



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### TETRATHIONATE BRILLIANT GREEN BILE BROTH

Product Number **T 0184**

#### Product Description

Tetrathionate Brilliant Green Bile Broth is used for isolation and identification of *Salmonellae* from food and water. The peptic digest of animal tissue provides nitrogenous nutrients to the *Salmonellae*. Brilliant green and ox-bile inhibit both gram-positive, as well as some gram-negative organisms. Potassium tetrathionate inhibits the normal flora of fecal specimens. Sodium chloride helps in maintaining osmotic equilibrium.

#### Components

Item	g/L
Peptic Digest of Animal Tissue	8.60
Ox Bile	8.00
Sodium Chloride	6.40
Calcium Carbonate	20.00
Potassium Tetrathionate	20.00
Brilliant Green	0.07

Final pH (at 25 °C)  $7.0 \pm 0.2$

#### Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

#### Preparation Instructions

Suspend 63 grams of Tetrathionate Brilliant Green Bile Broth in 1000 mls of distilled water. Heat just to boiling. Do not autoclave or reheat. Dispense as desired.

#### Storage

Store the dehydrated medium at 24 °C and the prepared medium at 2-8 °C.

#### Product Profile

Appearance	Beige colored, homogeneous, free flowing powder.
Color and Clarity	Bluish green colored, opalescent solution with a white precipitate.

Cultural Response	Cultural characteristics are observed after 18-24 hours at 35-37 °C. After incubation, streak onto MacConkey Agar (M 7408).
-------------------	---

Organism	(ATCC)	Growth (on MacConkey Agar)
<i>Salmonella typhimurium</i>	(14028)	luxuriant
<i>Salmonella enteritidis</i>	(13076)	luxuriant
<i>Escherichia coli</i>	(25922)	fair
<i>Staphylococcus aureus</i>	(25923)	inhibited

#### References

1. Indian Pharmacopoeia, (1996). Vol. II. Controller of Publications. Government of India. Ministry of Health and Family Welfare. New Delhi, India.
2. MacFaddin, J., (1985). Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol.1. Williams and Wilkins. Baltimore, Maryland.
3. American Type Culture Collection, Manassas, Va., U.S.A.

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.