

TIC-97003enL

# **Application Memo Calcium in Tablets**

Industry Pharmaceutical

Instrument Automatic potentiometric titrator

Measurement method Chelatometric titration

Standards

#### 1. Overview

The amount of calcium in tablets is quantified as follows. Crush the sample tablet and add pure water and 10% hydrochloric acid. Warm the liquid in bath at 80°C, and cool. Then, filter, and add water to make test sample liquid. Add water, 10% potassium hydroxide and potassium cyanide to the test sample liquid, then titrate it with 0.05mol/L EDTA. The endpoint is determined by the color change of the indicator on the titration curve. Calcium is calculated from the titration volume of EDTA.

#### 2. Apparatus

Main unit Automatic potentiometric titrator (preamplifier PTA)

Detector Photometric sensor

Interference filter (630nm)

### 3. Reagents

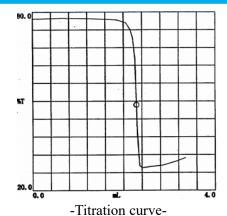
Titrant 0.05mol /L EDTA solution

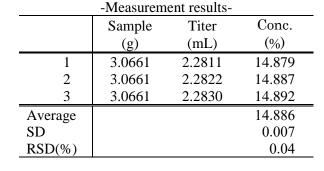
Solvent Pure water

Additive 10% Potassium hydroxide, Potassium cyanide (1g/10mL)

Indicator NN Indicator

## 4. Example





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

