



Actero™ Tetrathionate Broth Product Information

Catalogue No.	Description
FCM- 109	Actero™ Tetrathionate Base Broth (500 G)
FCM- 108	Actero™ Tetrathionate Base Broth (2 KG)
FCM- 107	Actero™ Tetrathionate Base Broth (10 KG)

INTENDED USE

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* per Liter:

Pancreatic Digest of Casein..... 2.5g
Peptic Digest of Animal Tissue.....2.5g
Calcium Carbonate.....10.g
Sodium Thiosulfate30.0g
Bile Salts1.0g

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 white 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	Growth
<i>Salmonella typhimurium</i> ATCC® 14028	Growth
<i>Shigella flexneri</i> ATCC® 12022	Inhibition

STORAGE INSTRUCTIONS:

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.

