

Materials List for:

GC-based Detection of Aldononitrile Acetate Derivatized Glucosamine and Muramic Acid for Microbial Residue Determination in Soil

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Materials

Name	Company	Catalog Number	Comments
Muramic acid	Sigma-Aldrich	M2503-25MG	
D-(+)-glucosamine hydrochloride	Sigma-Aldrich	G1514-100G	
N-methyl-D-glucamine	Sigma-Aldrich	M2004-500G	
Myo-inositol	Fisher Scientific	A307003G025	
Methanol (dry)	Acros Organics	AC326950010	
4-dimethylamino-pyridine	Acros Organics	AC148270050	
Ethyl acetate	VWR international	BJGC100-4	
Hydroxylamine hydrochloride	Fisher Scientific	H330-100	
Pyridine	Fisher Scientific	P368-500	
Acetic anhydride	Fisher Scientific	A10-100	
Dichloromethane (Methylene chloride)	Fisher Scientific	D37-500	
Hexane	Fisher Scientific	H303-4	
Hydrochloric acid (6M)	Fisher Scientific	S456-4	
Hydroxylamine hydrochloride- ¹⁵ N	Icon services	IN5280	
Acetic anhydride- ² H (D ₆ C ₄ O ₃)	Acros Organics	AC174670050	
D-glucose-U- ¹³ C	Cambridge Isotope Laboratories	CLM-1396-1	
Ammonium sulfate- ¹⁵ N	Cambridge Isotope Laboratories	NLM-713-1	
Rapid-Vap	Labconco Corp.	790002	
Vacuum pump	KNF Neuberger	D-79112	
Hydrolysis flask	Fisher Scientific	06 423A	
Derivatization microvial	Fisher Scientific	06-100E	
GC	Hewlett-Packard	6890	
MS	Hewlett-Packard	5972	
LC-ESI-TOF-MS	Agilent Technologies	An Agilent 1200 series HPLC system coupled to an Agilent LC/MSD-TOF	