



## O-Toluidine Reagent (For Glucose estimation)

R022

It is used for estimation of chlorine from water.

### Composition\*\*

#### Ingredients

O-Toluidine	1.0gm
Hydrochloric acid	100.0ml
Distilled water	899.0ml

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

### Directions

- 1) Add 1ml of O-Toluidine reagent to 100ml of the sample and mix thoroughly.
- 2) Allow the sample to stay in dark for 5-15 minutes for the colour to develop if the sample is free of chloramine and nitrite and iron are each less than 0.3 ppm. If chloramine is present, allow it to stand for full 15 minutes.
- 3) If the sample is highly alkaline, it may give blue-green colour instead of yellow. Add 1ml of 1:4 hydrochloric acid to reduce the pH to 4. or less.
- 4) Compare the colour produced with that of standards from of standard colour comparison chart.
- 5) Match the correct colour and report as ppm of chloride.

### Principle And Interpretation

A solution of O-Toluidine in hydrochloric acid react with active chlorine present in water to form a yellow product. This test is applicable to water that have been treated with chlorine or hypochlorite such as potable water, swimming pools or condenser water where the residual (free) chlorine range between 0-2 ppm. At a pH less than 4, chlorine develops a colour with O-Toluidine reagent, varying from pale yellow at low concentration to dark yellow at higher concentration.

### Quality Control

#### Appearance

Colourless clear solution.

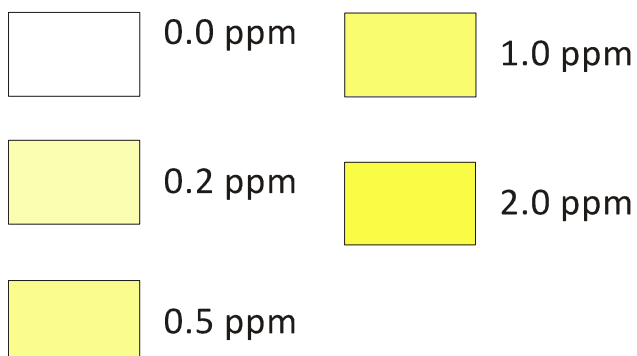
#### Clarity

Clear without any precipitate.

#### Chlorine estimation

Residual (Free) Chlorine (as ppm) is obtained by comparing the colour produced with that of the standard colour comparison chart.

Colour chart for Free chlorine content (by O-Toluidine method 0-2 ppm)



## Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

## Reference

1) Kuffmann F.and Moeller U.,1995,Acta Pathol .Microbiol. Scand;36:173

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### Disclaimer :

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