KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

TIE-00022enL

Application Memo

Reducing Power of Cosmetics

Industry	Cosmetics & soap
Instrument	Automatic potentiometric titrator
Measurement method	Oxidation-Reduction titration
Standards	

1. Overview

After adding distilled water and 30% sulfuric acid to the sample, reducing power is measured by titration with 0.05mol/L iodine solution. The endpoint is the maximum inflexion on the titration curve. The reducing power is calculated from the titration volume of the iodine solution.

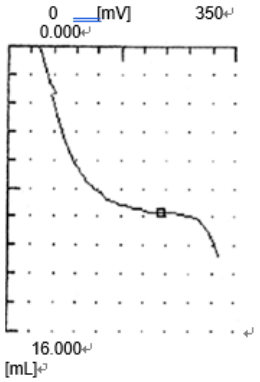
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined platinum electrode

3. Reagents

Titrant	0.05mol/L iodine solution
Solvent	Distilled water
Additive	30% sulfuric acid

4. Example



—Titration curve—

—Measurement results—

	Sample size (g)	Titer (mL)	Reducing power (%)
1	2.0005	9.3591	4.3912
2	2.0017	9.3855	4.4009
Average			4.3961

Please feel free to contact us for any further information.

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