

Materials List for:

Preparation, Purification, and Characterization of Lanthanide Complexes for Use as Contrast Agents for Magnetic Resonance Imaging

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URL: <https://www.jove.com/video/2844>

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Materials

Name	Company	Catalog Number	Comments
EuCl ₃ ·6H ₂ O	Sigma-Aldrich	203254-5G	
p-SCN-Bn-DTPA	Macrocyclics	B-305	
ammonium hydroxide	EMD Millipore	AX1303-3	
Spectra/Por Biotech Cellulose Ester (CE) Dialysis Membrane - 500 D MWCO	Fisher Scientific	68-671-24	
Millipore IC Millex-LG Filter Units	Fisher Scientific	SLLG C13 NL	
xylene orange tetrasodium salt	Alfa Aesar	41379	
acetic acid	Fluka	49199	
D ₂ O	Cambridge Isotope Laboratories	DLM-4-25	
water purifier	ELGA	Purelab Ultra	
high performance liquid chromatography and mass spectrometry	Shimadzu Corporation	LCMS-2010EV	
relaxation time analyzer	Bruker Corporation	mq60 minispec	
UV-vis spectrophotometer	Fisher Scientific	20-624-00092	
freeze dryer	Fisher Scientific	10-030-133	
pH meter	Hanna Instruments	HI 221	
spectrofluorometer	Horiba Instruments Inc	Fluoromax-4	
Molecular Weight Calculator version 6.46 by Matthew Monr-, downloaded October 17, 2009	 http://ncrr.pnl.gov/software/	Molecular Weight Calculator	