

Lovibond®

INSTRUCTIONS FOR TEST KIT 411000

pH using disc 2/1J

1. Fit the disc into the Comparator. Fill two 13.5mm./10ml. moulded cells to the 10ml. mark with sample and place one cell in the left-hand compartment of the Comparator.
2. To the other cell add a Phenol Red tablet. Crush the tablet and mix to dissolve with a clean stirring rod.
3. Place the cell in the right-hand compartment of the Comparator. Match the colour against the standards by holding the Comparator facing North Daylight* and rotate the disc until the nearest colour match is obtained.
4. The pH value of the solution is shown in the bottom right-hand aperture of the Comparator.

CHLORINE using disc 3/2ARP

1. Fit disc into Comparator. Fill one 13.5mm./10ml. moulded cell to the 10ml. mark and place in the left-hand compartment of the Comparator.
2. Rinse out another cell and fill to the 10ml. mark. Add one Potassium Iodide tablet, crush with a clean stirring rod and mix to disintegrate.
3. Add one Acidifying General Purpose tablet, crush and mix thoroughly until both tablets have dissolved.
4. Place the cell in the right-hand compartment and holding the Comparator facing North Daylight*, rotate the disc until the nearest colour match is obtained.
5. The figure shown in the bottom right-hand aperture of the Comparator is the concentration of total chlorine in mg./l..

CHLORINE using disc 3/40B

1. Fit the disc into the Comparator. Fill one 13.5mm./1.0ml moulded cell to the 10ml. mark and place in the left-hand compartment of the Comparator.
2. Rinse out another cell with sample leaving a few drops of liquid in the bottom. Add one DPD No. 1 tablet, crush with a clean stirring rod and make the volume up to the 10ml. mark with sample. Mix well to dissolve tablet.
3. Place the cell in the right-hand compartment and holding the Comparator facing North Daylight*, rotate the disc until the nearest colour match is obtained.
4. The figure shown in the bottom right-hand aperture of the Comparator is the concentration of **free chlorine** in mg./l..
5. For **total chlorine** remove the cell from the right-hand side of the Comparator and add a DPD No. 3 tablet to it. Crush and mix to dissolve. Allow to stand for 2 minutes.
6. Replace the cell in the Comparator and match as before. This reading represents the concentration of total chlorine in mg./l.. For **combined** chlorine subtract the free chlorine reading from the total chlorine reading.

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HYPOCHLORITE using disc 3/2 HYPO

1. Using the syringe, take 2.5ml. of sample and place in the shaker tube. Dilute to the 50ml. mark with deionised or chlorine-free water. Mix well.
2. Take 0.5ml. of this solution and place into the second shaker tube diluting to the 50ml. mark with deionised water as before and again mix well.
3. Rinse a 13.5mm./10ml. moulded cell with this solution and fill to the 10ml. mark. Add one Potassium Iodide tablet and then one Acidifying General Purpose tablet, crush and mix to dissolve.
4. Place the cell in the right-hand side of the Comparator and fit disc 3/2HYPO. Match by holding the Comparator facing North Daylight* and rotate the disc until the nearest colour match is obtained.
5. The figure shown in the bottom right-hand aperture of the Comparator represents % w/w of available chlorine present in the original sample.

*** NORTH DAYLIGHT**

The correct light source must be used when matching colours in the Comparator, North Daylight is acceptable; the portable Lovibond[®] Daylight Unit TK102 or the Lovibond[®] Daylight 2000 Unit are recommended.

Tests conducted in the Southern Hemisphere require South Daylight instead of North Daylight.

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