

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

TN 1187 500 g



### 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...25 °C.

### Shelf life

3 years

### Typical composition

Component	g/l
Casein peptone	10
Meat extract	5
Ox bile	5
Calcium carbonate	45
Sodium thiosulfate	31.85
Sodium chloride	3
Brilliant green	0.01

### Directions

Suspend 99.9 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 20 ml iodine / potassium iodide solution (5 g potassium iodide, 4 g iodine, 20 ml distilled water) per litre and dispense into test tubes. Take care to suspend any precipitate evenly. Avoid further heating.

### Final pH at 25 °C

7.6 ± 0.2

### Microbiological quality control

Incubate Tetrathionate Broth (Base) acc. to Muller-Kauffmann aerobically for 18-48 hours at 36 ± 1 °C.

Inoculate smears on blood agar aerobically for 18-22 hours at 36 ± 1 °C.

Test strain	No.	CFU/ 10 ml	Smear (10 µl) Tetrathionate Broth on blood agar
<i>Salmonella</i> Typhimurium	ATCC 14028	10-100	>10 colonies per tube
<i>Salmonella</i> Enteritidis	ATCC 13076	10-100	>10 colonies per tube
<i>Salmonella</i> Dublin	clinical isolate	10-100	>10 colonies per tube
<i>Salmonella</i> Choleraesuis	clinical isolate	10-100	>10 colonies per tube
<i>Salmonella</i> Typhisuis	clinical isolate	10-100	>10 colonies per tube
<i>Escherichia coli</i>	ATCC 25922	100-1000	inhibited

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