

技術資料・データ等

構造生物学研究用各種ツール

蛋白質結晶マウント・測定用ツール

○ **ActiLoops**

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ActiLoopsの結晶マウント時における 母液除去効果

— 界面活性剤の添加効果 —

Effect of detergent addition on the draining of looped-out cryobuffers in ActiLoops

1. Cryogenetic apparatus

X-ray source: RIGAKU RAXIS7/FR-E

Temperature: 100K

2. Cryobuffers

(1) Cryobuffer without detergent

20mM Tris-HCl pH8.0, 300mM NaCl, 28% PEG4,000

(2) Cryobuffer with detergent

20mM Tris-HCl pH8.0, 300mM NaCl, 28% PEG4,000,
0.2% n-Octyl- β -D-maltoside (OM)

3. Cryomount loops

ActiLoops: loop diameter = 0.1mm, 0.2mm, 0.3mm

film thickness = 25 μ m(bottom layer), 25 μ m(top layer)

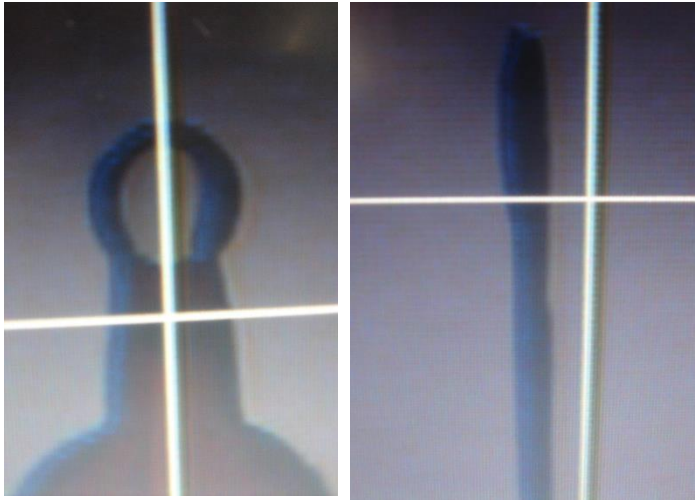
LithoLoops: loop diameter = 0.1mm, 0.2mm, 0.3mm

film thickness = 25 μ m

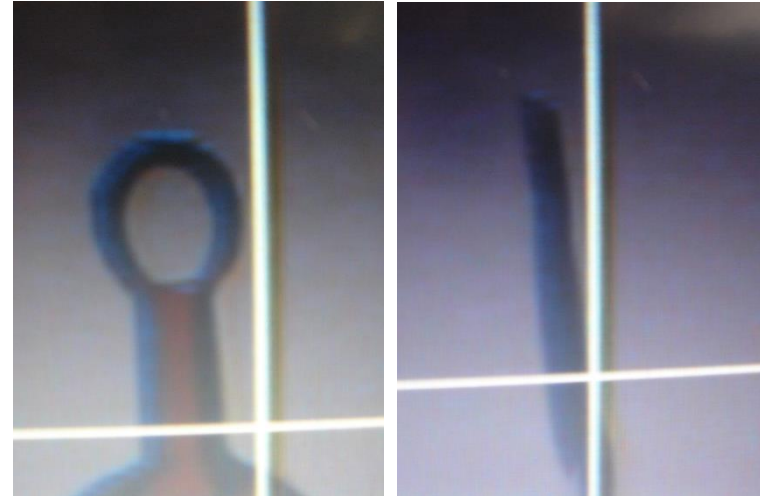
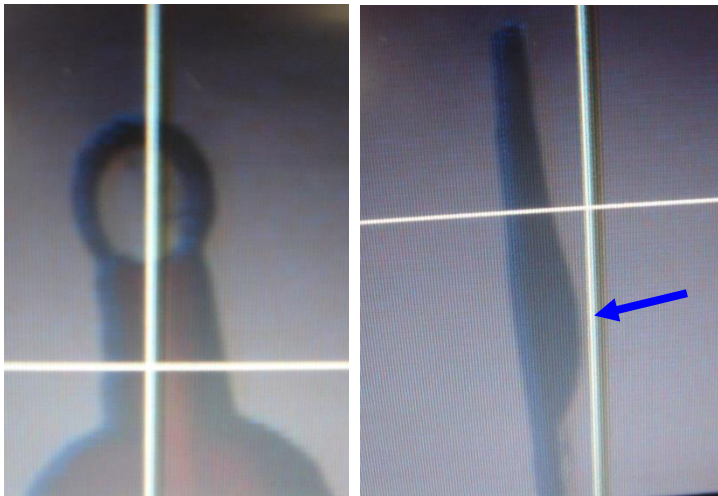
ActiLoops 0.1mm

LithoLoops 0.1mm

without
detergent



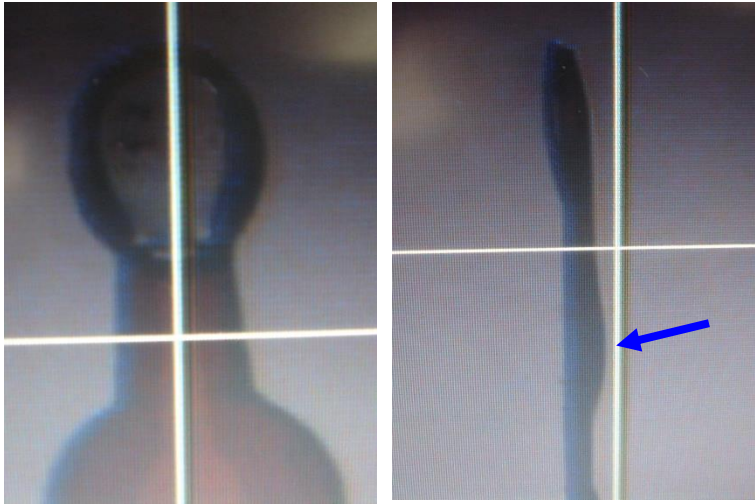
with
detergent



ActiLoops 0.2mm

LithoLoops 0.2mm

without
detergent



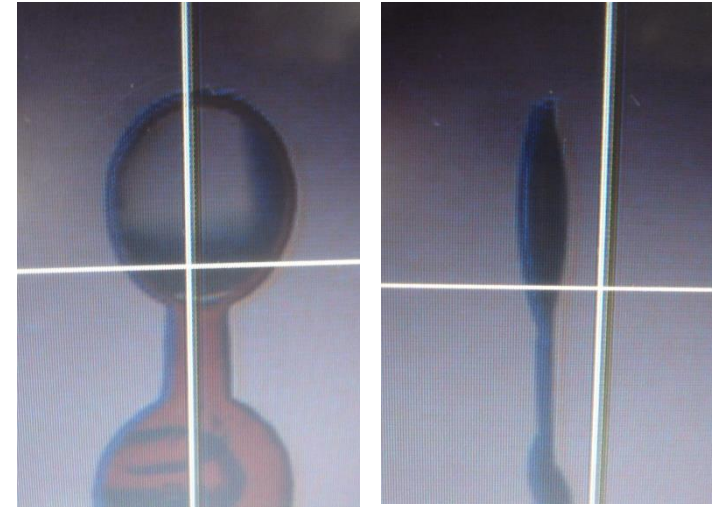
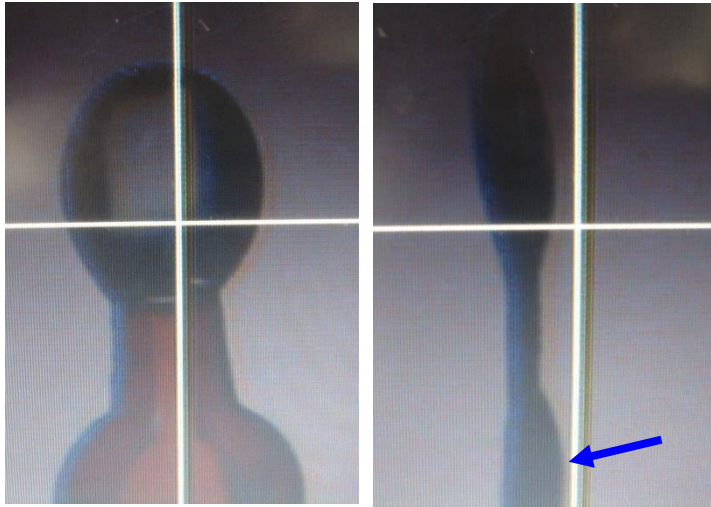
with
detergent



ActiLoops 0.3mm

LithoLoops 0.3mm

without
detergent



with
detergent

