

Materials List for:

Preparation of Authigenic Pyrite from Methane-bearing Sediments for *In Situ* Sulfur Isotope Analysis Using SIMS

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Materials

Name	Company	Catalog Number	Comments
secondary ion mass spectroscopy	Cameca	IMS-1280	
thermal field emission scanning electron microscopy	Quanta	Quanta 400F	
elemental analyser - isotope ratio mass spectrometry	ThermoFinnigan	ThermoFinnigan Delta Plus	
binocular microscope	any	NA	
reflected light microscope	Carl Zeiss	3519001617	
polishing machine	Struers	60210535	
cutting machine	Struers	50110202	
carbon/gold coating machine	any	NA	
ethanol	any	NA	
acetic acid	any	NA	
zinc acetate solution (3%)	any	NA	
HCl solution (25%)	any	NA	
1 M CrCl ₂ solution	any	NA	
0.1 M AgNO ₃ solution	any	NA	
V ₂ O ₅ powder	any	NA	
pure nitrogen	any	NA	
syringe	any	NA	
filter(<0.45 µm)	any	NA	
tin cups	any	NA	
round bottom flasks	any	NA	
epoxy	Struers	41000004	