

Materials List for:

## A Tailored HPLC Purification Protocol That Yields High-purity Amyloid Beta 42 and Amyloid Beta 40 Peptides, Capable of Oligomer Formation

Christopher J. A. Warner<sup>1</sup>, Subrata Dutta<sup>1</sup>, Alejandro R. Foley<sup>1</sup>, Jevgenij A. Raskatov<sup>1</sup>

<sup>1</sup>Department of Chemistry, University of California, Santa Cruz

Correspondence to: Jevgenij A. Raskatov at [jaskato@ucsc.edu](mailto:jaskato@ucsc.edu)

URL: <https://www.jove.com/video/55482>

DOI: [doi:10.3791/55482](https://doi.org/10.3791/55482)

### Materials

Name	Company	Catalog Number	Comments
Agilent 1260 Infinity II quaternary pump	Agilent	G7111B	<a href="http://www.agilent.com/en-us/products/liquid-chromatography/lc-pumps-vacuum-degassers/1260-infinity-ii-quaternary-pump">http://www.agilent.com/en-us/products/liquid-chromatography/lc-pumps-vacuum-degassers/1260-infinity-ii-quaternary-pump</a>
Agilent 1260 Infinity II Dual variable wavelength detector	Agilent	G7114A	<a href="http://www.agilent.com/en-us/products/liquid-chromatography/lc-detectors/1260-infinity-ii-variable-wavelength-detector">http://www.agilent.com/en-us/products/liquid-chromatography/lc-detectors/1260-infinity-ii-variable-wavelength-detector</a>
Agilent 1260 Infinity II Manual Injector fitted with 10 mL stainless steel sample loop	Agilent	0101-1232	<a href="http://www.agilent.com/en-us/products/liquid-chromatography/lc-injection-systems/1260-infinity-ii-manual-injector">http://www.agilent.com/en-us/products/liquid-chromatography/lc-injection-systems/1260-infinity-ii-manual-injector</a>
Agilent 1260 Infinity II Manual Injector fitted with 20 µL stainless steel sample loop	Agilent	G1328C	<a href="http://www.agilent.com/en-us/products/liquid-chromatography/lc-injection-systems/1260-infinity-ii-manual-injector">http://www.agilent.com/en-us/products/liquid-chromatography/lc-injection-systems/1260-infinity-ii-manual-injector</a>
Ring Stand Mounting Bracket	Agilent	1400-3166	
Agilent PLRP-S 300 Å 5 µm 4.6 x 250 mm (Analytical)	Agilent	PL1512-5501	<a href="http://www.agilent.com/en-us/products/liquid-chromatography/lc-columns/biomolecule-separations/plrp-s-for-biomolecules#features">http://www.agilent.com/en-us/products/liquid-chromatography/lc-columns/biomolecule-separations/plrp-s-for-biomolecules#features</a>
Aβ42 or Aβ40 peptide			Synthesized in-house using a CEM liberty automated peptide synthesizer.
Ammonium Hydroxide (NH <sub>4</sub> OH, 28% solution)	Fisher Scientific	A669-500	
Acetonitrile	Fisher Scientific	A998-4	
HPLC grade water	Fisher Scientific	W5-4	
Falcon 50 mL conical centrifuge tube	Fisher Scientific	14-954-49A	
Supelco PEEK Fitting One-piece fingertight, pkg of 5 ea	Sigma-Aldrich	Z227250	
Normject 5 cc sterile syringe	Fisher Scientific	1481729	
16 Gauge SS Needle	Rheodyne	3725-086	