

Materials List for:

Improving Infrared Spectroscopy Characterization of Soil Organic Matter with Spectral Subtractions

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Materials

Name	Company	Catalog Number	Comments
Nicolet iS50 spectrometer	Thermo Fisher Scientific	912A0760	infrared spectrometer used to collect spectra
EasiDiff	Pike Technologies	042-1040	high throughput sample holder
OMNIC	Thermo Fisher Scientific	INQSOF018	software used to perform subtractions
6% v/v sodium hypochlorite	Clorox	n/a	generic store-bought bleach for oxidative removal of soil organic matter
Type 47900 Furnace	VWR International	30609-748	muffle furnace for ashing soils to removal soil organic matter
VWR Gooch Crucibles, Porcelain	VWR International	89038-038	crucibles for ashing
VWR Tube 50 mL Sterile CS500	VWR International	89004-364	for sodium hypochlorite
Forced air oven	VWR International	89511-414	for drying soils after oxidation and water washes
VersaStar pH meter	Fisher Scientific	13 645 573	for measuring pH of oxidation solution