

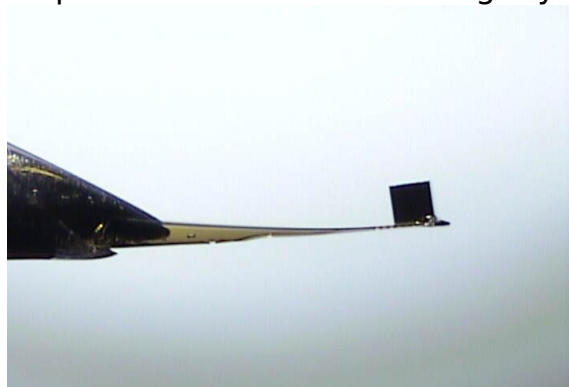
Testing commercial protein crystallography sample mounting loops for movement in the cold-stream – Supplementary Material

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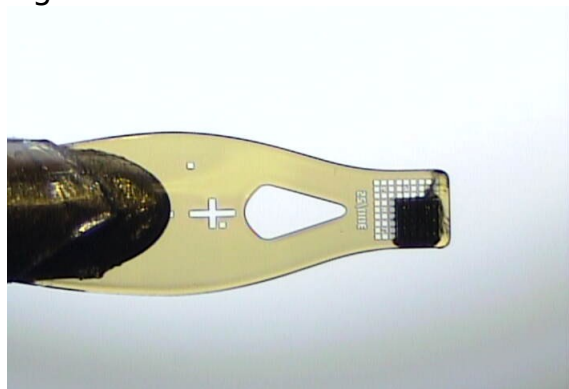
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1. MiTeGen MicroMesh loop in three different orientations with grease-mounted silicon single crystal used for Figure 4.

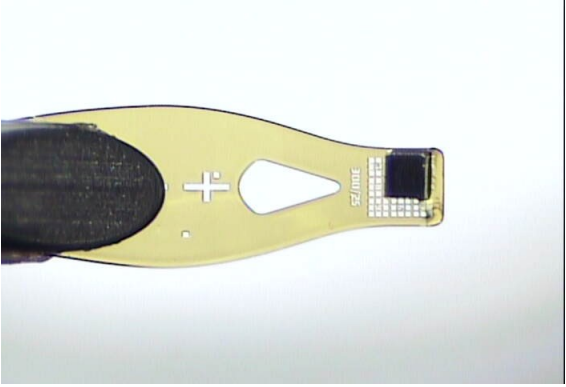
Edge orientation: Edges of the loop are aligned parallel to the flow of oncoming gas. This alignment was used for Figure 4a. Note the sides of the loop at the metal base are slightly curled.



Convex orientation: In this orientation the curled edges of the loop are pointed away from the flow of oncoming gas. This alignment was used for Figure 4b.



Concave orientation: In this orientation the edges of the loop are curled toward the oncoming flow of the cold-stream gas. This orientation was used for Figures 4c and 4d.



2. Crystals of tetragonal lysozyme in loops that displayed no motion.

Loops that displayed no motion while in the cold-stream gas, according to the two criteria presented in the paper, were the MiTeGen Microloop HT, MiTeGen Dual Thickness Microloop, Litholoop Mesh and the Litholoop. Below are photos of the tetragonal lysozyme crystals mounted in the loops used for the data presented in Table 2.

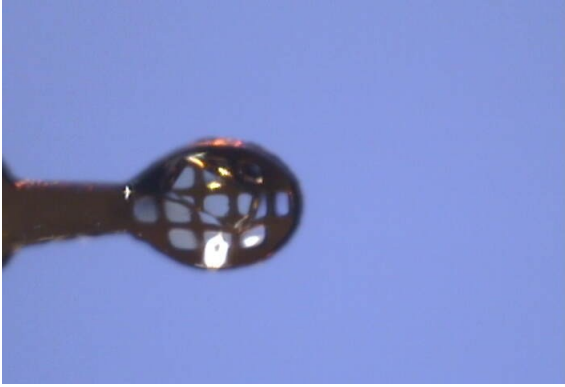
MiTeGen Microloop HT



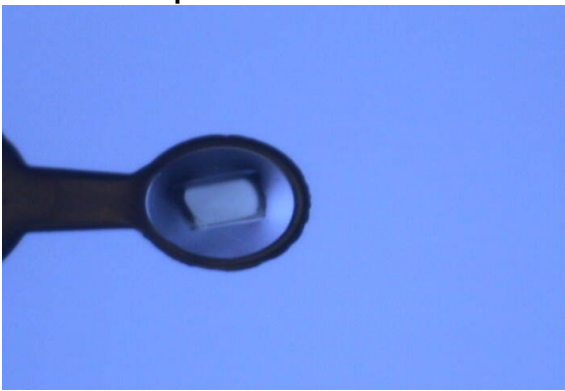
MiTeGen Dual Thickness Microloop



Litholoop Mesh



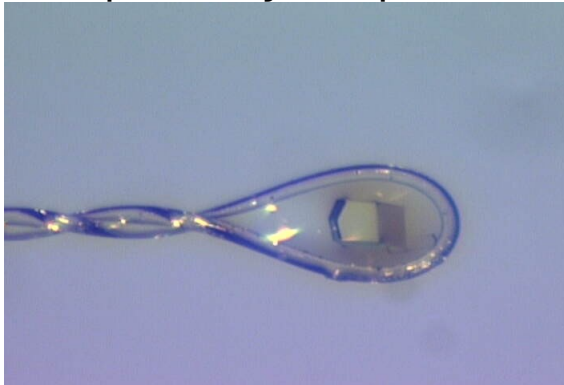
Litholoop



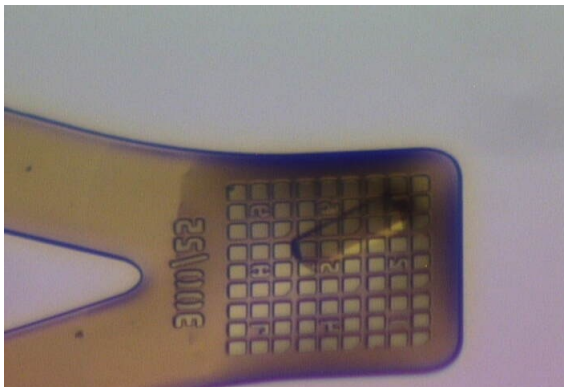
3. Crystals of tetragonal lysozyme in loops that gave evidence of motion.

Loops that displayed motion while in the cold-stream gas, according to the two criteria presented in the paper, were the Hampton Cryoloop, MiTeGen MicroMesh, MiTeGen Microloop and the MiTeGen Microloop LD. Below are photos of the tetragonal lysozyme crystals mounted in the loops used for data presented in Table 3.

Hampton Cryoloop



MiTeGen MicroMesh



MiTeGen Microloop



MiTeGen Microloop LD

