

TIE-00107enL

Application Memo Polyvinyl Potassium Sulfate (PVSK)

Industry Cosmetics soap

Instrument Automatic potentiometric titrator

Measurement method Colloidal titration

Standards

1. Overview

Colloidal titration is a polyelectrolyte titration method devised in 1946. Its principle is based on the immediate formation of complex by polycation and polyanion. The endpoint is usually found by the color change of the toluidine blue indicator, but this time we will use the particle changer detector unit PCD-500. This unit can automatically detect the end point without an indicator.

The test sample is titrated with 0.0005mol/L methyl glycol chitosan by PCD-500, and the concentration of polyvinyl potassium sulfate is calculated from the titration volume up to the endpoint.

2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier STD)

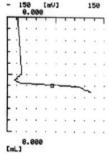
Particle changer detector unit (PCD-500)

3. Reagents

Titrant 0.0005mol/L methyl glycol chitosan

Solvent Pure water

4. Example



—Titration c	urve—

—Measurement results—			
	Sample	Titer	PVSK
	(mL)	(mL)	(mol/L)
1	5.000	4.7759	0.4776
2	5.000	4.8163	0.4816
3	5.000	4.7617	0.4762
Average			0.4785
SD			0.0028
RSD(%)			0.59

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