

Materials List for

# Determination of the Photoisomerization Quantum Yield of a Hydrazone Photoswitch

Myeongsu Jeong<sup>\*1</sup>, Jiyeon Park<sup>\*1</sup>, Kwongjung Lee<sup>\*1</sup>, Sunbum Kwon<sup>1</sup><sup>1</sup>Department of Chemistry, Chung-Ang University

\*These authors contributed equally

## Corresponding Author

Sunbum Kwon

skwon@cau.ac.kr

## Citation

Jeong, M., Park, J., Lee, K., Kwon, S. Determination of the Photoisomerization Quantum Yield of a Hydrazone Photoswitch. *J. Vis. Exp.* (180), e63398, doi:10.3791/63398 (2022).

## Date Published

February 7, 2022

## DOI

10.3791/63398

## URL

jove.com/video/63398

## Materials

Name	Company	Catalog Number	Comments
1,10-phenanthroline	Sigma-Aldrich	131377-2.5G	
340 nm bandpass filter, 25 mm diameter, 10 nm FWHM	Edmund Optics	#65-129	
436 nm bandpass filter, 25 mm diameter, 10 nm FWHM	Edmund Optics	#65-138	
Anhydrous sodium acetate	Alfa aesar	A13184.30	
Dimethyl sulfoxide	Samchun	D1138	HPLC grade
Dimethyl sulfoxide-d6	Sigma-Aldrich	151874-25g	
Gemini 2000; 300 MHz NMR spectrometer	Varian		
H <sub>2</sub> SO <sub>4</sub>	Duksan	235	
Heating bath	JeioTech	CW-05G	
MestReNova 14.1.1	Mestrelab Research S.L., <a href="https://mestrelab.com/">https://mestrelab.com/</a>		
Natural quartz NMR tube	Norell	S-5-200-QTZ-7	
Potassium ferrioxalate trihydrate	Alfa aesar	31124.06	
Quartz absorption cell	Hellma	HE.110.QS10	
UV-VIS spectrophotometer	Scinco	S-3100	
Xenon arc lamp	Thorlabs	SLS205	Fiber adapter was removed