

Materials List for:

# Characterization of Synthetic Polymers via Matrix Assisted Laser Desorption Ionization Time of Flight (MALDI-TOF) Mass Spectrometry

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URL: <https://www.jove.com/video/57174>

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## Materials

Name	Company	Catalog Number	Comments
polyoxyethylene bis(azide) (Mn=2000)	MilliporeSigma (Aldrich)	689696	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/689696?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/689696?lang=en&amp;region=US</a>
poly(ethylene glycol) 2-amino-ethyl ether acetic acid (Mn= 5000)	MilliporeSigma (Aldrich)	757918	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/757918?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/757918?lang=en&amp;region=US</a>
poly(L-lactide), thiol terminated (Mn=2500)	MilliporeSigma (Aldrich)	747386	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/747386?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/747386?lang=en&amp;region=US</a>
SpheriCal® peptide low	MilliporeSigma (Sigma-Aldrich)	PFS20	<a href="http://www.sigmaaldrich.com/catalog/product/sial/pfs20?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sial/pfs20?lang=en&amp;region=US</a>
SpheriCal® peptide medium	MilliporeSigma (Sigma-Aldrich)	PFS21	<a href="http://www.sigmaaldrich.com/catalog/product/sial/pfs21?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sial/pfs21?lang=en&amp;region=US</a>
SpheriCal® peptide high	MilliporeSigma (Sigma-Aldrich)	PFS22	<a href="http://www.sigmaaldrich.com/catalog/product/sial/pfs22?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sial/pfs22?lang=en&amp;region=US</a>
2,4 dinitrofluorobenzene	TCI	A5512	
maleimide	MilliporeSigma (Aldrich)	129585	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/129585?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/129585?lang=en&amp;region=US</a>
1-ethynylfluorobenzene	Fisher Scientific	766-98-3	
triethylamine	MilliporeSigma (Sigma-Aldrich)	471283	<a href="http://www.sigmaaldrich.com/catalog/product/sial/471283?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sial/471283?lang=en&amp;region=US</a>
N,N,N',N'',N'''-pentamethyldiethylenetriamine	MilliporeSigma (Aldrich)	369497	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/369497?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/369497?lang=en&amp;region=US</a>
Copper(I)Bromide	MilliporeSigma (Aldrich)	254185	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/254185?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/254185?lang=en&amp;region=US</a>
glacial acetic acid	Fisher Scientific	A38212	
sodium metabisulfite	MilliporeSigma (Sigma-Aldrich)	13459	<a href="http://www.sigmaaldrich.com/catalog/product/sigald/13459?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sigald/13459?lang=en&amp;region=US</a>
potassium trifluoroacetate	MilliporeSigma (Aldrich)	281883	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/281883?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/281883?lang=en&amp;region=US</a>
trans-2-[3-(tert-butylphenyl)-2-methyl-2-properylidene]malononitrile	MilliporeSigma (Aldrich)	727881	<a href="http://www.sigmaaldrich.com/catalog/product/aldrich/727881?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/aldrich/727881?lang=en&amp;region=US</a>

a-cyano-4-hydroxycinnamic acid	MilliporeSigma (Sigma)	C8982	<a href="http://www.sigmaaldrich.com/catalog/product/sigma/c8982?lang=en&amp;region=US">http://www.sigmaaldrich.com/catalog/product/sigma/c8982?lang=en&amp;region=US</a>
tetrahydrofuran	Fisher Scientific	T425-1	
dichloromethane	VWR Analytical	BDH1113-4LG	