

## Application Memo

# Sodium Hydrogen Carbonate in Stomach Medicine

Industry	Pharmaceutical
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	Japanese Pharmacopoeia

## 1. Overview

Sodium hydrogen carbonate is used in antacid or other pharmaceuticals. Here, a commercially available gastrointestinal medicine is titrated with 0.5mol/L sulfuric acid according to Japanese Pharmacopoeia. The contained sodium hydrogen carbonate is determined by the endpoint, which is the maximum inflexion point on the titration curve.

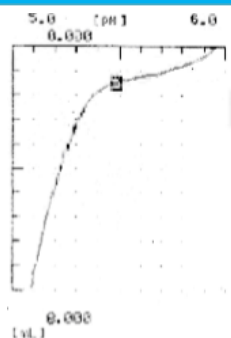
## 2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	Combined glass electrode Temperature compensation electrode

## 3. Reagents

Titrant	0.5mol/L sulfuric acid
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## 4. Example



—Titration curve—

—Measurement results—

	Sample (g)	Titer (mL)	Content (%)
1	1.960	1.2055	5.208
2	1.960	1.2077	5.218
3	1.960	1.2045	5.204
Average			5.210
SD			0.007
RSD(%)			0.1

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