

Chlorine Products**56I700210****0.01 - 15 % Cl₂****Material**

Reagents	Packaging Unit	Part Number
Chlorine LR Titrant CL4	65 mL	56L014965
Chlorine HR Titrant CL5	65 mL	56L015065
Peracetic Acid Indicator CL2B Powder	Powder / 10 g	56P014810
Chlorine Buffer CL1P	Powder / 10 g	56P714610
Peracetic Acid Indicator CL2A Tablets	Tablet / 50	56T002690

The following accessories are required.

Accessories	Packaging Unit	Part Number
Syringe, plastic, 20 mL	1 Pieces	56A006501
Titration jar with cap, plastic, 60 mL	1 Pieces	56A006701
Plastic syringe, 1 ml	1 Pieces	56A013501

Application List

- Disinfection Control

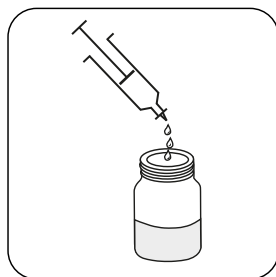
Remarks

1. Colours may vary depending on sample and test conditions.
2. Samples of less than 10 mL should be diluted to approximately 10-20 mL with chlorine free water.
3. 10.000 mg/L equals 1% which equals 720 grains per gallon.

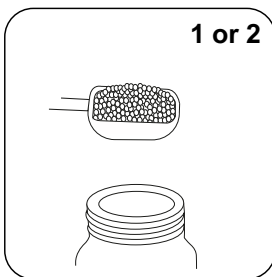
Sampling

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
100-300 mg/L	Chlorine LR Titrant CL4	40 mL	10
200-600 mg/L	Chlorine LR Titrant CL4	20 mL	20
400-1200 mg/L	Chlorine LR Titrant CL4	10 mL	40
800-2400 mg/L	Chlorine LR Titrant CL4	5 mL	80
0.2 - 0.6 %	Chlorine HR Titrant CL5	10 mL	0.02
0.4-1.2 %	Chlorine HR Titrant CL5	5 mL	0.04
1.0-3.0 %	Chlorine HR Titrant CL5	2 mL	0.1
2.0-6.0 %	Chlorine HR Titrant CL5	1 mL	0.2
4.0-12.0 %	Chlorine HR Titrant CL5	0.5 mL	0.4
8.0-15.0 %	Chlorine HR Titrant CL5	0.2 mL	1.0



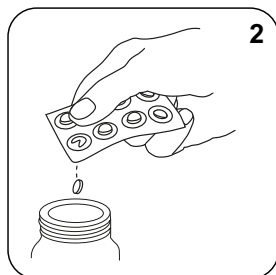
Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.



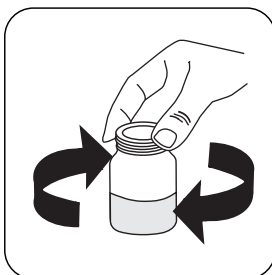
Add **1 or 2 measuring scoop(s) Chlorine Buffer CL1P (Sulphamic Acid)**.



Swirl to mix.



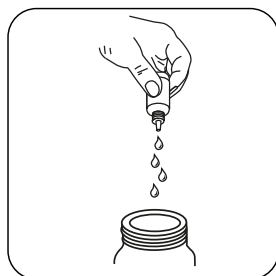
Add **2 Peracetic Acid Indicator CL2A tablet(s)**.



Swirl to mix.

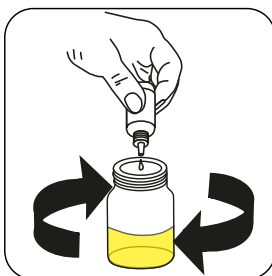


The sample will turn **orange/brown** if chlorine is present.



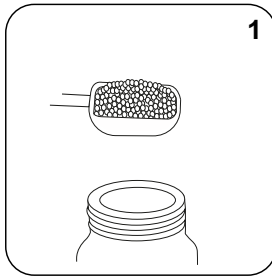
Attention! Record the number of drops that will be added.

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



Add **Chlorine LR Titrant CL4 or Chlorine HR Titrant CL5** drop by drop to the sample until colouration turns from **orange/brown** to **pale yellow**.

Make a note of the result (Resultat A, number of drops).



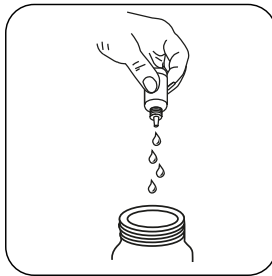
Add **1 measuring scoop(s) Peracetic Acid Indicator CL2B (Iodine Indicator)** .



Swirl to mix.

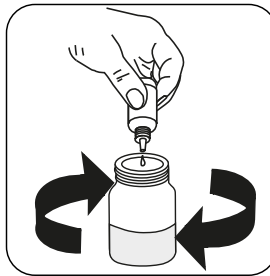


The sample will turn **blue** .



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

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



Add **Chlorine LR Titrant CL4 or Chlorine HR Titrant CL5** drop by drop to the sample until discoloration turns from **blue** to **colourless**.

Make a note of the result (Resultat B, number of drops).

Calculate test result: Total Available Chlorine (as Cl_2) % w/v = Number of drops (Result A + Result B) x factor (see table)

Calculate test result: Total Available Chlorine (Cl_2) mg/L = Number of drops (Result A + Resultat B) x factor (see table)