

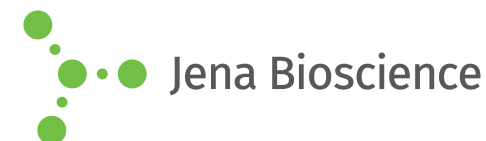


## JBScreen Thermofluor SPECIFIC

Thermal Shift Assay for protein stability

Cat.-No.: CS-333

## SCREEN FORMULATION



No.	Buffer	Additive 1	Additive 2
A1	Buffer 1 for reference assay	None	None
A2	Buffer 1 for reference assay	None	None
A3	Buffer 1 for reference assay	None	None
A4	Buffer 2 for reference assay	None	None
A5	Buffer 2 for reference assay	None	None
A6	Buffer 2 for reference assay	None	None
A7	Buffer 3 for reference assay	None	None
A8	Buffer 3 for reference assay	None	None
A9	Buffer 3 for reference assay	None	None
A10	None	None	None
A11	None	None	None
A12	None	None	None
B1	100 mM CHC buffer; pH 4.0	None	None
B2	100 mM CHC buffer; pH 4.0	150 mM Sodium chloride	None
B3	100 mM CHC buffer; pH 4.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
B4	100 mM CHC buffer; pH 4.0	150 mM Sodium chloride	10.00 mM Iron (III) chloride
B5	100 mM CHC buffer; pH 4.0	150 mM Sodium chloride	10.00 mM Zinc chloride
B6	100 mM CHC buffer; pH 4.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride
B7	100 mM MIB buffer; pH 4.0	None	None
B8	100 mM MIB buffer; pH 4.0	150 mM Sodium chloride	None
B9	100 mM MIB buffer; pH 4.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
B10	100 mM MIB buffer; pH 4.0	150 mM Sodium chloride	20.00 mM Calcium chloride
B11	100 mM MIB buffer; pH 4.0	150 mM Sodium chloride	10.00 mM Zinc chloride
B12	100 mM MIB buffer; pH 4.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride

pH values indicated are those of the final condition; concentrations indicated are those in the final assay volume of 25 µl (with 15 µl screening solution applied); CHC buffer is produced by mixing Citric acid:HEPES:CHES in the molar ratios 2:3:4; MIB buffer is produced by mixing Malonic acid:Imidazole:Boric acid in the molar ratios 2:3:3



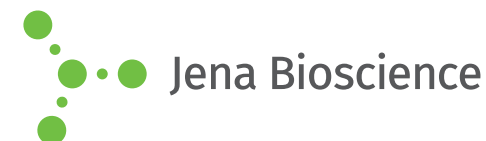


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Thermal Shift Assay for protein stability

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## SCREEN FORMULATION



No.	Buffer	Additive 1	Additive 2
C1	100 mM CHC buffer; pH 5.0	None	None
C2	100 mM CHC buffer; pH 5.0	150 mM Sodium chloride	None
C3	100 mM CHC buffer; pH 5.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
C4	100 mM CHC buffer; pH 5.0	150 mM Sodium chloride	10.00 mM Iron (III) chloride
C5	100 mM CHC buffer; pH 5.0	150 mM Sodium chloride	10.00 mM Zinc chloride
C6	100 mM CHC buffer; pH 5.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride
C7	100 mM MIB buffer; pH 5.0	None	None
C8	100 mM MIB buffer; pH 5.0	150 mM Sodium chloride	None
C9	100 mM MIB buffer; pH 5.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
C10	100 mM MIB buffer; pH 5.0	150 mM Sodium chloride	20.00 mM Calcium chloride
C11	100 mM MIB buffer; pH 5.0	150 mM Sodium chloride	10.00 mM Zinc chloride
C12	100 mM MIB buffer; pH 5.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride
D1	100 mM CHC buffer; pH 6.0	None	None
D2	100 mM CHC buffer; pH 6.0	150 mM Sodium chloride	None
D3	100 mM CHC buffer; pH 6.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
D4	100 mM CHC buffer; pH 6.0	150 mM Sodium chloride	10.00 mM Iron (III) chloride
D5	100 mM CHC buffer; pH 6.0	150 mM Sodium chloride	10.00 mM Zinc chloride
D6	100 mM CHC buffer; pH 6.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride
D7	100 mM MIB buffer; pH 6.0	None	None
D8	100 mM MIB buffer; pH 6.0	150 mM Sodium chloride	None
D9	100 mM MIB buffer; pH 6.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
D10	100 mM MIB buffer; pH 6.0	150 mM Sodium chloride	20.00 mM Calcium chloride
D11	100 mM MIB buffer; pH 6.0	150 mM Sodium chloride	10.00 mM Zinc chloride
D12	100 mM MIB buffer; pH 6.0	150 mM Sodium chloride	10.00 mM Manganese (II) chloride

pH values indicated are those of the final condition; concentrations indicated are those in the final assay volume of 25 µl (with 15 µl screening solution applied); CHC buffer is produced by mixing Citric acid:HEPES:CHES in the molar ratios 2:3:4; MIB buffer is produced by mixing Malonic acid:Imidazole:Boric acid in the molar ratios 2:3:3

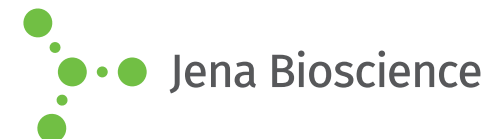


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## SCREEN FORMULATION



No.	Buffer	Additive 1	Additive 2
E1	100 mM CHC buffer; pH 7.0	None	None
E2	100 mM CHC buffer; pH 7.0	150 mM Sodium chloride	None
E3	100 mM CHC buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
E4	100 mM CHC buffer; pH 7.0	150 mM Sodium chloride	10.00 mM Iron (III) chloride
E5	100 mM CHC buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Lithium chloride
E6	100 mM CHC buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Potassium chloride
E7	100 mM MIB buffer; pH 7.0	None	None
E8	100 mM MIB buffer; pH 7.0	150 mM Sodium chloride	None
E9	100 mM MIB buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
E10	100 mM MIB buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Calcium chloride
E11	100 mM MIB buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Lithium chloride
E12	100 mM MIB buffer; pH 7.0	150 mM Sodium chloride	20.00 mM Potassium chloride
F1	100 mM CHC buffer; pH 8.0	None	None
F2	100 mM CHC buffer; pH 8.0	150 mM Sodium chloride	None
F3	100 mM CHC buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
F4	100 mM CHC buffer; pH 8.0	150 mM Sodium chloride	10.00 mM Iron (III) chloride
F5	100 mM CHC buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Lithium chloride
F6	100 mM CHC buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Potassium chloride
F7	100 mM MIB buffer; pH 8.0	None	None
F8	100 mM MIB buffer; pH 8.0	150 mM Sodium chloride	None
F9	100 mM MIB buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
F10	100 mM MIB buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Calcium chloride
F11	100 mM MIB buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Lithium chloride
F12	100 mM MIB buffer; pH 8.0	150 mM Sodium chloride	20.00 mM Potassium chloride

pH values indicated are those of the final condition; concentrations indicated are those in the final assay volume of 25 µl (with 15 µl screening solution applied); CHC buffer is produced by mixing Citric acid:HEPES:CHES in the molar ratios 2:3:4; MIB buffer is produced by mixing Malonic acid:Imidazole:Boric acid in the molar ratios 2:3:3



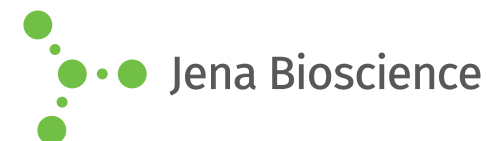


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## SCREEN FORMULATION



No.	Buffer	Additive 1	Additive 2
G1	100 mM CHC buffer; pH 9.0	None	None
G2	100 mM CHC buffer; pH 9.0	150 mM Sodium chloride	None
G3	100 mM CHC buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
G4	100 mM CHC buffer; pH 9.0	150 mM Sodium chloride	10.00 mM Iron (II) chloride
G5	100 mM CHC buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Lithium chloride
G6	100 mM CHC buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Potassium chloride
G7	100 mM MIB buffer; pH 9.0	None	None
G8	100 mM MIB buffer; pH 9.0	150 mM Sodium chloride	None
G9	100 mM MIB buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
G10	100 mM MIB buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Calcium chloride
G11	100 mM MIB buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Lithium chloride
G12	100 mM MIB buffer; pH 9.0	150 mM Sodium chloride	20.00 mM Potassium chloride
H1	100 mM CHC buffer; pH 10.0	None	None
H2	100 mM CHC buffer; pH 10.0	150 mM Sodium chloride	None
H3	100 mM CHC buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
H4	100 mM CHC buffer; pH 10.0	150 mM Sodium chloride	10.00 mM Iron (II) chloride
H5	100 mM CHC buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Lithium chloride
H6	100 mM CHC buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Potassium chloride
H7	100 mM MIB buffer; pH 10.0	None	None
H8	100 mM MIB buffer; pH 10.0	150 mM Sodium chloride	None
H9	100 mM MIB buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Magnesium sulfate
H10	100 mM MIB buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Calcium chloride
H11	100 mM MIB buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Lithium chloride
H12	100 mM MIB buffer; pH 10.0	150 mM Sodium chloride	20.00 mM Potassium chloride

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