

Full interpretation of the results requires you to look at the individual melt curves.

82% of curves were used in  $T_m$  estimations

Average estimation of error is **0.2 C**

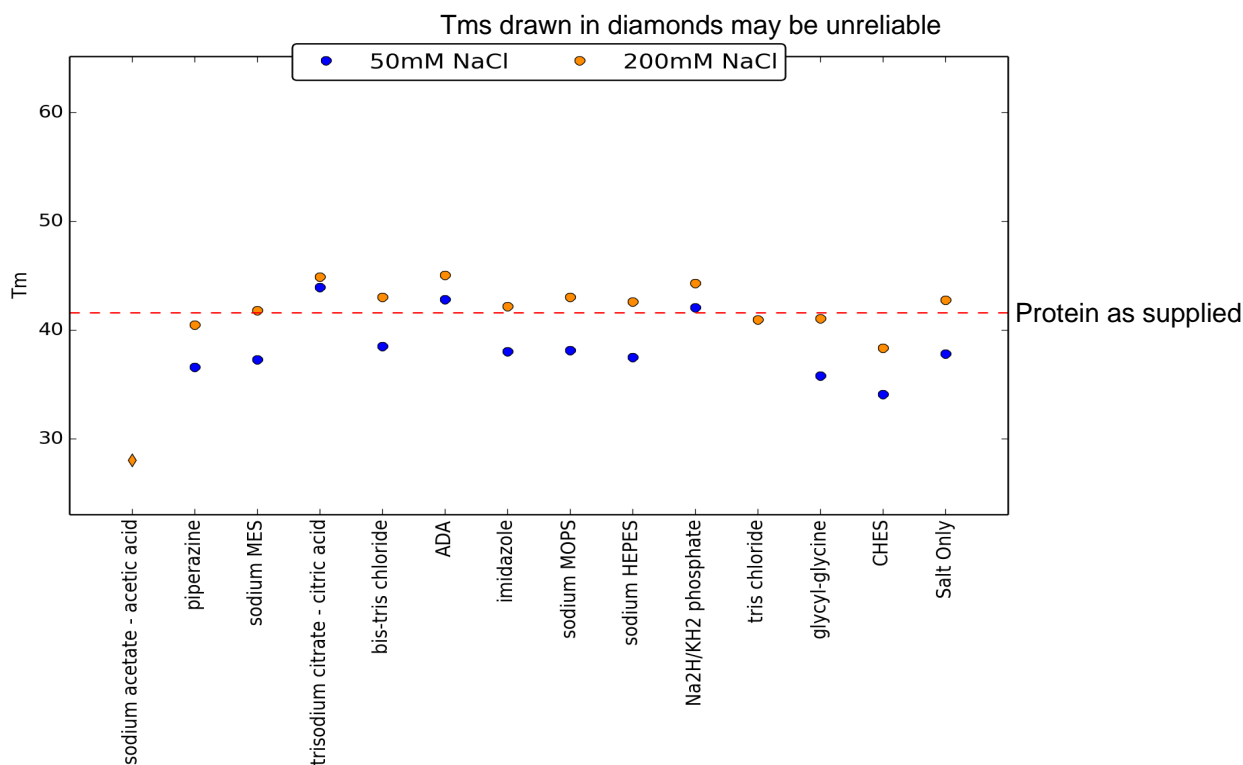
Protein as supplied is **well behaved**

Protein as supplied:  $T_m = 41.62(\pm 0.15)$

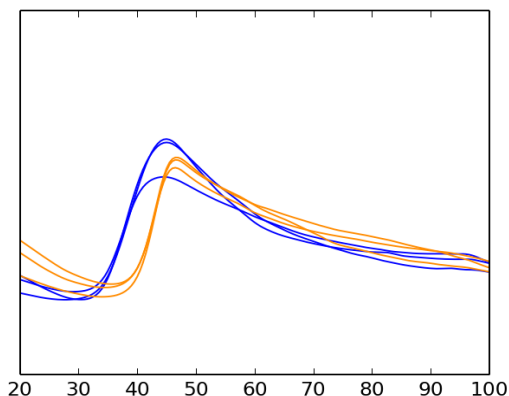
Lysozyme Control: Passed

No Dye Control: Passed

No Protein Control: Passed



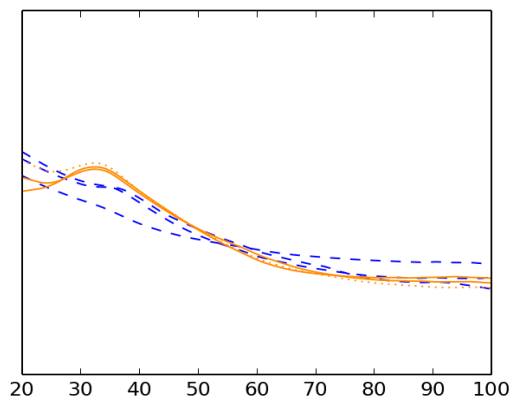
Highest  $T_m = 45.07 \pm 0.15$   
(ADA / 200mM NaCl)



Condition: Salt Only ( )

Salt: 50mM NaCl 200mM NaCl

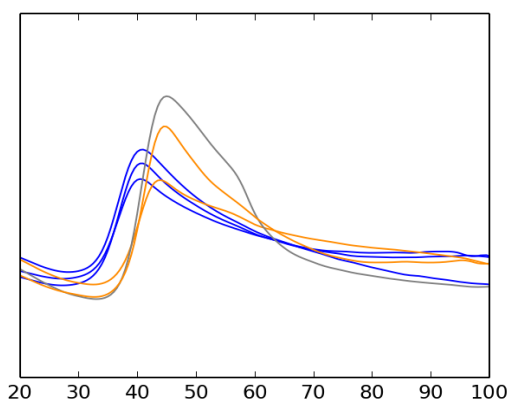
Tm: 37.84 (+/-0.54) 42.78 (+/-0.06)



Condition: sodium acetate - acetic acid (5)

Salt: 50mM NaCl 200mM NaCl

Tm: None 28.05 (+/-0.67)^



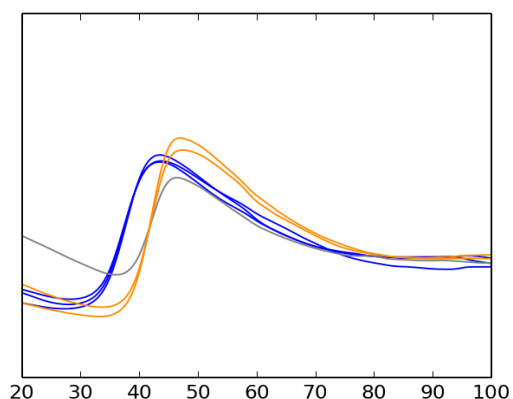
Condition: piperazine (5)

Salt: 50mM NaCl 200mM NaCl

Tm: 36.61 (+/-0.08) 40.48 (+/-0.44)

Adjusted pH at Tm: 5 at 20C

4.7 4.63



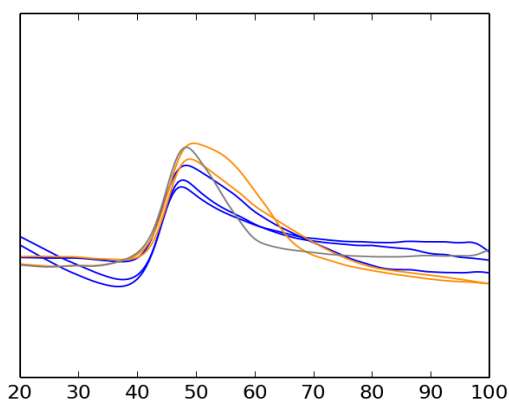
Condition: sodium MES (6)

Salt: 50mM NaCl 200mM NaCl

Tm: 37.29 (+/-0.16) 41.83 (+/-0.01)

Adjusted pH at Tm: 6 at 20C

5.87 5.83



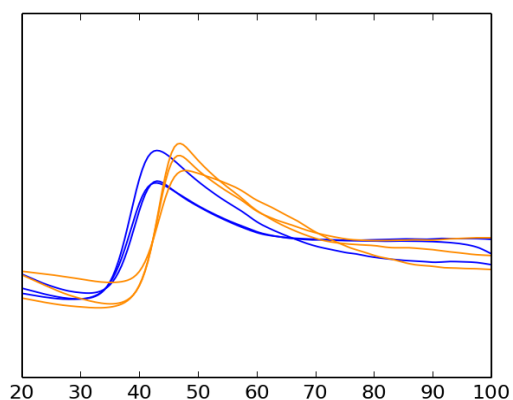
Condition: trisodium citrate - citric acid (6)

Salt: 50mM NaCl 200mM NaCl

Tm: 43.94 (+/-0.13) 44.93 (+/-0.03)

Adjusted pH at Tm: 6 at 20C

6.09 6.1



Condition: bis-tris chloride (6)

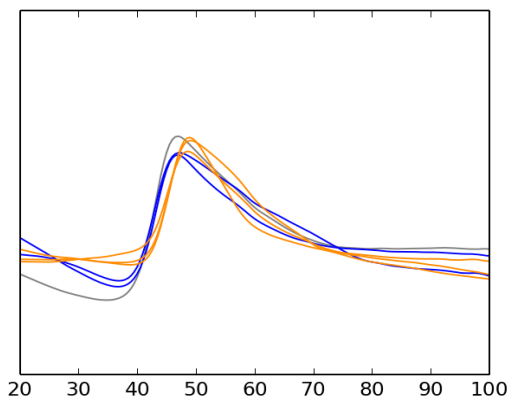
Salt: 50mM NaCl 200mM NaCl

Tm: 38.52 (+/-0.29) 43.07 (+/-0.07)

Adjusted pH at Tm: 6 at 20C

5.76 5.7

Curves drawn with dashed lines are monotonic and excluded from Tm calculations  
Curves with complex melt transitions are marked (^) and are drawn with a dotted line  
Curves coloured grey are outliers, and are excluded from Tm calculations



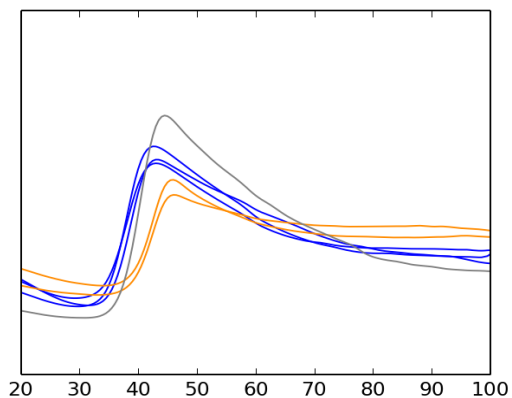
Condition: ADA (6)

Salt: 50mM NaCl 200mM NaCl

Tm: 42.86 (+/-0.13) 45.07 (+/-0.15)

Adjusted pH at Tm: 6 at 20C

5.92 5.91



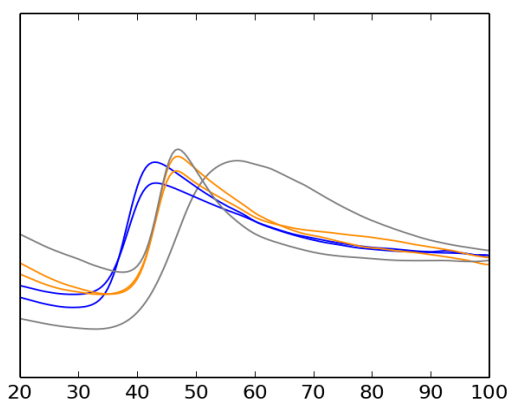
Condition: imidazole (7)

Salt: 50mM NaCl 200mM NaCl

Tm: 38.04 (+/-0.32) 42.19 (+/-0.0)

Adjusted pH at Tm: 7 at 20C

6.69 6.62



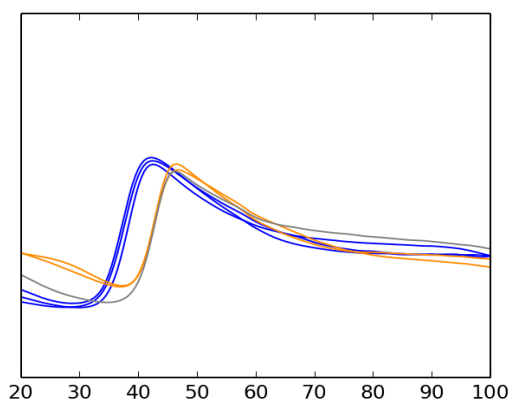
Condition: sodium MOPS (7)

Salt: 50mM NaCl 200mM NaCl

Tm: 38.14 (+/-0.13) 43.05 (+/-0.07)

Adjusted pH at Tm: 7 at 20C

6.85 6.81



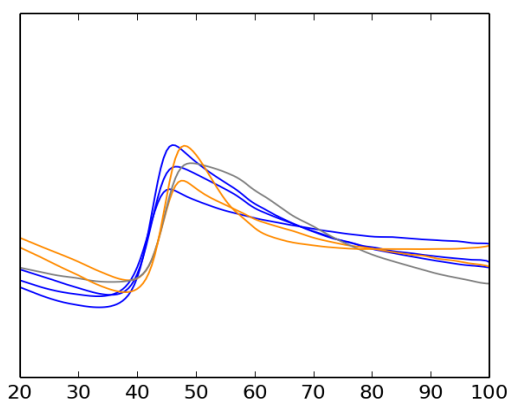
Condition: sodium HEPES (7)

Salt: 50mM NaCl 200mM NaCl

Tm: 37.52 (+/-0.45) 42.62 (+/-0.01)

Adjusted pH at Tm: 7 at 20C

6.89 6.86



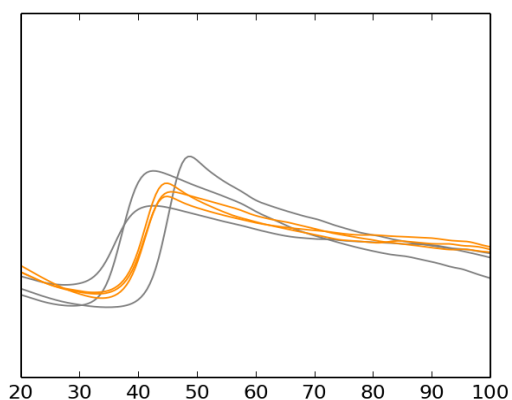
Condition: Na2H/KH2 phosphate (7)

Salt: 50mM NaCl 200mM NaCl

Tm: 42.07 (+/-0.25) 44.3 (+/-0.13)

Adjusted pH at Tm: 7 at 20C

7.12 7.13



Condition: tris chloride (8)

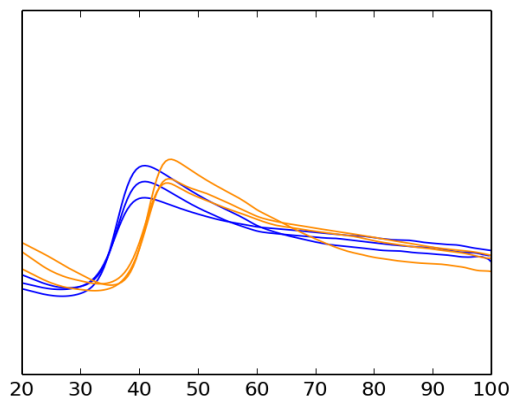
Salt: 50mM NaCl 200mM NaCl

Tm: None 40.99 (+/-0.03)

Adjusted pH at Tm: 8 at 20C

7.58

Curves drawn with dashed lines are monotonic and excluded from Tm calculations  
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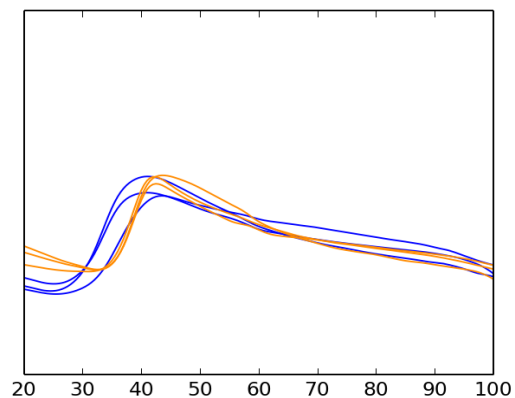
Condition: glycyl-glycine (8)

Salt: 50mM NaCl 200mM NaCl

Tm: 35.81 (+/-0.19) 41.08 (+/-0.16)

Adjusted pH at Tm: 8 at 20C

7.74 7.65



Condition: CHES (9)

Salt: 50mM NaCl 200mM NaCl

Tm: 34.14 (+/-1.09) 38.38 (+/-0.12)

Adjusted pH at Tm: 9 at 20C

8.83 8.78

Curves drawn with dashed lines are monotonic and excluded from Tm calculations  
 Curves with complex melt transitions are marked (^) and are drawn with a dotted line  
 Curves coloured grey are outliers, and are excluded from Tm calculations