

Product: Methyl Red Solution

Catalog Number: iR94003

CAS Number: 493-52-7

Date of Release:

Lot Number:

Molecular Weight: 269.30

Expiration Date:

Application:

Methyl red reagent is a pH indicator with a range between 6.0(yellow) and 4.4(red). It is used in IMViC test for detection of acid production from glucose fermentation.

Composition:

Methyl Red 0.002 g

Ethanol 95% 6.0 ml

Distilled Water 4.0 ml

Directions:

Inoculate in MR-VP Medium and incubate at 30°C for 3-5 days. Take 5 ml of culture and add about 5-6 drops of the Methyl Red Solution. Incubate 24-48 hours at 37°C and observe the color of the medium - if the pH falls below 4.4 the indicator change to red. In case the result is doubt us the assay must be repeated incubating at 30°C for 5 days.

Quality control:

Appearance: Pinkish red solution

Clarity: Clear solution without any particles

Reaction: Red at pH 4.4 and Yellow at pH 6.2 at 25 °C

Cultural Response: Cultural response is observed after 18-24 hours at 37°C in MR-VP medium.

Methyl Red test is performed by using Methyl red indicator.

Microorganism (ATCC)	Growth	MR Test
<i>E. aerogenes (13048)</i>	Very Good	Negative (Yellow)
<i>E. coli (25922)</i>	Very Good	Positive (Red)
<i>K. pneumoniae (13883)</i>	Very Good	Negative (Yellow)

*ATCC is a registered trade mark of the American Type Culture Collection.

QC Department

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