

CHLORINE HR

TEST FOR HIGH LEVELS OF CHLORINE IN DISINFECTING AND STERILISING SOLUTIONS

Photometer Method

**AUTOMATIC
WAVELENGTH
SELECTION**

0 – 250 mg/l

Chlorine and chlorine release compounds are widely used for disinfection or sterilisation of water distribution systems and pipe work, plant and equipment in food processing and pharmaceutical factories, and similar applications. The chlorine levels used in these applications are higher than those normally applied for the simple disinfection of water. Accurate measurement of the chlorine level is necessary to ensure it is sufficient for the intended use. The Palintest Chlorine HR test provides a simple means of measuring the total chlorine over the range 0 - 250 mg/l.

Method

The Palintest Chlorine HR test is based on an iodine release method. Chlorine reacts with potassium iodide in acid solution to release iodine which is brown in colour. The reagents for the test are provided in the form of two tablets for maximum convenience and simplicity of use.

The intensity of the colour produced is proportional to the chlorine concentration and is measured using a Palintest Photometer.

Reagents and Equipment

Palintest Acidifying GP Tablets
Palintest Chlorine HR Tablets
Palintest Auto Wavelength Photometer
Round Test Tubes, 10 ml glass (PT 595)

Test Procedure

- 1 Fill test tube with sample to the 10 ml mark.
- 2 Add one Acidifying GP tablet and one Chlorine HR tablet. Crush tablets and mix to dissolve. Allow any undissolved particles to settle.
- 3 Select Phot 9 on Photometer.
- 4 Take Photometer reading in usual manner (see Photometer instructions).
- 5 The result is displayed as mg/l Cl.

Note

For precise determination of lower levels of chlorine, up to 5 mg/l, the Palintest Chlorine (DPD) method should be used.