

A2LA Assessor Environmental Method Checklist

Surfactants (MBAS)

Item	Section 1 - Personnel	Reference	Yes-No or NA	
1.1	Does the analyst(s) interviewed meet the job description position requirements, training and qualifications for performing the test? Supervisor: _____ Technician: _____	(G25)6.1		

Item	Section 2 - Equipment & Facilities	Reference	Yes-No or NA	
2.1	Is colorimetric equipment available with a light path of 1 cm or longer?	(SM18)5540C,2.a (1992)		
2.2	Is the measurement made at 652 nm?	(SM18)5540C,2.a (1992)		
2.3	Are 500 mL separatory funnels with inert stoppers and stopcocks available?	(SM18)5540C,2.b (1992)		

Item	Section 3 - Method	Reference	Yes-No or NA	
3.1	Is the source of stock linear alkylate sulfonate (LAS) solution from EMSL-Cincinnati or other acceptable source?	(SM18)5540C,3.a (1992)		
3.2	Are standards of LAS prepared daily?	(SM18)5540C,3.b (1992)		
3.3	Are nine standards used to prepare the calibration curve?	(SM18)5540C,4.a (1992)		
3.4	Are analysts aware of chloroform and methanol hazards?	(SM18)5540C,3.f,i (1992)		
3.5	Is sublation used to concentrate or purify samples?	(SM18)5540C,4.b 1992)		
3.6	Is peroxide treatment used to avoid sulfide interference?	(SM18)5540C,4.c (1992)		

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3.7	Is the same volume of isopropyl alcohol added to all standards, when isopropyl alcohol is used to break emulsions?	(SM18)5540C,4.d (1992)		
3.8	Is the sample discarded and a new sample using less volume retested when the blue color in the water phase becomes faint or disappears during extraction?	(SM18)5540C,4.d (1992)		
3.9	Are results reported as MBAS, calculated as LAS, molecular weight?	(SM18)5540C,5(1992)		

Item	Section 4 - Sample Handling Practices	Reference	Yes-No or NA	
4.1	Are wastewater samples analyzed within 48 hours after sampling?	(CFR136)TableII(1/94)		

Item	Section 5 - Quality Control Practices	Reference	Yes-No or NA	
5.1	Are the laboratory control standards externally supplied standards traceable to NIST with a concentration between 5 and 50 times the MDL or near sample ambient levels?	(SM18)1020B,3(1992)		
5.2	Is the laboratory control standard analyzed once each day of analysis or whenever known additions do not result in acceptable recovery?	(SM18)1020B,3(1992)		
5.3	Is the reagent blank analyzed for at least 5% of the sample load?	(SM18)1020B,4(1992)		
5.4	Are duplicates analyzed for at least 5% of the sample load?	(SM18)1020B,6(1992)		
5.5	Are known additions (sample spikes) analyzed for at least 10% of the sample load?	(SM18)1020B,2(1992)		
5.6	Are known additions made between 5 and 50 times the MDL or between 1 and 10 times the ambient level (whichever is greater)?	(SM18)1020B,2(1992)		
5.7	Is the percent recovery for known additions between 80-120%?	(SM18)1020B,2(1992)		