Zinc (Zn)

Method - Colorimetric

After adding the sample into the measurement cell, some reagents are added in order to adjust the solution to the desired conditions (pH, valence's elements, etc.). Then, a blank is done to correct any temperature or turbidity disturbance. Subsequently, a last reagent is added, and it reacts with solution developing a color, which is measured using a correct wavelength. Thanks to the photometer used, the result achieves a great accuracy.

Principle of measurement

All the metallic components form cyanide complexes and the addition of cyclohexanone causes the zinc complex to dissociate allowing the zinc to react with the Zincon dye.

Advantages of the method

The method is specific for the measurement of zinc since it is only the zinc-cyanide complex which dissociates under the conditions used.

Specifications

Range: From 0 to 1 ppm / 2.5 ppm / 5 ppm. Adjustable higher concentrations with internal dilution.
Resolution: 0.01ppm
Accuracy: ±2%
Repeatability: ±2%
Analysis time: around 15 minutes
Calibration: two point
LED Wavelength: 625 nm

Reagents consumption

Reagents consumption:
- Reagent 1: 4.0 ml / analysis — 3.0L / month
- Reagent 2: 1.2 ml / analysis — 1.0L / month

Monthly consumption calculated assuming 1 analysis per hour.

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