

## JBS Crystallization Freshman Kit – Scholar

Cat.-No: CSK-102

Get a head start crystallizing your protein  
JBScreen Classic 1

Number	Precipitant 1	Precipitant 2	Buffer	pH	Additive
<b>A 1</b>	15 % w/v PEG 400	None	100 mM Sodium Acetate	4.6	100 mM Calcium Chloride
<b>A 2</b>	15 % w/v PEG 400	None	100 mM MES Sodium Salt	6.5	None
<b>A 3</b>	15 % w/v PEG 400	None	100 mM HEPES Sodium Salt	7.5	200 mM Magnesium Chloride
<b>A 4</b>	15 % w/v PEG 400	None	100 mM Tris-HCl	8.5	200 mM Sodium Citrate
<b>A 5</b>	25 % w/v PEG 400	None	100 mM Sodium Acetate	4.6	100 mM Magnesium Chloride
<b>A 6</b>	25 % w/v PEG 400	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate
<b>B 1</b>	28 % w/v PEG 400	None	100 mM HEPES Sodium Salt	7.5	200 mM Calcium Chloride
<b>B 2</b>	30 % w/v PEG 400	None	100 mM Sodium Acetate	4.6	100 mM Calcium Chloride
<b>B 3</b>	30 % w/v PEG 400	None	100 mM MES Sodium Salt	6.5	100 mM Sodium Acetate
<b>B 4</b>	30 % w/v PEG 400	None	100 mM MES Sodium Salt	6.5	100 mM Magnesium Chloride
<b>B 5</b>	30 % w/v PEG 400	None	100 mM HEPES Sodium Salt	7.5	200 mM Magnesium Chloride
<b>B 6</b>	30 % w/v PEG 400	None	100 mM Tris-HCl	8.5	200 mM Calcium Citrate
<b>C 1</b>	30 % w/v PEG 550 MME	None	100 mM Bicine	9.0	100 mM Sodium Chloride
<b>C 2</b>	28 % w/v PEG 550 MME	None	100 mM MES Sodium Salt	6.5	10 mM Zinc Sulfate
<b>C 3</b>	25 % w/v PEG 1000	None	100 mM HEPES Sodium Salt	7.5	None
<b>C 4</b>	30 % w/v PEG 1000	None	100 mM Tris-HCl	8.5	None
<b>C 5</b>	15 % w/v PEG 1500	None	None		None
<b>C 6</b>	20 % w/v PEG 1500	None	100 mM HEPES Sodium Salt	7.5	None
<b>D 1</b>	30 % w/v PEG 1500	None	None		None
<b>D 2</b>	20 % w/v PEG 2000 MME	None	100 mM Tris-HCl	8.5	10 mM Nickel (II) Chloride
<b>D 3</b>	25 % w/v PEG 2000 MME	None	None		None
<b>D 4</b>	30 % w/v PEG 2000 MME	None	100 mM MES Sodium Salt	6.5	100 mM Sodium Acetate
<b>D 5</b>	20 % w/v PEG 3000	None	100 mM HEPES Sodium Salt	7.5	200 mM Sodium Acetate
<b>D 6</b>	30 % w/v PEG 3000	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate

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JBScreen Classic 2

Number	Precipitant 1	Precipitant 2	Buffer	pH	Additive
<b>A 1</b>	4 % w/v PEG 4000	None	100 mM Sodium Acetate	4.6	None
<b>A 2</b>	8 % w/v PEG 4000	None	None		None
<b>A 3</b>	8 % w/v PEG 4000	None	100 mM Sodium Acetate	4.6	None
<b>A 4</b>	10 % w/v PEG 4000	None	100 mM MES Sodium Salt	6.5	200 mM Magnesium Chloride
<b>A 5</b>	12 % w/v PEG 4000	None	100 mM HEPES Sodium Salt	7.5	100 mM Sodium Acetate
<b>A 6</b>	12 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	None
<b>B 1</b>	16 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate
<b>B 2</b>	16 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Sodium Acetate
<b>B 3</b>	16 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Magnesium Chloride
<b>B 4</b>	18 % w/v PEG 4000	None	100 mM Sodium Acetate	4.6	None
<b>B 5</b>	20 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate
<b>B 6</b>	20 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Calcium Chloride
<b>C 1</b>	22 % w/v PEG 4000	None	100 mM HEPES Sodium Salt	7.5	100 mM Sodium Acetate
<b>C 2</b>	25 % w/v PEG 4000	None	100 mM Sodium Acetate	4.6	None
<b>C 3</b>	25 % w/v PEG 4000	None	100 mM MES Sodium Salt	6.5	200 mM Magnesium Chloride
<b>C 4</b>	25 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Calcium Chloride
<b>C 5</b>	30 % w/v PEG 4000	None	None		None
<b>C 6</b>	30 % w/v PEG 4000	None	100 mM Sodium Acetate	4.6	100 mM Magnesium Chloride
<b>D 1</b>	30 % w/v PEG 4000	None	100 mM MES Sodium Salt	6.5	None
<b>D 2</b>	30 % w/v PEG 4000	None	100 mM HEPES Sodium Salt	7.5	200 mM Calcium Chloride
<b>D 3</b>	30 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate
<b>D 4</b>	30 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Sodium Acetate
<b>D 5</b>	30 % w/v PEG 4000	None	100 mM Tris-HCl	8.5	200 mM Magnesium Chloride
<b>D 6</b>	35 % w/v PEG 4000	None	None		None

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JBScreen Classic 4

Number	Precipitant 1	Precipitant 2	Buffer	pH	Additive 1	Additive 2
<b>A 1</b>	25 % w/v PEG 5000 MME	None	100 mM Tris-HCl	8.5	200 mM Lithium Sulfate	None
<b>A 2</b>	30 % w/v PEG 5000 MME	None	100 mM MES Sodium Salt	6.5	200 mM Ammonium Sulfate	None
<b>A 3</b>	3 % w/v PEG 6000	None	100 mM Tris-HCl	8.5	100 mM Potassium Chloride	None
<b>A 4</b>	10 % w/v PEG 6000	None	None		10 mM Magnesium Chloride	None
<b>A 5</b>	12 % w/v PEG 6000	2.0 M Sodium Chloride	None		None	None
<b>A 6</b>	15 % w/v PEG 6000	5 % w/v Glycerol	None		None	None
<b>B 1</b>	15 % w/v PEG 6000	50 mM Potassium Chloride	None		10 mM Magnesium Chloride	None
<b>B 2</b>	16 % w/v PEG 6000	None	None		10 mM Sodium Citrate	None
<b>B 3</b>	20 % w/v PEG 6000	None	50 mM Imidazole-HCl	8.0	None	None
<b>B 4</b>	25 % w/v PEG 6000	None	100 mM HEPES Sodium Salt	7.5	100 mM Lithium Chloride	None
<b>B 5</b>	28 % w/v PEG 6000	500 mM Lithium Chloride	100 mM Tris-HCl	8.5	None	None
<b>B 6</b>	30 % w/v PEG 6000	1.0 M Lithium Chloride	None		100 mM Sodium Acetate	None
<b>C 1</b>	33 % w/v PEG 6000	None	None		10 mM Sodium Citrate	None
<b>C 2</b>	2 % w/v PEG 8000	500 mM Lithium Sulfate	None		None	None
<b>C 3</b>	2 % w/v PEG 8000	1.0 M Lithium Sulfate	None		None	None
<b>C 4</b>	4 % w/v PEG 8000	None	None		None	None
<b>C 5</b>	8 % w/v PEG 8000	200 mM Lithium Chloride	None		50 mM Magnesium Sulfate	None
<b>C 6</b>	8 % w/v PEG 8000	None	100 mM Tris-HCl	8.5	None	None
<b>D 1</b>	10 % w/v PEG 8000	None	100 mM MES Sodium Salt	6.5	200 mM Zinc Acetate	None
<b>D 2</b>	10 % w/v PEG 8000	None	100 mM HEPES Sodium Salt	7.5	200 mM Calcium Acetate	None
<b>D 3</b>	10 % w/v PEG 8000	None	None		50 mM Magnesium Acetate	100 mM Sodium Acetate
<b>D 4</b>	10 % w/v PEG 8000	None	None		200 mM Magnesium Acetate	None
<b>D 5</b>	10 % w/v PEG 8000	10 % w/v Ethylene Glycol	100 mM HEPES Sodium Salt	7.5	None	None
<b>D 6</b>	10 % w/v PEG 8000	10 % w/v PEG 1000	None		None	None

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Number	Precipitant 1	Precipitant 2	Buffer	pH	Additive
<b>A 1</b>	500 mM Ammonium Sulfate	1.0 M Lithium Sulfate	None		100 mM Sodium Citrate
<b>A 2</b>	1.0 M Ammonium Sulfate	None	None		None
<b>A 3</b>	1.0 M Ammonium Sulfate	None	100 mM Sodium Acetate	4.6	None
<b>A 4</b>	1.0 M Ammonium Sulfate	2 % w/v PEG 400	100 mM HEPES Sodium Salt	7.5	None
<b>A 5</b>	1.0 M Ammonium Sulfate	None	100 mM Tris-HCl	8.5	None
<b>A 6</b>	1.2 M Ammonium Sulfate	3 % w/v 2-Propanol	None		50 mM Sodium Citrate
<b>B 1</b>	1.5 M Ammonium Sulfate	15 % w/v Glycerol	100 mM Tris-HCl	8.5	None
<b>B 2</b>	1.6 M Ammonium Sulfate	500 mM Lithium Chloride	None		None
<b>B 3</b>	1.6 M Ammonium Sulfate	1.0 M Lithium Sulfate	None		None
<b>B 4</b>	1.6 M Ammonium Sulfate	None	100 mM HEPES Sodium Salt	7.5	200 mM Sodium Chloride
<b>B 5</b>	1.6 M Ammonium Sulfate	2 % w/v PEG 1000	100 mM HEPES Sodium Salt	7.5	None
<b>B 6</b>	1.8 M Ammonium Sulfate	None	100 mM MES Sodium Salt	6.5	None
<b>C 1</b>	2.0 M Ammonium Sulfate	2.0 M Sodium Chloride	None		None
<b>C 2</b>	2.0 M Ammonium Sulfate	None	100 mM Sodium Acetate	4.6	None
<b>C 3</b>	2.0 M Ammonium Sulfate	5 % w/v PEG 400	100 mM MES Sodium Salt	6.5	None
<b>C 4</b>	2.0 M Ammonium Sulfate	None	100 mM Tris-HCl	8.5	None
<b>C 5</b>	2.2 M Ammonium Sulfate	None	None		None
<b>C 6</b>	2.2 M Ammonium Sulfate	20 % w/v Glycerol	None		None
<b>D 1</b>	2.4 M Ammonium Sulfate	None	None		100 mM Sodium Citrate
<b>D 2</b>	3.0 M Ammonium Sulfate	1 % w/v MPD	None		None
<b>D 3</b>	3.0 M Ammonium Sulfate	10 % w/v Glycerol	None		None
<b>D 4</b>	3.5 M Ammonium Sulfate	None	100 mM HEPES Sodium Salt	7.5	None
<b>D 5</b>	3.5 M Ammonium Sulfate	1 % w/v MPD	100 mM MES Sodium Salt	6.5	None
<b>D 6</b>	3.5 M Ammonium Sulfate	None	None		None

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Number	Precipitant 1	Precipitant 2	Buffer	pH	Additive
<b>A 1</b>	10 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	100 mM Sodium Citrate
<b>A 2</b>	12 % w/v MPD	None	100 mM Tris-HCl	8.5	50 mM Magnesium Chloride
<b>A 3</b>	15 % w/v MPD	None	100 mM Sodium Acetate	4.6	20 mM Calcium Chloride
<b>A 4</b>	15 % w/v MPD	5 % w/v PEG 4000	100 mM Imidazole-HCl	8.0	None
<b>A 5</b>	15 % w/v MPD	None	100 mM Sodium Citrate	5.6	200 mM Ammonium Acetate
<b>A 6</b>	15 % w/v MPD	None	100 mM MES Sodium Salt	6.5	200 mM Magnesium Acetate
<b>B 1</b>	15 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	200 mM Sodium Citrate
<b>B 2</b>	20 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	100 mM Sodium Citrate
<b>B 3</b>	20 % w/v MPD	None	100 mM Imidazole-HCl	8.0	None
<b>B 4</b>	20 % w/v MPD	4 % w/v Glycerol	None		200 mM Sodium Chloride
<b>B 5</b>	30 % w/v MPD	None	100 mM Sodium Acetate	4.6	20 mM Calcium Chloride
<b>B 6</b>	30 % w/v MPD	None	100 mM Sodium Citrate	5.6	200 mM Ammonium Acetate
<b>C 1</b>	30 % w/v MPD	None	100 mM MES Sodium Salt	6.5	200 mM Magnesium Acetate
<b>C 2</b>	30 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	500 mM Ammonium Sulfate
<b>C 3</b>	30 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	200 mM Sodium Citrate
<b>C 4</b>	30 % w/v MPD	5 % w/v PEG 4000	100 mM HEPES Sodium Salt	7.5	None
<b>C 5</b>	30 % w/v MPD	10 % w/v PEG 4000	100 mM Imidazole-HCl	8.0	None
<b>C 6</b>	30 % w/v MPD	20 % w/v Ethanol	None		None
<b>D 1</b>	35 % w/v MPD	None	None		None
<b>D 2</b>	35 % w/v MPD	None	100 mM Imidazole-HCl	8.0	None
<b>D 3</b>	40 % w/v MPD	None	100 mM Tris-HCl	8.5	None
<b>D 4</b>	47 % w/v MPD	None	100 mM HEPES Sodium Salt	7.5	None
<b>D 5</b>	47 % w/v MPD	2 % w/v tert-Butanol	None		None
<b>D 6</b>	50 % w/v MPD	None	None		None