

Application Memo

Sodium Chloride in Peritoneal Dialysate

Industry	Pharmaceutical
Instrument	Automatic potentiometric titrator
Measurement method	Precipitation titration
Standards	Japanese Pharmacopoeia

1. Overview

The concentration of sodium chloride in peritoneal dialysate is quantified referring Japanese Pharmacopoeia. The sample liquid is titrated with 0.1mol/L silver nitrate solution, and the NaCl concentration is obtained from the titration volume where the maximum inflexion on the titration curve is determined as the endpoint.

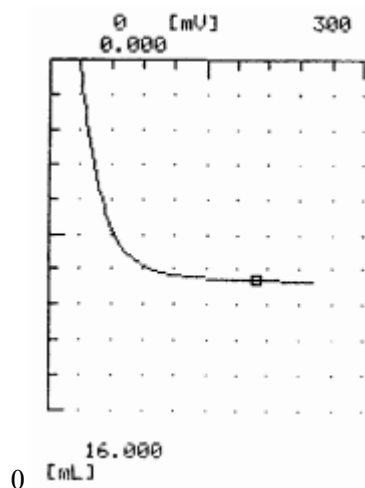
2. Apparatus

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

3. Reagents

Titrant	0.1mol/L silver nitrate solution
Solvent	Nitric acid (1+1)

4. Example



-Titration curve-

-Measurement results-			
	Sample (g)	Titer (mL)	Conc. (%)
1	10.0	10.0843	101.6
2	10.0	10.0803	101.6
3	10.0	10.0835	101.6
Average			101.6
SD			0.021
RSD(%)			0.021

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