

Dissolved Solute Sampling Across an Oxic-Anoxic Soil-Water Interface Using Microdialysis Profilers

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Materials

Name	Company	Catalog Number	Comments
3D Printer	Snapmaker, United States	Snapmaker 2.0	Model: A250
3M DP190 Scotch-Weld Gray	3M United States	489-483	Gray
Centrifuge tube	Titan, China	SWLX-JZ050-ZX	50 mL, Sterilized DNASE/RNASE/Protease/Pyrogen Free
Ceramic knife	R felngli, China	N.A.	General
EDTA FREE ACID	Sigma-Aldrich	CAS 60-00-4	Sigma-Aldrich#EDS-1KG
Ethanol	Adamas	CAS 64-17-5	Water ≤ 50 ppm (by K.F.), 99.5%, SafeDry, with molecular sieves, Safeseal
Hot melt adhesive	Magic Dragon, China	N.A.	JTWJRRJB001
Inductively Coupled Plasma Mass Spectrometry	PerkinElmer, Inc., Shelton, CT USA	N.A.	Model: NexION 350X
Medical Infusion Bag	Hunan Kanglilai Medical Equipment Co., Ltd	N.A.	250 ML, Sterilized
Milli-Q water system	Mingche, Inc., China	N.A.	18.3 MΩ, water purification system model: 24UV
Nanomembrane Tube (polyethersulfone)	Motimo Membrane Technology Co., Ltd., Tianjin, China	N.A.	Polyethersulfone, inner diameter 1 mm, poresize <20 nm, pretreated with ethanol (99.5%)
Nitrogen gas	Suzhou Gas, Chuina	N.A.	High purity
Nitrotic acid (Concentrated)	Adamas	CAS 7697-37-2	69%, Single Metal < 50 ppt, PFA Bottle
Nylon Fiber	Soumiety	10052076600273	For 3D-printing
Pipette	Bond A3 Pipette	N.A.	200 μL
Pipette Tip	Titan	T2-H-T0200	200 μL, 300 μL Tip Box Non-sterile 200 μL Titan
Polytetrafluoroethylene Tube	ROHS, China	CJ-TTL	Out diameter 1 mm
Sample vial	Titan, China	EP0060-B-N	0.6 mL, Sterilized DNASE/RNASE/Protease/Pyrogen Free
Silicon cap	Fuchengxiangsu, China	N.A.	Inner diameter 1 mm, length 1 cm
Sonicator	Elma	N.A.	model:E120H

Square PVC water pipe	Taobao.com	N.A.	hight x width, 12 cm x 15 cm
Three-way valve for infusion	OEM, China	N.A.	Medical level; Valve body: PC material; valve core: PE material; screw cap: ABS material