

TIE-00023enL

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, potassium iodine, 10% hydrochloric acid and 0.05mol/L iodine solution to the sample, and leaving in a cool dark place for 20 minutes, reducing power is measured by titration with 0.1mol/L sodium thiosulfate solution. The endpoint is the maximum inflexion on the titration curve. The reducing 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

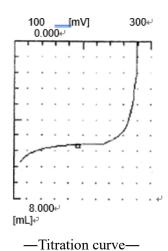
3. Reagents

Titrant 0.1mol/L sodium thiosulfate solution

Solvent Distilled water

Additive Potassium iodine, 10% hydrochloric acid, 0.05mol/L iodine solution

4. Example



—Measurement results—			
	Sample size	Titer	Reducing power
	(g)	(mL)	(%)
1	1.0045	5.3090	5.9190
2	1.0002	5.3622	5.8797
Average			5.8994

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