

Materials List for:

Monitoring the Reductive and Oxidative Half-Reactions of a Flavin-Dependent Monooxygenase using Stopped-Flow Spectrophotometry

Elvira Romero¹, Reeder Robinson¹, Pablo Sobrado¹

¹Department of Biochemistry, Virginia Polytechnic Institute and State University

Correspondence to: Pablo Sobrado at psobrado@vt.edu

URL: <https://www.jove.com/video/3803>

DOI: [doi:10.3791/3803](https://doi.org/10.3791/3803)

Materials

Name	Company	Catalog Number	Comments
Vacuum pump	Welch Allyn	-	
Büchner flasks	Fisher Scientific	70340-500	
Stir bars	Fisher Scientific	14-512-129	
Stir plates	Fisher Scientific	11-100-49S	
Schlenk lines	Kontes Corp	-	
Argon tank	Airgas	AR UPC300	
Nitrogen tank	Airgas	NI200	
Nitrogen tank, ultra high purity grade	Airgas	NI UHP200	
Oxygen tank	Airgas	OX 40	
5% Hydrogen balance nitrogen tank	Airgas	X02NI95B200H998	
SX20 Stopped-flow spectrophotometer	AppliedPhotophysics	-	
Glove box	Coy Laboratories, Inc.	-	
Water bath	Lauda Brinkmann	-	
50 mL BD Falcon tubes	Fisher Scientific	14-432-23	
15 mL BD Falcon conical tubes	Fisher Scientific	05-527-90	
1.5 mL Eppendorf microcentrifuge tubes	Fisher Scientific	05-402-18	
50 and 25 mL glass vials	Fisher Scientific	06-402	
Rubber stoppers	Fisher Scientific	06-447H	
Aluminum seals	Fisher Scientific	06-406-15	
Potassium phosphate, monobasic	Fisher Scientific	AC2714080025	
Potassium phosphate, dibasic	Fisher Scientific	P288-500	
Sodium acetate	Sigma-Aldrich	S-2889	
Glucose oxidase from <i>A. niger</i>	Sigma-Aldrich	G7141-250KU	
D-Glucose	Fisher Scientific	D16-500	
β -NADPH	Fisher Scientific	ICN10116783	
L(+)-Ornithine hydrochloride	Fisher Scientific	ICN10116783	