

Instructions for mPrep™ Immersion Holder for Tousimis Critical Point Dryer

Features:

- Holds mPrep/g (grid processing) and mPrep/s (specimen processing) capsules during critical point processing.
- Fits Tousimis Samdri® Critical Point Dryers with 31.75 mm (1.25") diameter by 31.75 mm (1.25") deep chambers, or larger.
- Holds six mPrep/g or mPrep/s capsules in any combination.
- Up to 12 grids can be processed in CPD unit, using six mPrep/g capsules.
- Efficient and rapid exchange of ethanol and CO₂.
 - *Top has large openings to direct inflow into mPrep capsules.*
 - *Base drains at periphery to maximize outflow.*
- Base holds mPrep capsules in indexed positions.
- Thumbscrew retained to top to reduce chance of loss.
- Durable nickel-plated solid brass and stainless steel.



Important to note:

- *Grids are retained by the mPrep/g capsules, and not by the Immersion Holder.*
- *Specimens are retained by the mPrep/s capsules, and not by the Immersion Holder.*
- *See instructions for mPrep/g and mPrep/s capsules, if necessary.*

Instructions

Equipment Needed

- **mPrep Immersion Holder**
- **mPrep capsules**, either:
 - *mPrep/g capsules with grids inserted, fixed and dehydrated for critical point drying (CPD).*
 - *mPrep/s capsules with specimens ready for CPD.*
- **Tousimis Samdri unit** or similar critical point apparatus.
- **Beaker** or similar vessel to immerse Immersion Holder in ethanol.
- **Ethanol** — absolute 100% water-free ethanol.



1. Place Immersion Holder base in sufficient ethanol to ensure specimens and grids remain immersed (not shown).
2. Fully insert mPrep/g or mPrep/s capsules into holes in Immersion Holder base. This may be done by ejection from pipettor.
3. For mPrep/g capsules, orient hinged caps close to base. Make sure hinges don't overlie adjacent capsules (as shown).
4. Place cover on Immersion Holder base to retain capsules (as shown) and finger-tight thumbscrew.
5. Transfer assembled Immersion Holder into critical point apparatus chamber. Chamber should be pre-filled with ethanol to ensure specimens are covered. As necessary, add additional ethanol.
6. Place critical point apparatus lid on chamber and, as necessary, bend any mPrep/g capsule hinged lids to enable proper fit of critical point apparatus lid.
7. Process specimens and grids through the critical point using instructions from the critical point apparatus manufacturer.
8. Remove mPrep capsules from the Immersion Holder.
9. Grids and specimens will remain safely stored in mPrep capsules until removal for mounting, conductive coating, or imaging. Grids may be returned to their mPrep/g capsules for archival storage.



With cover removed, showing 3 mPrep/g capsules and 3 mPrep/s capsules.



With cover in place.

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