

Materials List for:

Setup of Capillary Electrophoresis-Inductively Coupled Plasma Mass Spectrometry (CE-ICP-MS) for Quantification of Iron Redox Species (Fe(II), Fe(III))

Bernhard Michalke¹, Desiree Willkommen^{1,4}, Vivek Venkataramani^{2,3}

¹Research Unit Analytical BioGeoChemistry, Helmholtz Zentrum München-German Research Center for Environmental Health

²Department of Hematology and Medical Oncology, University Medical Center Göttingen (UMG)

³Institute of Pathology, University Medical Center Göttingen (UMG)

⁴RECIPE Chemicals + Instruments GmbH

Correspondence to: Bernhard Michalke at bernhard.michalke@helmholtz-muenchen.de

URL: <https://www.jove.com/video/61055>

DOI: [doi:10.3791/61055](https://doi.org/10.3791/61055)

Materials

Name	Company	Catalog Number	Comments
CE capillary	CS-Chromatographie Service, Langerwehe, Germany	105180-25	
CE system	PrinCe technologies	0005.263	model PrinCe 760
Conical Superclear Tubes 15 ml	Analytics-shop.com by Altmann Analytik	PEN0777704	
Conical Superclear Tubes 50 ml	Analytics-shop.com by Altmann Analytik	PEN0777694	
FeCl ₂ * 4H ₂ O	Merck	103861	
FeCl ₃	Merck	803945	
Fluidflex Silikon HG-Schlauch	ProLiquid	4001106HG	
Fused silica capillary OD 360 µm, ID 50 µm	Chromatographie Service GmbH	105180-25	
hydrochloric acid, 1 M	Merck	1101652500	corrosive
ICP-MS	Perkin Elmer	N814003	
Luer, 3-way female	BioRad	7318229	
Luer, cone male	neoLab Migge	2-1895	
Luer, male	neoLab Migge	2-1880	
Peakfit peak evaluation software	Systat	PeakFit 4.12	
Pt-wire	Carl Roth	0737.1	
PVC tube	ProLiquid	6000002	
RIPA buffer	Abcam	ab156034	
Tetramethylammoniumhydroxide, 25 %	Merck	814748	corrosive
TYGON-tube R-3607	ProLiquid	3700203A	