

## 08714 Methyl Red Solution

Some bacteria utilize glucose to form large amounts of acid with the result that the pH value of the medium falls distinct. Other species produce no or less free acid. This difference can be visualized by using methyl red.

### Composition:

Methyl red 0.1 g  
Ethanol 95% 300 ml  
Distilled water 200 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 changes to red. In case the result is doubtful the assay must be repeated incubating at 30°C for 5 days.

| Test Organisms (ATCC)        | Growth    | MR Test    |
|------------------------------|-----------|------------|
| <i>E. aerogenes</i> (13048)  | luxuriant | - (yellow) |
| <i>E. coli</i> (25922)       | luxuriant | + (red)    |
| <i>K. pneumoniae</i> (13883) | luxuriant | - (yellow) |

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

