

Materials List for

Neutron Crystallography Data Collection and Processing for Modelling Hydrogen Atoms in Protein Structures

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Citation

Schröder, G.C., Meilleur, F. Neutron Crystallography Data Collection and Processing for Modelling Hydrogen Atoms in Protein Structures. *J. Vis. Exp.* (), e61903, doi:10.3791/61903 (2020).

Date Published

December 1, 2020

DOI

10.3791/61903

URL

jove.com/video/61903

Materials

Name	Company	Catalog Number	Comments
Absorbent Paper Points Size #30-#40, 60 mm length	DiaDent/DiaVet	218-292	
Capillary wax	Hampton	HR4-328	
CCP4		Version 7.0.077	
Conical Centrifuge Tubes (15 mL)	Corning	CLS430790	
Conical Centrifuge Tubes (50mL)	Corning	CLS430828	
Coot		Version 0.8.9.2	
CrystalCap ALS	Hampton	HR4-779	
Curved-Tip Forceps	Mitegen	TW-CTF-1	
Deuterium chloride solution, 35 wt. % in D ₂ O, ≥99 atom % D	Sigma-Aldrich	543047	
Deuterium oxide 99.9 atom % D	Sigma-Aldrich	151882	
Dual Thickness MicroLoops 1000 µm	Mitegen	M5-L18SP-1000	
FiveEasy pH meter F20-Std-Kit	Mettler Toledo	30266626	
Foam Dewars Standard Vessel 800 ml	Spearlab	M-FD-800	
Four Color Mounting Clay	Hampton	HR4-326	
HEPES, BioUltra, for molecular biology, ≥99.5% (T),	Sigma-Aldrich	54457	
High flux rotating anode X-ray diffractometer with EIGER 4M detector	Rigaku, Oxford Cryostream and Dectris	XtaLAB Synergy-R	Home source X-ray diffractometer
Magnetic Wand Straight	Mitegen	M-R-1013198	
Microloader, tip for filling Femtotips and other glass microcapillaries (for research use only), 0.5 – 20 µL, 100 mm, light gray, 192 pcs. (2 racks × 96 pcs.)	Eppendorf	930001007	
Microtubes volume 1.5 mL	Eppendorf	Z606340	
Petri Dishes with Clear Lid 100 mm diameter	Fischerbrand	FB0875713	

Phenix		Version 1.14-3260	
Pin Tong 18 mm	Mitegen	M-R-1013196	
Pipette Volume 0.1-2.5 μ L	Eppendorf Research	Z683779	
Pipette Volume 100-1000 μ L	Eppendorf Research	Z683825	
Pipette Volume 10-100 μ L	Eppendorf Research	Z683809	
Pipette Volume 20-200 μ L	Eppendorf Research	Z683817	
Poly(ethylene glycol) BioXtra, average mol wt 3,350, powder	Sigma-Aldrich	P4338	
Quartz Capillary , 1.00 mm inner diameter, 80 mm length	Hampton	HR6-146	Thin-walled capillary
Research Stereomicroscope System	Olympus	SZX16	
Reusable B3 (SSRL/SAM Style) Goniometer Bases	Mitegen	GB-B3-R	
Round - Miniature Hollow Glass Tubing (VitroTubes) Clear Fused Quartz / 1.00 mm inner diameter, 100 mm length	VitroCom	CV1012	Thick-walled capillary
Sandwich Box with cover	Hampton	HR3-132	
Siliconized 9 Well Glass Plate	Hampton	HR3-134	
Sitting Drop Crystallization Plate (24 Big Well)	Mitegen	XQ-P-24S-A	
Sodium deuterioxide solution, 40 wt. % in D ₂ O, 99 atom % D	Sigma-Aldrich	176788	
Thick Siliconized circle cover slides (22 mm x 0.96 mm)	Hampton	HR3-247	
Universal Pipet Tips, 0.1 - 10 μ L	VWR	76322-528	
Universal Pipet Tips, 1 - 100 μ L	VWR	76322-136	
Universal Pipet Tips, 100 - 1000 μ L	VWR	76322-154	
Universal Pipet Tips, 20 - 200 μ L	VWR	76322-150	
Universal Pipet Tips, 1 - 20 μ L	VWR	76322-134	
Wax pen	Hampton	HR4-342	