

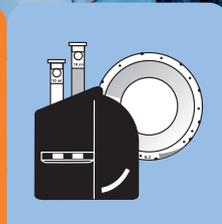
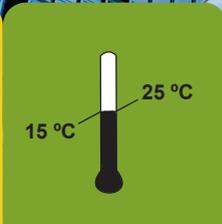
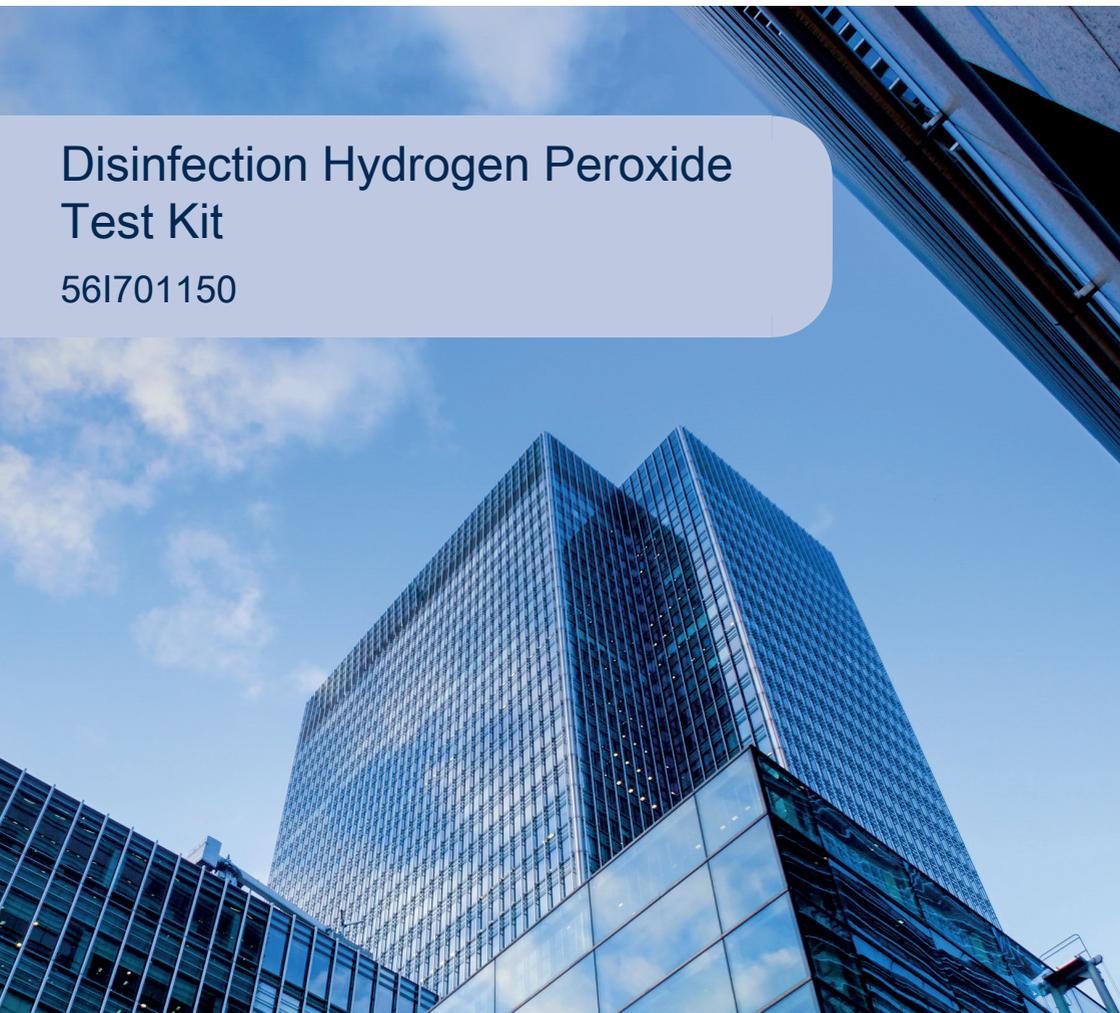
Lovibond® Water Testing

Tintometer® Group



Disinfection Hydrogen Peroxide Test Kit

561701150



Disinfection Hydrogen Peroxide Test Kit

Disinfection is the process of adding a biocide to water to prevent the spread of infection and disease (including Legionnaires' Disease). Disinfected water systems require careful monitoring to ensure the correct conditions are achieved and maintained during the disinfection process. Failure to achieve the correct hydrogen peroxide levels can lead to unsuccessful disinfections while elevated levels can lead to potentially corrosive conditions.

This hydrogen peroxide test kit has been designed to measure low and high levels of hydrogen peroxide.

Test strips allow quick easy checking at Sentinel outlets.

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pH test strips

It is essential to monitor water pH in the storage tank throughout the disinfection process. The effectiveness of chlorine as a biocide is pH critical so careful pH control is necessary to maintain biocide efficiency.

Hydrogen Peroxide Strips

Hydrogen peroxide papers are provided to enable rapid detection at outlets during system disinfection. Simply wet a portion of paper in the stream of water from an outlet. Compare the colour developed with the chart provided.

pH Measurement

The effectiveness of the oxidising biocide is pH dependant. Correct pH control during chlorination is essential to ensure maximum biocide efficiency.

Simply take a sample of water to be tested and dip the test strip into the sample. Remove and Compare to colour chart provided.

Note:

1. Further instructions can be found with the corresponding product.

Hydrogen Peroxide**56I700290****15 - 500 mg/L H₂O₂**

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Material

Reagents	Packaging Unit	Part Number
Hydrogen Peroxide Buffer HP1	65 mL	56L041565
Hydrogen Peroxide HR Titrant HP2	65 mL	56L719965
Hydrogen Peroxide LR Titrant HP3	65 mL	56L649665

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 pc.	56A006501
Titration jar with cap, plastic, 60 mL	1 pc.	56A006701

Notes

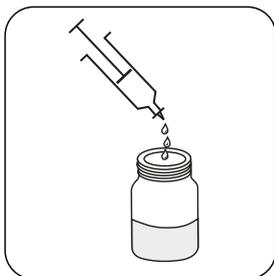
1. Colours may vary depending on sample and test conditions.
2. Other oxidising agents such as raw water residual chlorine will be included in the result but is not significant compared with the usual high concentration of peroxide employed in sanitising operations.
3. Add drops of Hydrogen Peroxide HR Titrant HP2 or Hydrogen Peroxide LR Titrant HP3 slowly with mixing. Do not use more titrant than is required for the colour to persist for at least 30 seconds or the titration will be inaccurate.

Sampling

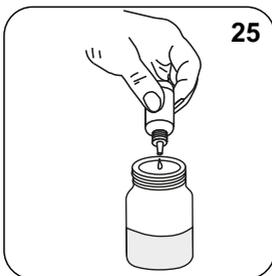
Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
1-12.5 mg/L	Hydrogen Peroxide LR Titrant HP3	40 mL	0.5
2-25 mg/L	Hydrogen Peroxide LR Titrant HP3	20 mL	1
4-50 mg/L	Hydrogen Peroxide LR Titrant HP3	10 mL	2
15-125 mg/L	Hydrogen Peroxide HR Titrant HP2	40 mL	5
25-250 mg/L	Hydrogen Peroxide HR Titrant HP2	20 mL	10
50-500 mg/L	Hydrogen Peroxide HR Titrant HP2	10 mL	20

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Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.



Add **25 drops Hydrogen Peroxide Buffer HP1**.



Swirl to mix.



Attention! Record the number of drops that will be added.

Note: Make sure to swirl the jar after adding each drop!



Add **Hydrogen Peroxide HR Titrant HP2 or Hydrogen Peroxide LR Titrant HP3** drop by drop to the sample until colouration turns from **colourless** to **pink**.



The color should persist for at least **30 seconds**.

Calculate test result: Hydrogen Peroxide (as H₂O₂) mg/L = Number of drops x factor (see table)

Hydrogen Peroxide test strips**Strips 0.5-100****0.5 - 100 mg/L H₂O₂**

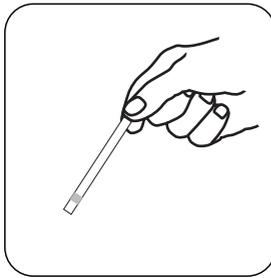
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Material

Reagents	Packaging Unit	Part Number
Hydrogen Peroxide Strips	1 pc.	56S000850

Notes

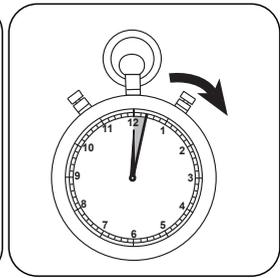
1. Store in cool, dry place (below 32°C) and away from direct sunlight.
2. When handling test strips, make sure to touch them with your fingers only at the end of the test strip. The pads must not come into contact with the fingers.
3. The test strips must be stored in the closed packaging.
4. Similar colour development may occur if other oxidizing agents, such as Free Chlorine, are present in the sample.



Remove one test strip.
Hold the end of the test strip between index finger and thumb.



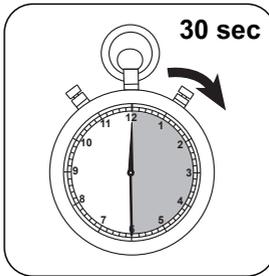
Dip the test strip into the solution to be tested so that the pad is completely immersed.



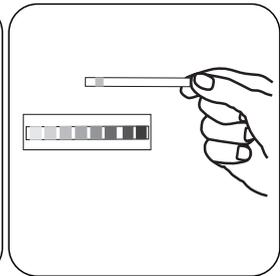
Keep the test strip immersed in the water sample for 2 seconds without moving.



Shake off excess liquid.



Wait for **30 second(s)** reaction time.



Read the result from the colour scale.

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pH

Strips pH 7-14

7 - 14 pH

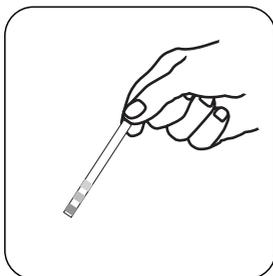
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Material

Reagents	Packaging Unit	Part Number
pH Strips pH 7-14 Plastic	1 pc.	56S001190

Notes

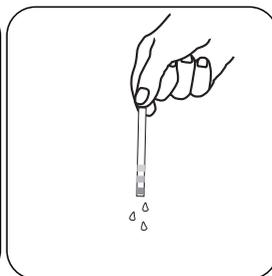
1. When handling test strips, make sure to touch them with your fingers only at the end of the test strip. The pads must not come into contact with the fingers.
2. The test strips must be stored in the closed packaging.



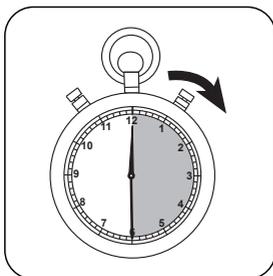
Remove one test strip.
Hold the end of the test strip between index finger and thumb.



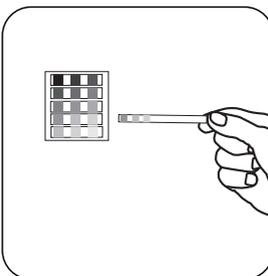
Dip the test strip into the solution to be tested so that all pads are completely immersed.



Shake off excess liquid.



Compare the colour of the test strip within 30 seconds with the colour chart provided.



Read the result from the colour scale.

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Technical changes without notice
Printed in Germany 08/23

No.: 561701150

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