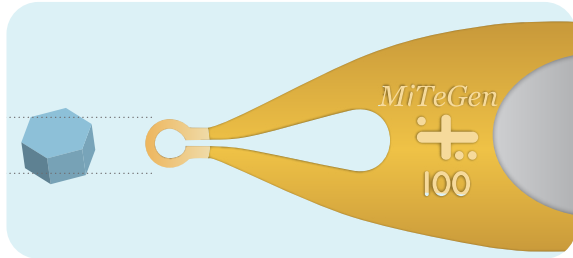


Tips for Using MicroMounts

Diffraction quality starts with your choice of mount

MiTeGen MicroMounts

1. Select a mount with an aperture slightly smaller than your crystal.



2. Remove your mount from its box with tweezers by securely grasping the pin just beneath the mount.

3. Insert the selected mount into a reusable base.

4. Gently mount your crystal on the aperture, freeze and/or place on goniometer head.

5. For additional Crystal Harvesting Tips see the tech-notes section on our website-



Handling and Care Tips

MiTeGen MicroMounts

- Never touch tips with fingers. Use serrated-end tweezers for handling MicroMount rods.
- Avoid pressing the tips against hard surfaces.
- Clean tips by soaking in detergent solution. Do not sonicate for >30 sec, or damage can occur.
- Dry tips after cleaning by letting air dry in base holder. Avoid blowing with compressed air, and never do so with the nozzle closer than 20 cm.

Using Reusable Bases

MiTeGen Reusable Bases

- No glue required
- Change loops in <10 sec

1. Remove your mount from its box with tweezers by securely grasping the pin just beneath the mount.
2. Insert the pin into the base firmly. Be sure to insert straight down and not at an angle.
3. Slowly rotate the base and guide the pin all the way into the base.
4. Avoid dragging along edges to prevent damage to the Internal gripping material.
5. Only compatible with MiTeGen Braned crystal mounts



MiTeGen Magnetic Cryovials

When plunge freezing crystals into liquid nitrogen (LN2), CryoVials can help keep your samples cold during transfer from the dewar to the cold gas stream. They can also provide protection against sample damage or loss due to sloshing within a storage dewar.

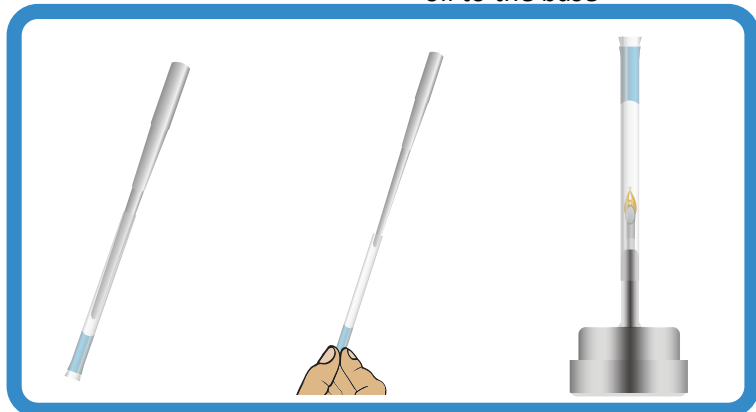
Place the CryoVial open end up into LN2 using a pair of vial-tongs. Allow the CryoVial to fill with liquid nitrogen. The sample can then plunge cooled and inserted into the open end of the CryoVial. The ring magnet will securely hold the reusable base within the CryoVial.

LV CryoOil



Carfully move your sample back and forth in the oil until surface water is removed. Minimize ice rings and protect your sample from dehydration. Excess oil can be removed by wicking or by gently tapping the mount, leaving a very thin coating. Minimize backgroundx-ray scatter, thermal mass, and thermal stresses. Idea for protecting small crystals. When used with fast cooling protocols,

1. To prepare a sample, inject 10-40 μ L of solution, all the way down to the sealed end of the Mico tube leaving no gas bubble.
2. Working under a microscope, carefully draw the polyester tubing down over the crystal and mount and onto the goniometer base. To seal the crystal in for several hours apply a tiny amount of grease (Dow-corning #976V) or oil to the base



MiTeGen

CSK-2

Protein Crystallography Starter Kit

Includes:

- (1) MicroMounts Assortment of 20 mounts, (M2-L18SP-A2)
- (10) Reusable B3S bases, (GB B3S-R)
- (10) cryovials, (CV-10)
- (1) tweezers, (TW-1)
- (1)CryoOil (LVCO-1)
- (1) MicroRT™ Tubing Kit (RT-T1)