

Technical Information

Date: June 14, 2004
Subject: CLO2 - Test procedure (with CL2 present)
Product: DulcoTest
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Dulcotest® DT1

Photometer

Start: (with free residual chlorine present in the water)

1. Press the **On / Off** key on the DT1 test kit
2. Press the **Mode** key to select **CL** (Chlorine)
3. Take the sample of water prior to the addition of the Chlorine Dioxide.
4. Fill a clean vial with the water sample up to the 10 ml mark, screw the cap on and place in the sample chamber with the ∇-mark on the vial aligned with the Δ-mark on the instrument.
5. Press the **Zero / Test** key, and wait for approximately 3 seconds.
6. The display should show **0.0.0** if the zero has been done correctly.
7. Empty the vial. Hold the drip bottle vertically and add evenly sized drops to the vial by pressing slowly (6 drops of the DPD1 buffer solution (**blue bottle**), 2 drops of DPD1 reagent solution (**green bottle**)). Add the water sample to the 10mL mark. Screw the cap on, swirl to mix, and replace the vial in the sample chamber making sure the ∇ and Δ marks are aligned.

Important... ensure the vial is dry and clean before placing in the sample chamber.

8. Press the **Zero / Test** key, and wait for approximately 3 seconds.
9. The result is shown in the display in mg/l free chlorine.

Record this value as **A** = x.xx mg/l

10. Repeat steps 7 and 8 with water that has had the Chlorine dioxide added.

Record this value as **B** = x.xx mg/l

11. Perform the following calculation to obtain the concentration of Chlorine Dioxide in the water:

$$\text{Chlorine Dioxide mg/l} = (B - A) \times 1.9$$