

TM 2344 - STANDARD RIDEAL WALKER BROTH

INTENDED USE

Recommended for determination of phenol coefficient of disinfectants using Salmonella Typhi as a test organism.

PRODUCT SUMMARY AND EXPLANATION

Rideal and Walker developed phenol coefficient test in 1903 for determining the germicidal efficiency of disinfectants. In addition to being a satisfactory index of the germicidal value of phenol like disinfectants, the phenol coefficient is used as basis for determining the dilutions, which may safely be employed in practice. The phenol coefficient of each disinfectant was first determined by the Bureau of Indian Standards, IS: 1061:2017. Culture Medium for RWC is used for testing disinfectants and especially for determining phenol coefficient of disinfectants using Salmonella Typhi.

COMPOSITION

Ingredients	Gms / Ltr	
Meat extract	20.000	
Sodium chloride	10.000	

PRINCIPLE

The medium contains ingredients like Meats extract which provide necessary nutrients to the growth of Salmonella Typhi when used as test organism. Presence of sodium chloride balances the osmotic equilibrium.

INSTRUCTION FOR USE

- Dissolve 30.0 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense in sterile test tubes or flasks as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder. Appearance of prepared medium : Yellow coloured, clear solution without any precipitate.

pH (at 25°C) : 7.4±0.1

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Salmonella Typhi	6539	50-100	Luxuriant	35-37°C	18-24 Hours

PACKAGING:

In pack size of 100 gm and 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. Bureau of Indian Standards, IS: 1061:2017.
- 2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- 3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
- 4. Rideal S. and Walker J. T. A., 1903, Examination of disinfectants, J. San. Inst., 24, 424-441



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. *For Lab Use Only

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