KF Application Note No. K-7

Title:	Water in yoghurt powder	
Summary:	The water content of yoghurt powder is determined according to Karl Fischer. Because of the relatively high water and fat content the sample is prediluted with a 1 : 1 mixture of chloroform and methanol.	
Sample:	Yoghurt powder	

Sample	
Preparation:	Weigh exactly ca. 10 g sample into a septum flask and add 50 mL solvent mixture (also weighed). Stopper the flask and stir for 1 h. For the blank determination a flask has to be prepared in the same way but without sample.

Instruments and Accessories:		trino or 720 KFS Titrino, 703 Titration Stand, printer
Analysis:	In the «blank determination» mode, inject 2 m a syringe (carry out a fivefold determination). terminations are stored automatically for the s For the actual analysis add ca. 2 mL sample to the titration vessel containing 20 mL pre then start the automatic titration (fivefold det mass of the added solvent mixture (blank de solution (actual analysis) is determined by diffe	
	Reagents Solvents: Titrant:	s: methanol (dry) solvent mixture: volume ratio chloroform : methanol = 1 : 1 Hydranal Composite 5 (Riedel-de Haën)

Results: AVG(5) = 3.87 +/- 0.013 % water

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Settings:	701 KF Titrino			
	>titration parameters			
	extr.time	0 s		
	stop crit.:	drift		
	stop drift	20 uL/min		
	>preselections			
	conditioning:	on		
	req.smpl size:	on		
	report:	full		