

Materials List for:

Proton Transfer and Protein Conformation Dynamics in Photosensitive Proteins by Time-resolved Step-scan Fourier-transform Infrared Spectroscopy

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Materials

Name	Company	Catalog Number	Comments
FT-IR spectrometer	Bruker	Vertex 80v	Equipped with photovoltaic-MCT detector, an external global, and an oil-free pump. Firmware 2.3.
BaF ₂ windows	korth Kristalle		
Diamond ATR accesory	Smiths detection		Nine-reflection DuraDisk
Thermostatic bath	Julabo	F25	
Vibration decoupled table	OPTA		
Pulsed Nd:YAG laser with a second harmonic generator	Continuum electro-Optics	Minilite	
Optical parametric oscillator (OPO)	OPTA	BBO-355-VIS/IR S/N 1009	
Digital delay/pulse generator	Stanford Research Systems	DG535	
Pulsed Nd:YAG laser with a third harmonic generator	Spectra-Physics	Quanta-Ray	
Various optical mirrors and lenses	ThorLabs		
OPUS 7.0	Bruker		Software to control Vertex 80v spectrometer
MATLAB run time	Mathworks		Used to run home-made executable programs to preprocess the data