

## Application Memo

# Formol Nitrogen in Hydrolyzed Protein

Industry	Food
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

## 1. Overview

Formol nitrogen in hydrolyzed protein (HAP) is measured by titrating with 0.1mol/L sodium hydroxide up to pH8.5 by adding neutral formaldehyde after the first titration with 0.1mol/L sodium hydroxide to pH8.5.

The amount of formol nitrogen is calculated from the difference in titration volume of 0.1mol/L sodium hydroxide between the first and second endpoint.

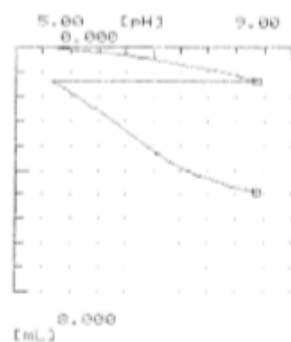
## 2. Apparatus

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

## 3. Reagents

Titant	0.1mol/L sodium hydroxide solution
Solvent	Pure water Neutral formaldehyde solution (Neutralize 50mL formaldehyde solution (JIS K 8872) up to pH8.5 with 0.1mol/L sodium hydroxide solution, add water to make a total of 100mL)

## 4. Example



—Titration curve—

—Measurement results—

	Sample (mL)	Titer (mL) (EP2-EP1)	Formol nitrogen (W/V%)
1	5.0	3.6149	1.016
2	5.0	3.5888	1.009
3	5.0	3.6155	1.016
Average			1.014
SD			0.004
RSD(%)			0.4

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