Sample environment at BL13-XALOC beamline

BL13-XALOC beamline is equipped with the following instrumentation around the sample to efficiently perform Macromolecular Crystallography experiments:

Equipment	Equipment type	Comments
Detector	Dectris Pilatus 6M	
Diffractometer	Maatel MD2M, single axis	Horizontal omega axis
	Maatel mini-kappa stage on request	2 axis (kappa, phi) Removable
Cryostream	Oxford Cryosystems 700	
Automatic sample mounting system	Irelec CATS	90-sample storage capacity
Fluorescence detector	Bruker XFlash 410-SA	
Microscope	Motic SMZ168 Stereo Zoom Microscope	
Cryogenic tooling	Dewars of several sizes and usages, Cryotong, CrystalWand, VialClamp, tweezers, protection equipment	
Data Storage on site	Granted for 6 months	may be extended upon request
Backup systems	external hard disks (preferred), sftp	

The sample handling standards used in XALOC are listed below:

Item	Types supported	Comments
Caps/Vials	Only **SPINE caps/vials** are supported. For now, only **Molecular Dimensions SPINE caps/vials** (for example MD7-406) will be loaded into the CATS sample changer. Other brands are accepted for manual mounting.	
Pin length	22 mm pin length is strongly recommended (SPINE standard) Any common brand for the pins is allowed (Hampton, MD, MiTeGen, etc).	If you bring longer or shorter pins, make sure to bring an empty pin to test the position of the cryostream before mounting your samples.
Cassettes (pucks)	Only 10-sample SPINE (ESRF/EMBL) cassettes (pucks/baskets) are supported for automatic mounting in the CATS sample changer.	9 cassettes (90 samples) can be loaded at a time.
Capillaries	Capillaries need to be mounted on a magnetic SPINE cap	
Crystallization plates	Not supported yet	In the future: Greiner 96 wells, 3 drop wells MRC 96 wells, 2 drop wells Fluidigm topaz 1.96

A laboratory is available close to the beamline for usual last-minute sample preparation, soakings, etc.

Visit www.cells.es/Beamlines/XALOC/Experiment for updated information.