

TM 1823 – NUTRIENT BROTH (AOAC)

INTENDED USE

For testing disinfectants in accordance with AOAC, 2000 (under Disinfectants Subchapter 1, Phenol coefficient methods).

PRODUCT SUMMARY AND EXPLANATION

Nutrient broth AOAC is an equivalent medium recommended by AOAC for testing disinfectants i.e. phenol against *Salmonella Typhi*. If colorimetric method is used, adjust broth to give dark green with bromothymol blue. The recommended test organism used to study phenol coefficient is *S. Typhi* ATCC 6539. The stock culture which is maintained on nutrient agar slants is inoculated in this medium and consecutive transfers are made.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Beef extract	5.000
Sodium chloride	5.000

PRINCIPLE

The medium consists of Peptic digest of animal tissue and beef extract that provides necessary nutrient sources for growth of *Salmonella*. Sodium chloride helps to maintain osmotic balance.

INSTRUCTION FOR USE

- Dissolve 20.0 grams in 1000 ml purified/distilled water.
- Heat, if necessary, to dissolve the medium completely.
- Dispense 10 ml portions in 20 x 150 mm test tubes and sterilize by autoclaving at 15 psi pressure (121°C) for 20 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light amber coloured, clear solution in tubes.

pH (at 25°C) : 6.8 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Salmonella Typhi</i>	6539	50-100	Luxuriant	35-37°C	18-48 Hours

<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	35-37°C	18-48 Hours
------------------------------	-------	--------	-----------	---------	-------------

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Official Methods of Analysis AOAC International, 2000 17th edition, Volume 1. Edited by Dr. Horwitz, W. Published by AOAC International, USA. Chapter 6. Disinfectants Subchapter 1. Phenol coefficient methods AOAC official methods 955.1.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019