

Materials List for:

Improving the Success Rate of Protein Crystallization by Random Microseed Matrix Screening

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Materials

Name	Company	Catalog Number	Comments
MRC 96 well crystallization trays	Molecular Dimensions Ltd	MD11-00-100	Non-UV compatible, for screens established by robot
ClearView sealing sheets	Molecular Dimensions Ltd	MD6-01S	
Hen egg white lysozyme	Sigma-Aldrich	L6876	~95% purity
Bovine liver catylase	Sigma-Aldrich	C9322	>95% purity
Xylanase	Hampton Research	HR7-104	
Thaumatococcus daniellii	Sigma-Aldrich	T7630	
Thermolysin from Bacillus thermoproteolyticus rokko	Sigma-Aldrich	P1512	
JCSG-plus HT-96 screen	Molecular Dimensions Ltd	MD1-40	For screens established by robot
PACT premier HT-96 screen	Molecular Dimensions Ltd	MD1-36	For screens established by robot
Morpheus HT-96 screen	Molecular Dimensions Ltd	MD1-47	For screens established by robot
Crystal Ph-nix liquid handling system	Art Robbins Instruments	602-0001-10	
Seed bead kit	Hampton Research	HR2-320	
Binocular stereo microscope	Leica	M165C	
Scalpel blades	Sigma-Aldrich	S2646-100EA	
ErgoOne 0.1-2.5 µl pipette	Starlab	S7100-0125	
ErgoOne 2-20 µl pipette	Starlab	S7100-0221	
ErgoOne 100-1000 µl pipette	Starlab	S7100-1000	
JCSG-plus screen	Molecular Dimensions Ltd	MD1-37	For screens established by hand
PACT premier screen	Molecular Dimensions Ltd	MD1-29	For screens established by hand
Morpheus screen	Molecular Dimensions Ltd	MD1-46	For screens established by hand
Tweezers	Sigma-Aldrich	T5415-1EA	
CrystalClene coverslips 18 mm	Molecular Dimensions Ltd	MD4-17	
2 ml glass Pasteur pipettes	Sigma-Aldrich	Z722669	
Vortex mixer	Fisher Scientific	02-215-360	
24 well XRL crystallization tray	Molecular Dimensions Limited	MD3-11	For screens established by hand
30% (w/v) PEG 8000, 0.2 M ammonium sulfate, 0.1 M sodium cacodylate pH 6.5			
20% (w/v) PEG 8000, 0.2 M magnesium acetate, 0.1 M sodium cacodylate pH 6.5			

20% (w/v) PEG 6000, 100 mM citric acid pH 5.0			
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