Ti Application Note No. T- 56

Title:	**Lauryl ether sulphate by photometric/turbidimetric titration**

***Summary*:**	Determination of lauryl ether sulphate (LAES) by potentiometric/ turbidimetric titration with TEGO trant A100 using the 610 nm Spectrode.

Sample:	Lauryl ether sulphate standards

Sample Preparation:	none

Instruments and Accessories:	702, 716, 736, 751 or 785 Titrino, 722 Propeller Rod Stirrer, 6.5501.01X Spectrode 610 nm, Metrodata TiNet 2

Analysis:	Pipette the sample into a beaker, add 10 mL buffer solution pH = 3 and make up to about 60 mL with dist. water, then titrate with c(TEGO trant A100) = 0.004 mol/L using the MET mode.

Calculation:	1 mL c(TEGO trant A100) = 0.004 mol/L corresponds to 0.004 mmol LAES mmol/L LAES = EPx * C01 * C02 / C00 EPx = titrant consumption in mL EP1: evaluation Titrino EP2: intersection point TiNet C00 = sample volume in mL C01 = 0.004 C02 = 1000 (conversion factor in mL/L)

Remarks:	This method cannot be used for formulations containing non-ionic surfactants.

Results:

Date	11.08.1998		Time 11:09:46
User	JS		
Method	LAES with Spectrode		
Id1	610nm MET		
EPC	30		
SmplSize	4 ml		
Endpoints:			
MET U.EP1		9.395 ml	322 mV
MET U.Intersection1		9.496 ml	0 mV
Results:			
LAES1		9.395 mmol/l	
LAES2		9.496 mmol/l	