

Ti Application Note No. T-14

Title:	Chlorhexidine in wash lotion
Summary:	Determination of chlorhexidine in wash lotion by potentiometric titration with sodium tetraphenylborate using the NIO surfactant electrode.
Sample:	Wash lotion
Sample Preparation:	none
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Instruments and Accessories:	702, 716 or 736 Titrino or 726 Titroprocessor, 6.0507.010 NIO surfactant electrode and 6.0726.100 reference electrode (bridge electrolyte c(NaCl) = 3 mol/L)
Analysis:	Weigh exactly ca. 0.3 mL sample into a beaker and dilute with 60 mL dist. water, then titrate with sodium tetraphenylborate c(STPB) = 0.01 mol/L.
Calculations:	% chlorhexidine = EP1 * C01 * C02 *C03 / (C00 * C04)
	EP1 = titrant consumption in mL
	C00 = sample weight in g C01 = 0.01 (concentration of the titrant in mol/L)
	C02 = titre of the titrant
	C03 = 252.74 (M(chlorhexidine) / 2 in g/mol)
	C04 = 10 (conversion factor for %)
Remarks:	C03 is different if the result of the calculation doesn't refer to chlor- hexidine but to one of its salts (e.g diacetate, dichloride, digluco- nate).
	Result: AVG(5) = 2.05 +/- 0.02 % chlorhexidine