# Tetrathionate Broth (Base) acc. to Muller-Kauffmann

TN1187 500 g
TN1187-01 5 kg

## Intended use
Used for the selective enrichment of salmonellae from meat, meat products and other foodstuffs.

## Form
Powder

## Colour
Bright beige

## Storage
Dry, tightly closed, at 10...30 °C.

## Shelf life
3 years

## Typical composition

| Component | g/l |
|---|---|
| Casein peptone | 8.6 |
| Meat extract | 4.3 |
| Ox bile | 4.78 |
| Calcium carbonate | 38.7 |
| Sodium thiosulfate | 30.45 |
| Sodium chloride | 2.6 |
| Brilliant green | 0.0096 |

## Directions
Suspend 89.4 g in 1 litre distilled water, bring briefly to the boil and allow to cool down again. This will leave a sediment of calcium carbonate. Do not autoclave! Before use, add per litre 20 ml iodine / potassium iodide solution (5 g potassium iodide, 4 g iodine, 20 ml distilled water) and 0.04 g Novobiocin sodium salt (dissolved in 5 ml distilled water) and dispense into test tubes. Take care to suspend any precipitate evenly. Avoid further heating.

## Final pH at 25 °C
8.0 ± 0.2

## Microbiological quality control
Incubation of the Tetrathionate Broth (Base) acc. to Muller-Kauffmann: aerobically, 24 ± 3 h, at 37 ± 1°C
Incubation of the smears on XLD und TSA: aerobically, 24 ± 3 h, at 37 ± 1°C

| Test strain | Inoculum CFU / 10 ml* | Growth on XLD Agar |
|---|---|---|
| *Salmonella* Typhimurium ATCC 13311 WDCM 00121 | ≤ 100 | > 10 CFU with black center; culture medium unchanged or slightly reddish |
| *Salmonella* Abony NCTC 6017 WDCM 00029 | ≤ 100 | > 10 CFU with black center; culture medium unchanged or slightly reddish |
| *Salmonella* Enteritidis ATCC 13076 WDCM 00030 | ≤ 100 | |
| *Escherichia coli* ATCC 8739 WDCM 00012 | ≥ 1000 | > 10 CFU with black center; culture medium unchanged or slightly reddish |
| *Pseudomonas aeruginosa* ATCC 27853 WDCM 00025 | ≥ 1000 | |


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| Test strain | Inoculum CFU / 10 ml* | Growth on XLD Agar |
|---|---|---|
| *Salmonella* Typhimurium<br>ATCC 14028<br>WDCM 00031 | ≤ 100 | > 10 CFU with black center;<br>culture medium unchanged or slightly reddish |
| *Escherichia coli*<br>ATCC 25922<br>WDCM 00013 | ≥ 1000 | |
| *Pseudomonas aeruginosa*<br>ATCC 27853<br>WDCM 00025 | ≥ 1000 | |

| Test strain | Inoculum CFU / 10 ml* | Growth on TSA |
|---|---|---|
| *Escherichia coli*<br>ATCC 8739<br>WDCM 00012 | ≥ $10^4$ | ≤ 100 CFU |
| *Escherichia coli*<br>ATCC 25922<br>WDCM 00013 | ≥ $10^4$ | ≤ 100 CFU |
| *Enterococcus faecalis*<br>ATCC 19433<br>WDCM 00009 | ≥ $10^4$ | ≤ 100 CFU |
| *Enterococcus faecalis*<br>ATCC 29212<br>WDCM 00087 | ≥ $10^4$ | ≤ 100 CFU |

*) Reference medium used: TSA


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