

TIE-00025enL

#### **Application Memo**

# **Quantitative Determination of Hydrogen Peroxide in Cosmetics**

Industry Cosmetics & soap

Instrument Automatic potentiometric titrator
Measurement method Oxidation-reduction titration

Standards

#### 1. Overview

After adding distilled water, 30% sulfuric acid and potassium iodine to the sample, and leaving in a cool dark place for 30 minutes, hydrogen peroxide concentration is measured by titration with 0.1mol/L sodium thiosulfate solution. The endpoint is the maximum inflexion on the titration curve. The hydrogen peroxide concentration is calculated from the titration volume of the sodium thiosulfate solution.

#### Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

Electrode Combined platinum electrode

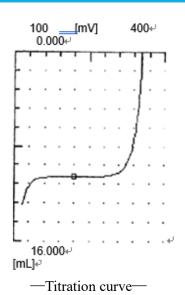
### 3. Reagents

Titrant 0.1mol/L sodium thiosulfate solution

Solvent Distilled water

Additive 30% sulfuric acid, Potassium iodine

## 4. Example



—Measurement results—			
	Sample size	Titer	Concentration
	(g)	(mL)	(%)
1	0.3035	10.5612	5.9536
2	0.3003	10.4538	5.9559
Average			5.9548

Please feel free to contact us for any further information.

< Contact > Kyoto Electronics Manufacturing Co., Ltd.



TIE-00025enL

Overseas Sales & Marketing Sect. <a href="http://www.kyoto-kem.com/en/contact/form.php">http://www.kyoto-kem.com/en/contact/form.php</a>

