

TIQ-98049enL

# **Application Memo Quantification of Bismuth**

Industry Inorganic chemical industry
Instrument Automatic potentiometric titrator

Measurement method Chelatometric titration

Standards

#### 1. Overview

Bismuth is measured by titration of XO added test sample with 0.01mol/L EDTA solution up to the endpoint, which is determined by the color change of the indicator.

The bismuth concentration is calculated from the titration volume of EDTA.

## 2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Electrode Photometric sensor

Interference filter (530nm)

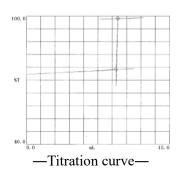
### 3. Reagents

Titrant 0.01mo1/L EDTA solution

Solvent Pure water

Indicator 0.1% XO indicator (Xylenol orange)

## 4. Example



—Measurement results—			
	Sample	Titer	Bismuth
	(mL)	(mL)	(mg/L)
1	20.0	9.5864	1001.7
2	20.0	9.5870	1001.8
3	20.0	9.5922	1002.3
Average			1001.9
SD			0.3
RSD(%)			0.03

Please feel free to contact us for any further information.

< Contact > Kyoto Electronics Manufacturing Co., Ltd.

Overseas Sales & Marketing Sect.

http://www.kyoto-kem.com/en/contact/form.php

