Zinc (Total Complexed) 56I700380

0.1 - 5 mg/L Zn

Material

Reagents	Packaging Unit	Part Number
Zinc Indicator Z4P	Powder / 20 g	56P024420
Zinc Titrant Z5	65 mL	56L019465
Zinc Buffer Z1B	65 mL	56L024365

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
Filter Circle 0.45 µm, 25 mm	1 pc.	56A020050
Filter Holder 25 mm	1 pc.	56A009101

Application List

- Cooling Water
- Boiler Water

Notes

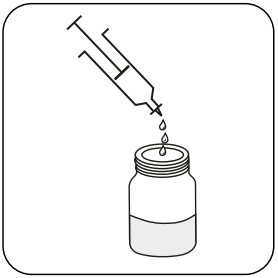
1. Colours may vary depending on sample and test conditions.
2. If the sample is observed to have suspended zinc in the water, pass the sample through a 0.45 µm membrane filter to remove any suspended zinc.
3. Strongly complexed zinc will not be measured. Therefore this test is not suitable for use with Zinc/EDTA programms.
4. QAC’s can interfere with this test.

Sampling

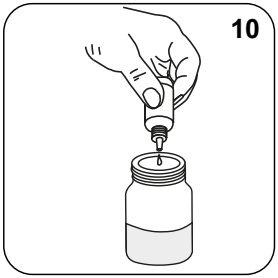
Select the sample volume from the table according to the expected measuring range and read off the factor to calculate the result.

Expected Range	Titrant used	Sample Size	Factor
0.1-1.0 mg/L	Zinc Titrant Z5	50 mL	0.1
1.0-2.0 mg/L	Zinc Titrant Z5	40 mL	0.125
2.0-3.0 mg/L	Zinc Titrant Z5	20 mL	0.25
3.0-5.0 mg/L	Zinc Titrant Z5	10 mL	0.5

Determination of soluble zinc

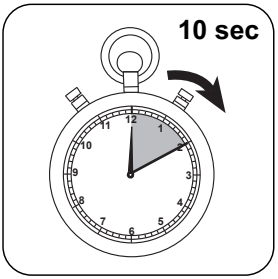


Attention! Select the appropriate sample volume according to the instructions in the chapter Sampling.

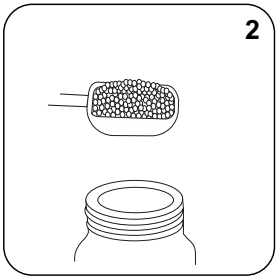


Add **10 drops Zinc Buffer Z1B**.

Swirl to mix.



Wait for **10 second(s) reaction time**.

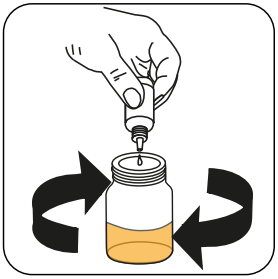


Add **2 measuring scoop(s) Zinc Indicator Z4P** .

Swirl to mix.

The sample will turn **purple** .

Attention! Record the number of drops that will be added.
Note: Make sure to swirl the jar after adding each drop!



Add **Zinc Titrant Z5** drop by drop to the sample until colouration turns from **purple** to **pale orange**.

Calculate test result: Zinc (as Zinc) mg/L = Number of drops Zinc Titrant Z5 x factor (see table)