



TOTAL AEROBIC COUNT PLATE		M-04-K-UK	
Application area: (tap) water, water from the final rinse	Page	1 of 1	
	Date:	050801	
	WVS version	V01	
EXTERNAL PROCEDURE CCD			
Requirements: Petrifilm, Aerobic Count Plates, type SM - store at a temperature of approx. 5°C, check the expiration date before use. Pipet 1 ml separately packaged, sterile Sampling jars, sterile Spreader (supplied only once)			
Sample preparation: Check samples from the final rinse for residual chlorine, peroxide and/or alkalinity. Samples have to be neutral (pH 6-8) and free from active chlorine or peroxide.			
Instructions: <u>Sampling:</u> Clean the sampling point and let the water run for a least 1 minute. Close the tap until only a small stream remains. Open the jar and take a sample. Do not touch the lid or inside of the lid/jar. Do not put the lid aside. The sampling jars are for <u>single use</u> . <u>Plating:</u> Provide a clean and draft free room. <ol style="list-style-type: none">1 Place the Petrifilm on a level surface2 Lift the top film and dispense 1 ml of sample to the centre of bottom film3 Drop top film down onto sample4 With the recessed side down, place the plastic spreader on the centre of the plate5 Distribute the sample evenly by pushing gently downward on the centre of the plastic spreader. Do not slide the spreader across the film6 Remove the spreader and leave the plate undisturbed for at least one minute to permit the gel to solidify Every sample is plated on two Petrifilms. Incubation: 48(±2) hours at 32(±1)°C in a horizontal position with the clear side up <u>Interpretation:</u> Count all red colonies regardless of size or intensity. The circular growth area is approx. 20 cm ⁵ . Estimates can be made on plates containing greater than 250 colonies by counting the number of colonies in one or more representative squares and determining the average number per square. Multiply the average number by 20 to determine total count per plate. The number of colonies is the amount of colonie forming units (cfu) per ml.			