

## Technical Information

### Culture Medium for RWC (Disinfectant Test Broth)(RWC Medium)

#### Product Code: DM 1500

**Application:** Culture Medium For RWC is used for determination of phenol coefficient of disinfectants using *Salmonella Typhi* as a test organism.

#### Composition\*\*

Ingredients	Gms / Litre
Beef extract	20.000
Peptic digest of animal tissue	20.000
Sodium chloride	10.000
Final pH ( at 25°C)	7.5±0.2

\*\*Formula adjusted, standardized to suit performance parameters

#### Principle & Interpretation

Rideal and Walker developed phenol coefficient test in 1903 for determining the germicidal efficiency of disinfectants <sup>(1)</sup>. The phenol coefficient of each disinfectant was first determined by the Food and Drug Administration method, 1931 <sup>(2)</sup>. Since then, there is no other standard method for testing disinfectants under practical conditions. Culture Medium for RWC is used for testing disinfectants and especially for determining phenol coefficient of disinfectants using *Salmonella Typhi*. 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 medium contains ingredients like beef extract and peptic digest of animal tissue, which provide necessary nutrients to the growth of *Salmonella Typhi* when used as test organism. Presence of sodium chloride balances the osmotic equilibrium.

#### Methodology

Suspend 50 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Dispense in sterile test tubes.

#### Quality Control

##### Physical Appearance

Cream to yellow homogeneous free flowing powder

##### Colour and Clarity of prepared medium

Yellow coloured, clear solution without any precipitate.

##### Reaction

Reaction of 5.0% w/v aqueous solution at 25°C. pH : 7.5±0.2

##### pH Range 7.30-7.70

##### Cultural Response/Characteristics

DM 1500: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<i>Salmonella Typhi</i> ATCC 6539	50-100	luxuriant



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8<sup>0</sup> in sealable plastic bags for 2-5 days.

## Further Reading

1. Rideal S. and Walker J. T. A., 1903, Examination of disinfectants, J . San. Inst., 24, 424-441
2. United States of Food and Drug Administration Methods for Testing Antiseptics and Disinfectants, Circular No.198, December , 1931.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.

