CM 20522 – RWC MEDIUM (CULTURE MEDIUM FOR RWC)

INTENDED USE

For determination of phenol coefficients of disinfectants using Salmonella Typhi as a test organism.

PRODUCT SUMMARY AND EXPLANATION

Ridealand 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 Food and Drug Administration method, 1931. Since then, there is no 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.

COMPOSITION

Ingredients	Gms / Ltr
Beef extract	20.000
Peptic digest of animal tissue	20.000
Sodium chloride	10.000

PRINCIPLE

Thismedium contains ingredients like beef extract and peptic digest of animal tissue, which provide necessary nutrients tothegrowthofSalmonella Typhi when used as test organism. Presence of sodium chloride balances the osmotic equilibrium.

INSTRUCTION FOR USE

Dissolve 50 grams in 1000 ml purified/distilledwater.
Heat if necessary to dissolve themediumcompletely.
Sterilize by autoclaving at 15 psipressure(121°C)for15minutes.
Dispense into sterile test tubes.

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)	: 7.5 ± 0.2

INTERPRETATION

Culturalcharacteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period

Salmonella Typhi	6539	50-100	Luxuriant	35-37°C	18-24 Hours

PACKAGING:

Inpacksizeof100 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.

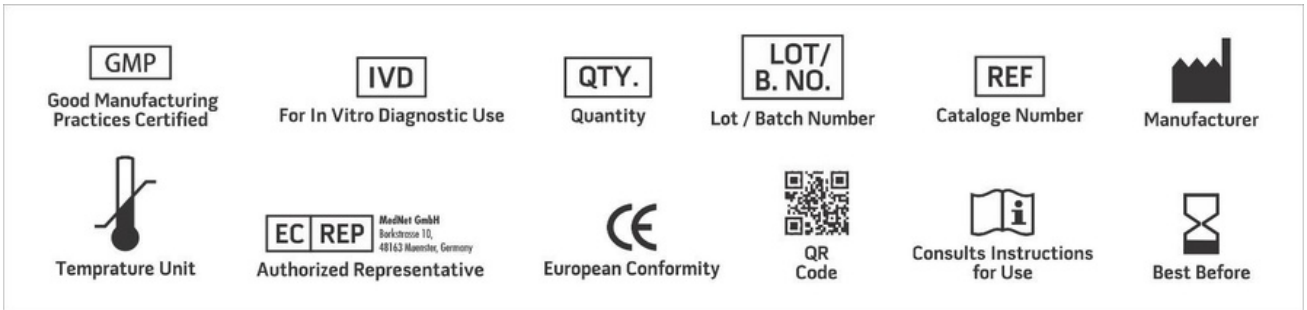
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

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

REFERENCES

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.



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

*For LabUse Only