

Materials List for:

Clean Sampling and Analysis of River and Estuarine Waters for Trace Metal Studies

Kuo-Tung Jiann^{*1}, Liang-Saw Wen^{*2,3}, Peter H. Santschi⁴

¹Department of Oceanography, National Sun Yat-sen University

²Institute of Oceanography, National Taiwan University

³Taiwan Ocean Research Institute, National Research Laboratories

⁴Department of Oceanography and Marine Sciences, Texas A&M University at Galveston

*These authors contributed equally

Correspondence to: Kuo-Tung Jiann at ktjiann@fac.nsysu.edu.tw

URL: <https://www.jove.com/video/54073>

DOI: [doi:10.3791/54073](https://doi.org/10.3791/54073)

Materials

Name	Company	Catalog Number	Comments
Nitric Acid	Seastar Chemicals		Baseline grade
Ammonium hydroxide	Seastar Chemicals		Baseline grade
Acetic Acid	Seastar Chemicals		Baseline grade
Nitric Acid	J. T. Baker	9601-05	Reagent grade
Hydrochloric acid	J. T. Baker	9530-33	Reagent grade
Chromatographic columns	Bio-Rad	7311550	Poly-Prep
Column stack caps	Bio-Rad	7311555	
Cap connectors (female Luers)	Bio-Rad	7318223	
2-way stopcocks	Bio-Rad	7328102	
Cation exchange resin	Bio-Rad	1422832	Chelex-100
Portable sampler (sampling pump)	Cole Palmer	EW-07571-00	
FEP tube	Cole Palmer	EW-06450-07	6.4 mm I.D., 9.5 mm O.D.
Pumping tube	Cole Palmer	EW-06424-24	6.4 mm I.D. C-Flex
Capsule filter (0.4 mm)	Fisher Scientific	WP4HY410F0	polypropylene casing
1 L low density polyethylene bottle	NALGE NUNC INTERNATIONAL	312088-0032	
1 L (or 500 ml) FEP bottle	NALGE NUNC INTERNATIONAL	381600-0032	