



Product Information

TERGITOL-7 AGAR

Product Number **T1813**

Product Description

Tergitol-7 Agar is recommended as a selective medium for the enumeration of coliform organisms. Tergitol 7 Agar was originally designed by Chapman and later modified by incorporating Triphenyl Tetrazolium Chloride (TTC) into the medium. The medium is selective and differential. It is used for the detection and enumeration of coliform organisms. Pollard has reported the selective bactericidal property of sodium heptadecyl sulphate (Tergitol-7). Kulp corroborated the use of Tergitol-7 agar with TTC in routine analysis of water and Mossel used this medium for the examination of food materials.

Components

Item	g/L
Proteose Peptone	5.00
Yeast Extract	3.00
Lactose	10.00
Sodium Heptadecyl Sulfate	0.10
BromoThymol Blue	0.025
Agar	15.00

Final pH (at 25 °C) 6.9 ± 0.2

Precautions and Disclaimer

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

Preparation Instructions

Suspend 33.13 grams of Tergitol-7 Agar in 1000 ml of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 minutes. Cool to 45-50 °C. Aseptically add 3 ml of a 1% solution of 2,3,5-Triphenyl Tetrazolium Chloride (TTC), if desired.

Storage

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

Product Profile

Appearance	Yellow color, homogenous, free flowing powder.
Gelling	Firm.
Color and Clarity	Green color, clear to slightly opalescent solution gel forms in tubes or petri plates.
Cultural Response	Cultural characteristics are observed after 18-48 hours at 35 °C.

Organisms	(ATCC)	Growth	Color
<i>Enterobacter aerogenes</i>	(13048)	luxuriant	yellow
<i>Escherichia coli</i>	(25922)	luxuriant	yellow
<i>Salmonella typhimurium</i>	(14028)	luxuriant	blue
<i>Shigella flexneri</i>	(12022)	luxuriant	blue
<i>Staphylococcus aureus</i>	(25923)	inhibited	----

References

1. Chapman, G. H., J. Bact., **53**, 504 (1947).
2. Pollard, A.L., Science, **103**, 758 (1946).
3. Mossel, D.A.A., J. Appl. Bact., **25**, 20 (1962).
4. American Type Culture Collection, Manassas, Va., U.S.A.

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