

PRODUCT INFORMATION

Tetrathionate Broth Base

Cat. No. T20-104

DESCRIPTION

Tetrathionate Broth Base, otherwise known as TT Broth, is used with an iodine-iodide solution for the cultivation of *Salmonella* spp. from clinical specimens, foods and other materials of sanitary importance.

FORMULA (g/L)

Enzymatic Digest of Casein	2.5 g	Peptic Digest of Animal Tissue	2.5 g
Calcium Carbonate	10.0 g	Sodium Thiosulfate	30.0 g
Bile Salts	1.0 g		

Final pH: 8.4 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 46 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boiling. Cool to 50.0 °C before adding 20ml of an iodine-iodide solution (6g iodine + 5g potassium iodide in 20ml of purified water). DO NOT REHEAT AND DO NOT AUTOCLAVE. Use immediately.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and white.
2. Visually the prepared medium is milky and opaque.
3. Recovery on MacConkey Agar after enrichment in Tetrathionate Broth for 18-24 hours at 35°C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 25922	Inhibition
<i>Salmonella enteritidis</i> ATCC 13076	Good Growth
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth
<i>Shigella flexneri</i> ATCC 12022	Inhibition



STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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