

Product Name : MR Test

Methyl-Red solution for Methyl-Red test.

CONTENT OF THE PACKAGES

Methyl-Red Reagent 5 x 10 mL
1 Instruction sheet

INTERPETATION

MR Test (MB-MR-100) is a kit containing the reagents for the performance of Methyl-Red test for the detection of microorganisms which ferment dextrose. Methyl-Red test is used to identify enteric bacteria which ferment dextrose into high level acids. All enterics initially produce pyruvic acid from dextrose metabolism. Some enteric subsequently use the mixed acid pathway to metabolize pyruvic acid to other acids (lactic, acetic and formic acid). These bacteria are called methyl-red positive (red coloration). Other enterics subsequently use the buthylene glycol pathway to metabolize pyruvic acid to neutral end-products (acetoin, butanediol). These bacteria are called methyl-red negative (yellow coloration).

PROCEDURE

1. MR test is performed on 48-72 hours incubation cultures prepared dissolving a pure culture in a MR-VP Broth (MB-M1032) tube, suitably prepared.
2. Add 5 drops of Methyl-Red reagent to 5 mL of culture broth.
3. A positive response is given by the development of a red coloring immediately from the addition of the reagents.

INTERPRETATION OF THE RESULTS

Interpret the results according to the table:

Color of the medium	MR Test
Red color	Positive
Yellow color	Negative

QUALITY CONTROL FOR USE

Each batch of MR Test is submitted to the quality control using the following microorganisms :

Microorganism	MR Test
<i>Escherichia coli</i> ATCC 25922	+
<i>Krebsiella pneumoniae</i> ATCC 13883	-

Product Name : MR Test

STORE

Keep MR Test at 2-6°C in their original packaging protected from sunlight. Keep them away from sources of heat and avoid excessive temperature fluctuations. In these conditions, MR Test are valid until the expiry date shown on the label. Do not use them beyond expiry date. Dispose of them if they show signs of deterioration.

REFERENCES

1. Barn, M.M. (1986). J. Pathot. Bacteriol. , 42 : 441.
2. Edwards, P.R., and V.H. Ewing (1965). Identification of *Enterobacteriaceae*.

PACKAGE

Cat. No : MB-MR-100 MR Test	5 × 10 mL
--------------------------------	-----------