

Lovibond®

INSTRUCTIONS FOR SODIUM HYPOCHLORITE % TEST KIT 411390

This rapid on site test provides a practical indication of the hypochlorite level in commercial solutions. If a very precise measurement is required, then established laboratory techniques should be used.

Disc 3/2HYPO

1. Fill the 5ml. plastic syringe with the sodium hypochlorite solution, ensuring that all bubbles are expelled. This can be done by moving the syringe plunger rapidly up and down whilst keeping the tip under the surface.
2. Next, **slowly** expel 2.5ml. of the solution into one of the 100ml. sample containers, and top up to the 50ml. mark with chlorine-free water. Mix thoroughly.
3. Fill the 1ml. syringe with the dilute solution in the sample container, taking care to expel the air bubbles.
4. Slowly, expel 0.5ml. into the second 100ml. sample container and top-up to the 50ml. mark with chlorine free water. Mix thoroughly.
5. Take a 13.5mm./10ml. moulded cell, rinse it with the second dilute solution, and then fill the cell to the 10ml mark.
6. Add one Potassium Iodide tablet, followed by an Acidifying GP tablet, to the cell. Crush both tablets with the stirring rod and mix to dissolve.
7. Place the cell in the right-hand compartment of the Comparator. Take another cell, fill with tap water, and place in the left-hand compartment of the Comparator.
8. Insert the disc into the Comparator. Match by holding the Comparator facing North daylight* and rotate the disc until the nearest colour match is obtained.
9. Read off the result in % w/w of available chlorine from the bottom right hand corner of the Comparator.

LOWER RANGE

To cover the range 0.2 - 1.6% the method is modified as follows:

Take a 2.5ml. volume of sample into the container and dilute to 50ml. with chlorine-free water. Mix well and then take 5.0ml. of this solution and dilute to 50ml. in another container. Mix well. Rinse comparator cell with this solution and then fill to the 10ml. mark. Add the reagents as per the method above.

The subsequent disc reading should be divided by 10.

NOTE

After use, thoroughly rinse out all cells, sample containers and syringes with tap water, using the cleaning brush where appropriate.

* 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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