Ti Application Note No. T-3

Title:	Salt content (NaCl) of canned food
Summary:	Determination of chloride in canned vegetables by potentiometric titration with silver nitrate using the Ag Titrode.
Sample:	Canned beans, tomato paste etc.
Sample	
Preparation:	Shake the unopened container to incorporate any sediment. Open the container and weigh 50.0 g sample into a mixer. Add 450 g dist. water and mix for 1 2 min.
Instruments and	1
Accessories:	702, 716 or 736 Titrino or 726 Titroprocessor, 6.0430.100 Ag Titrode
Analysis:	Weigh exactly ca. 5 g of the mixed sample into a beaker, add 50 mL HNO ₃ (volume ratio conc. HNO ₃ : dist. water = 1 : 49; ca. 0.2 mol/L HNO ₃) and 45 mL dist. water and titrate with $c(AgNO_3) = 0.1$ mol/L.
Calculation:	% NaCI – EP1 * C01 * C02 * C03 / C00
	 EP1 = titrant consumption in mL C00 = ca. 0.5 (g of original sample contained in the sample volume used for the titration) C01 = 0.1 (concentration of the titrant in mol/L) C02 = 58.44 (M(NaCl) in g/mol) C03 = 0.1 (conversion factor for %)
Remarks:	Result (pickled cucumber juice): AVG(6) = 1.830 +/- 0.003 % NaCl