700
Sodium chloride	2,6000
Novobiocin	0,0400
Brilliant green	0,0096

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 2-8 °C. 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: ISO 6579-1:2017; ISO 19250:2013

In vitro diagnostic – for professional use only!