

# Ti Application Note No. T- 65

<b>Title:</b>	<b>Astemizole in raw products</b>
<b>Summary:</b>	Determination of the antihistamine astemizole in raw products by non-aqueous potentiometric titration with perchloric acid using separate electrodes.
<b>Sample:</b>	Astemizole, raw product
<b>Sample Preparation:</b>	none
<b>Instruments and Accessories:</b>	702, 716, 736, 751 or 785 Titrino or 726 Titroprocessor, 6.0133.100 pH glass electrode, 6.0726.100 Ag/AgCl reference electrode (bridge electrolyte LiCl sat. in ethanol)
<b>Analysis:</b>	Weigh exactly approx. 160 mg sample into a beaker and dissolve in 50 mL 2-butanone/glacial acetic acid 7 : 1 (v/v) under stirring. Titrate with $c(\text{HClO}_4) = 0.1 \text{ mol/L}$ in glacial acetic acid using the MET mode.
<b>Calculation:</b>	$1 \text{ mL } c(\text{HClO}_4) = 0.1 \text{ mol/L}$ corresponds to 22.929 mg astemizole $\% \text{ astemizole} = \text{EP1} * \text{C01} * \text{C02} / \text{C00}$ EP1 = titrant consumption in mL C00 = approx. 0.16 (sample weight in g) C01 = 22.929 C02 = 0.1 (conversion factor for %)
<b>Results:</b>	AVG(5) = 98.13 ± 0.18 % astemizole
<b>Remarks:</b>	Store the pH glass electrode in dist. water between titrations.