

Application Memo

Quantitative Determination of Ambrochisol Hydrochloride

| | |
|--------------------|-----------------------------------|
| Industry | Pharmaceutical |
| Instrument | Automatic potentiometric titrator |
| Measurement method | Neutralization titration |
| Standards | |

1. Overview

After adding bismuth nitrate and 1,4 dioxane to glacial acetic acid which dissolved the sample, ambrochisol hydrochloride concentration is measured by titration with the titrant. The endpoint is the maximum inflexion on the titration curve. The ambrochisol hydrochloride concentration is calculated from the titration volume of the titrant

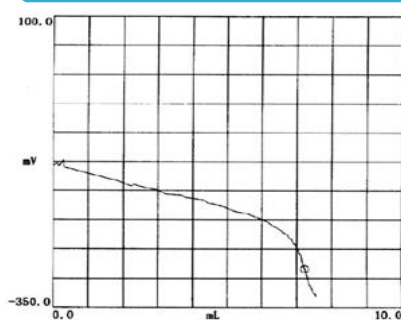
2. Apparatus

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

3. Reagents

| | |
|----------|---|
| Titrant | 0.1mol/L perchloric acid (Acetic acid solution) |
| Solvent | Glacial acetic acid, 1,4 dioxane |
| Additive | Bismuth nitrate |

4. Example



—Titration curve—

—Measurement results—

| | Sample size (g) | Titer (mL) | Concentration (%) |
|---------|-----------------|------------|-------------------|
| 1 | 0.3006 | 7.2264 | 100.1 |
| 2 | 0.3005 | 7.2192 | 100.0 |
| 3 | 0.3007 | 7.2175 | 99.9 |
| Average | | | 100.0 |
| SD | | | 0.1 |
| RSD(%) | | | 0.01 |

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