



Shipment of Crystal Sample

Beamline 4.2.2

Multiple-Wavelength Anomalous Diffraction (MAD) and Monochromatic Protein Crystallography

Operational	Now
Source characteristics	Superbend
Energy range	5-17 keV
Monochromator	Double crystal
Calculated flux (1.9 GeV, 400 mA)	2.4×10^{11} photons/s at 12 keV
Resolving power ($E/\Delta E$)	7000 with Si(111) crystals

Endstations	Minihutch
Detectors	"NOIR-1" MBC system
Spot size at sample (FWHM)	50 x125 μm
Samples	
Format	Single crystals of biological molecules
Preparation	Support labs available; most samples pre-frozen
Sample environment	Ambient or ~ 100 K
Special notes	Computers for data processing and analysis are available
Scientific applications	Molecular biology; multiple-wavelength anomalous diffraction (MAD),

monochromatic protein crystallography

Local contact

[Jay Nix](#)

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Spokesperson

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1. Mail Dr. Jay Nix (JCNix@lbl.gov) to confirm the date to shipping your sample.

2. Shipment of sample by FedEx on Monday or Tuesday.

FedEx To

- Recipient's name: Jay Nix
- Phone: 510.486.6652
- Company: Molecular Biology Consortium Advanced Light Source BL 4.2.2
- Address: 1 Cyclotron Rd BLDG 69
- City: BERKELEY
- State Province: CA
- Country: USA
- ZIP Postal Code: 94720

Shipment Information

- Packages, Weight, and size
- Commodity Description:
- w/NON-HAZARDOUS SAMPLES NON-TOXIC RESEARCH PURPOSE
- Country of Manufacture: TW or your country
- Value for Customs: < \$50,000 NTD (no customs)

3. Tracking your sample is on the way.

4. Confirm with Jay and arrange beamtime.

5. During beamtime contact with Jay by Skype.