

Application Memo

Salinity of Salted Plum (Umeboshi)

| | |
|--------------------|-----------------------------------|
| Industry | Food & beverage |
| Instrument | Automatic potentiometric titrator |
| Measurement method | Precipitation titration |
| Standards | |

1. Overview

Based on the Japanese Agricultural and Forestry Standards for Pickled Agricultural Products (Ministry of Agriculture, Forestry and Fisheries No. 60, January 14, 1998), the sodium chloride concentration of the salted plum is determined by the titration with 0.1 mol/L silver nitrate up to the end point.

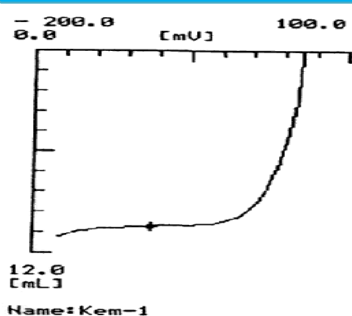
2. Apparatus

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

3. Reagents

| | |
|---------|--------------------------|
| Titrant | 0.1 mol/L silver nitrate |
|---------|--------------------------|

4. Example



—Titration curve—

—Measurement results—

| | Sample size (g) | Titer (mL) | Concentration (w/w%) |
|---------|-----------------|------------|----------------------|
| 1 | 0.5041 | 10.5005 | 12.15 |
| 2 | 0.5041 | 10.4868 | 12.13 |
| 3 | 0.5041 | 10.4981 | 12.15 |
| Average | | | 12.14 |
| SD | | | 0.01 |
| RSD(%) | | | 0.07 |

Please feel free to contact us for any further information.
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