

Materials List for

Early Detection of Cyanobacterial Blooms and Associated Cyanotoxins using Fast Detection Strategy

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Materials

Name	Company	Catalog Number	Comments
10X Vitamin mix			Nicotinic acid 100 mg/100 mL; PABA 10 mg/100 mL; Biotin 1 mg/100 mL; Thiamine 200 mg/100 mL; B ₁₂ 1 mg/100 mL; Folic Acid 1 mg/100 mL; i-inositol 1 mg/100 mL; Ca-pantothenate 100 mg/100 mL
1-BuOH	Sigma-Aldrich	33065.2.5L-R	
BG11 stock solution			Na ₂ EDTA 20 mg/L; Ferric ammonium citrate 120 mg/L; Citric acid·1H ₂ O 120 mg/L; CaCl ₂ ·2H ₂ O 700 mg/L, MgSO ₄ ·7H ₂ O 1.5 g/L, K ₂ HPO ₄ ·3H ₂ O 800 mg/L, NiSO ₄ (NH ₄) ₂ SO ₄ ·6H ₂ O (0.1 mM stock) 5 mL; Na ₂ SeO ₄ (0.1 mM stock) 2 mL, Nitsch's Solution 20 mL
Centrifuge	Hermle	Z36HK	
CHCl ₃	Honeywell	32211.2.5L	
H ₂ O	Sigma-Aldrich	34877.2.5L	
Kinetex C18 cloumn	Phenomenex		
LTQ Orbitrap XL high-resolution ESI mass spectrometer coupled to a U3000 HPLC system	Thermo		
MeOH	Honeywell	32213.2.5L	
Microscope equipped with an OMAX 18 MP CMOS camera	Optech	Biostar B3	
Multiband camera	Intergraph DMC		
Nitsch's Solution			H ₃ BO ₃ 0.5 g/L MnSO ₄ ·H ₂ O 2.28 g/L ZnSO ₄ ·7H ₂ O 0.5 g/L CuSO ₄ ·5H ₂ O 0.025 g/L

			COCl ₂ ·6H ₂ O 0.135 g/L Na ₂ MoO ₄ ·2H ₂ O 0.025 g/L
Refractometer nr 100 ATC	AQL		
SWBG11 medium			BG11 stock solution 50 mL/L; Instant Ocean 33 g/L; Water 950 mL/L 10X; Vitamin mix 100 µL/L