

Application Memo

Oxidation Power of 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 5 minutes, oxidation power is measured by titration with 0.1mol/L sodium thiosulfate solution. The endpoint is the maximum inflexion on the titration curve. The oxidation power is calculated from the titration volume of the sodium thiosulfate solution.

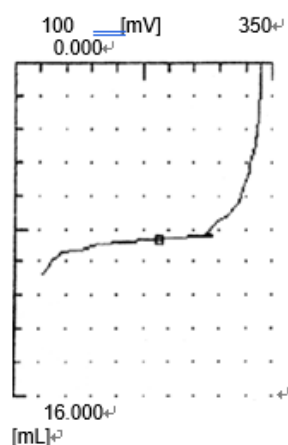
2. Apparatus

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



—Titration curve—

—Measurement results—

	Sample size (g)	Titer (mL)	Oxidation power (%)
1	0.4013	8.5285	5.3770
2	0.4020	8.6002	5.4127
Average			5.3949

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>

