

Materials List for:

Enzymatic Cascade Reactions for the Synthesis of Chiral Amino Alcohols from L-lysine

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Materials

Name	Company	Catalog Number	Comments
HEPES	Sigma Aldrich	H3375	
L-lysine hydrochloride	Sigma Aldrich	L5626	
(5S)-hydroxy-L-lysine	Sigma Aldrich	GPS NONH	Out sourcing
α-ketoglutaric acid	Sigma Aldrich	75892	
Sodium ascorbate	Sigma Aldrich	A7631	
Ammonium Iron(II) sulfate hexahydrate	Acros	201370250	
Pyridoxal phosphate (PLP)	Sigma Aldrich	82870	
3,4-dimercaptobutane-1,2-diol (DTT)	Sigma Aldrich	D0632	
1-fluoro-2,4-dinitrobenzene (DNFB)	Sigma Aldrich	D1529	
Ethanol	VWR	20825.290	
Sodium hydrogen carbonate	Sigma Aldrich	71631	
HCl 37%	Sigma Aldrich	435570	
HCl 0.1M	Fluka	35335	
Acetonitrile HiPerSolv CHROMANORM for LC-MS	VWR	83640.320	
2,2,2-trifluoroacetic acid	VWR	153112E	
Ammonia 28%	VWR	21182.294	
Methanol HiPerSolv CHROMANORM for LC-MS	VWR	83638.32	
Formic acid	Acros	270480010	
Phosphoric acid 85%	Acros	201145000	
Deuterium oxide	Acros	320,710,075	
NaOH	Sigma Aldrich	S5881	
C18 HPLC column	Phenomenex	00F-4601-Y0	
Accela UHPLC System	ThermoFisher Scientific		
Accela PDA detector	ThermoFisher Scientific		
4mm syringe filters - 0,22µm - PVDF	Merck	SLGVR04NL	
Single-use tuberculin syringe with ml graduation, Luer tip	VWR	HSWA5010.200V0	
Cation exchange resin 100-200 mesh	Sigma Aldrich	217506	
Mixed mode cation-exchange solid-phase extraction cartridge 6 mL	Waters	186000776	

Extraction manifold	Waters	WAT200609	
Rotary evaporator	Büchi	531-0103	
Lyophilizer alpha 1-2 LDplus	Christ	L083302	
Micropipette 20 µL	Eppendorf	3121000031	
Micropipette 100 µL	Eppendorf	3121000074	
Micropipette 500 µL	Eppendorf	3121000112	
Micropipette 1000 µL	Eppendorf	3121000120	
300 MHz spectrometer	Bruker		
2 mL microtube	CLEARLine	CL20.002.0500	
50 mL conical-bottom centrifuge tube	Fischer Scientific	05-539-8	
25 mL round-bottom flask 14/23	Fischer Scientific	10353331	
100 mL round-bottom flask 29/32	Fischer Scientific	11786183	
250 mL round-bottom flask 29/32	Fischer Scientific	11786183	
250 mL erlenmeyer flask	Fischerbrand	15496143	