

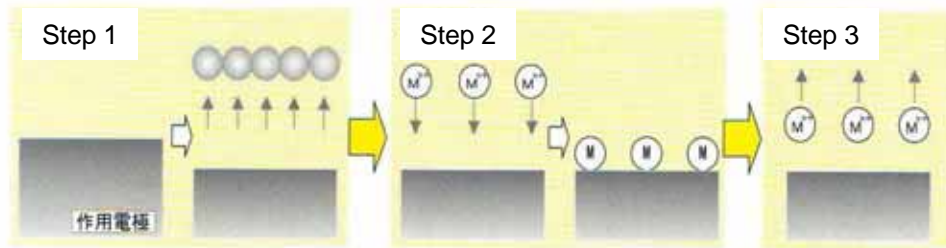
Mercury free Voltammetry Method Analyzer
THMA-101
Trace Heavy Metal Analyzer



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Principle of analysis

The electrodes, made of copper and gold, are automatically electrolyzed and grinded after use. It helps to obtain the stable test results during the repeated use.



Step 1 :

Electrode is electrolyzed and grinded before analysis

Step 2 :

Metal ion in sample solution is reduced and concentrated on electrode

Step 3 :

Draw the electrical potential to direction of plus, then oxidize and liquate the metal ion. Estimate the density from the electric current, which is generated by liquation.

How to analyze



① Add reagent to sample.

② Set the electrode and sample

③ Select parameter and start analysis

④ Add standard solution

⑤ Test result is shown.

Specifications

Analysis method	Anodic Stripping Voltammetry	
Electrode	Working	Copper (for Pb, Cd, Zn analysis)
		Gold (for Hg, As, Cu analysis)
	Reference	Silver / Silver Chloride
	Auxiliary	Platinum
Parameters (min. volume)	Pb ²⁺ 0.001mg/L	
	Cd ²⁺ 0.001mg/L	
	Hg ²⁺ 0.0003mg/L	
	As ³⁺ 0.002mg/L	
	Cu ²⁺ 0.01mg/L	
	Zn ²⁺ 0.01mg/L	