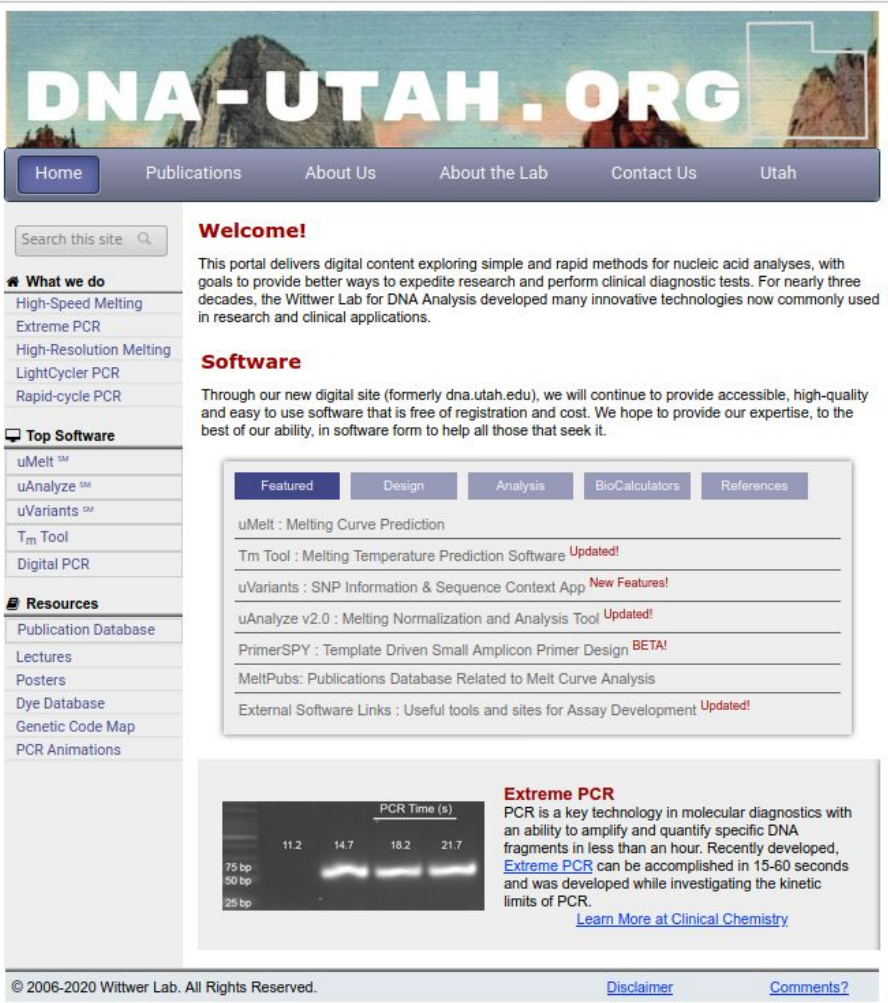
uMelt Batch℠ User Guide

Created by Zachary Dwight



About uMelt Batch

Address:

dna-utah.org/umelt/quartz

Publication:

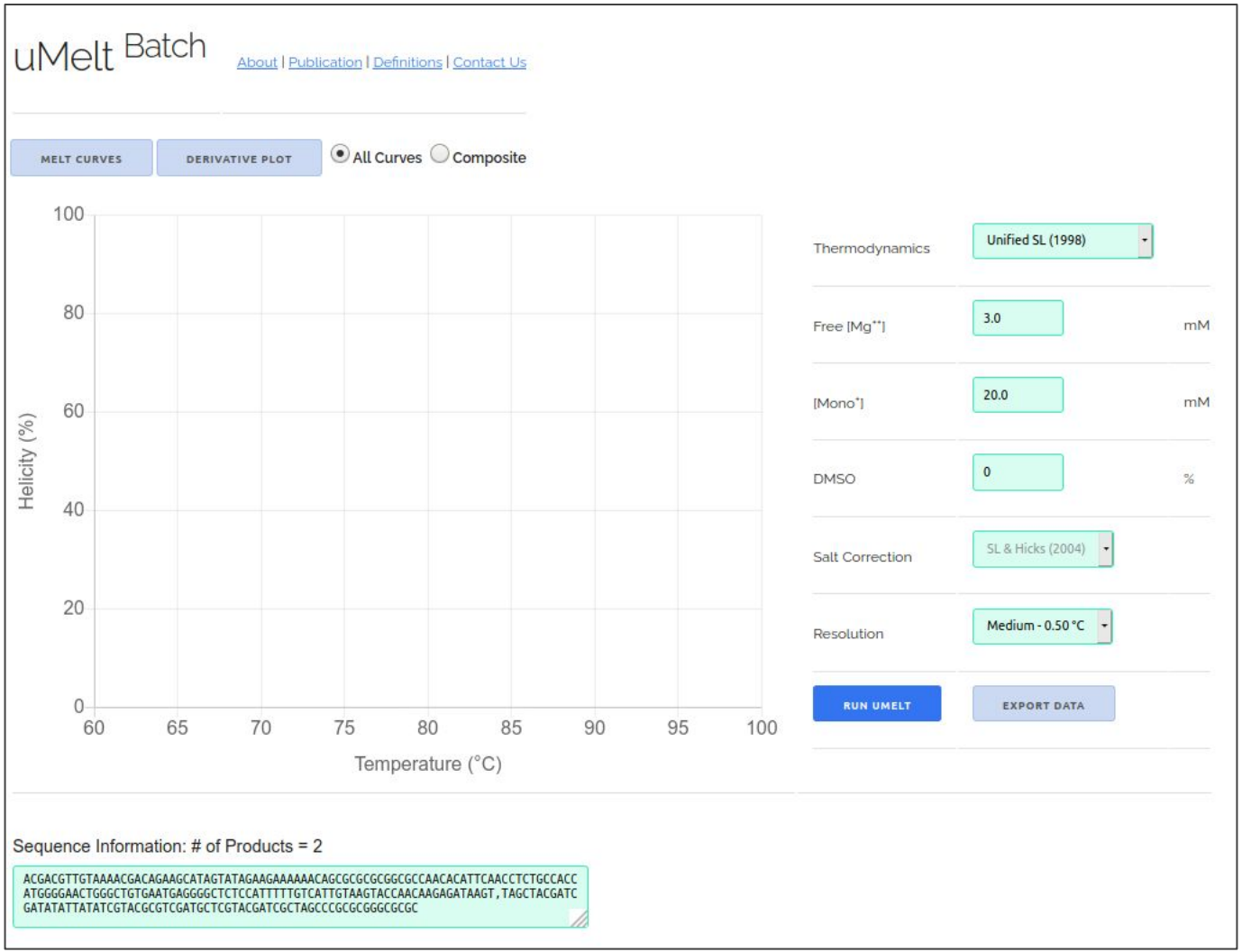
https://academic.oup.com/bioinformatics/article/27/7/1019/232651

GUI

Much like the original Flash version of uMelt Batch, defaults are in and already selected.

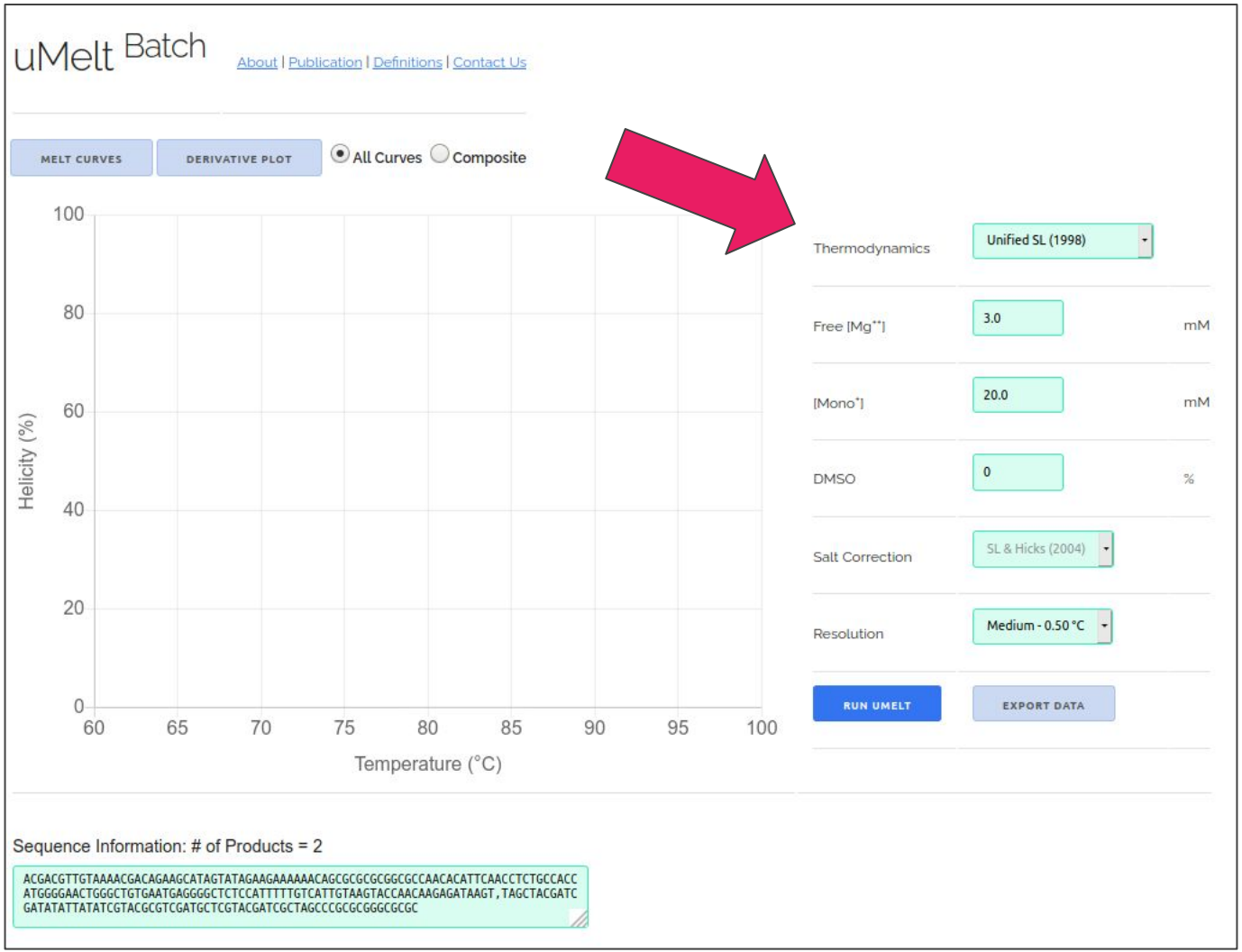
Copy and paste your sequences (delimited by comma) into the box below:

Note: 8 seq limit!



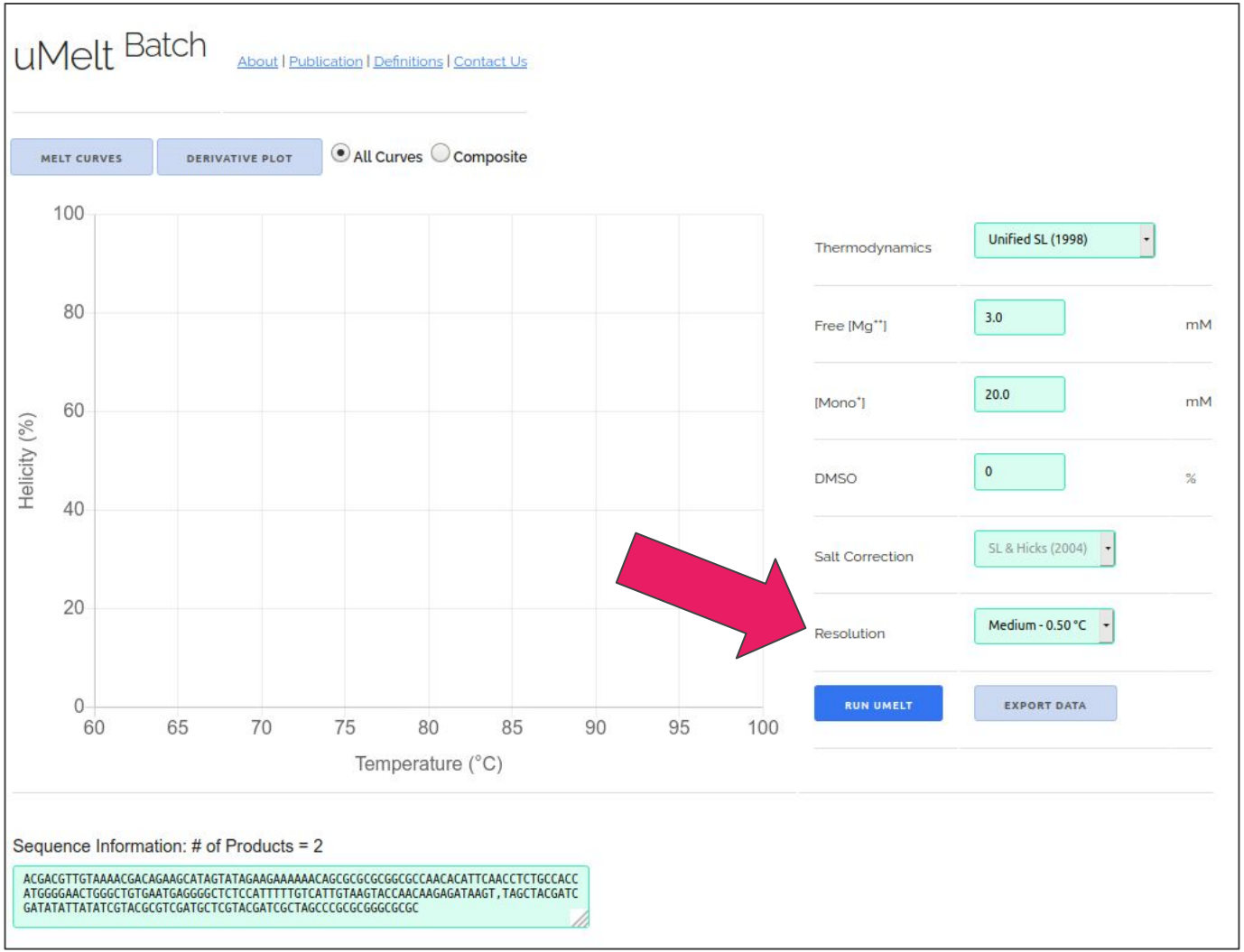
Parameters

Match parameters to those closest to your laboratory or PCR conditions to obtain a more accurate melting prediction:



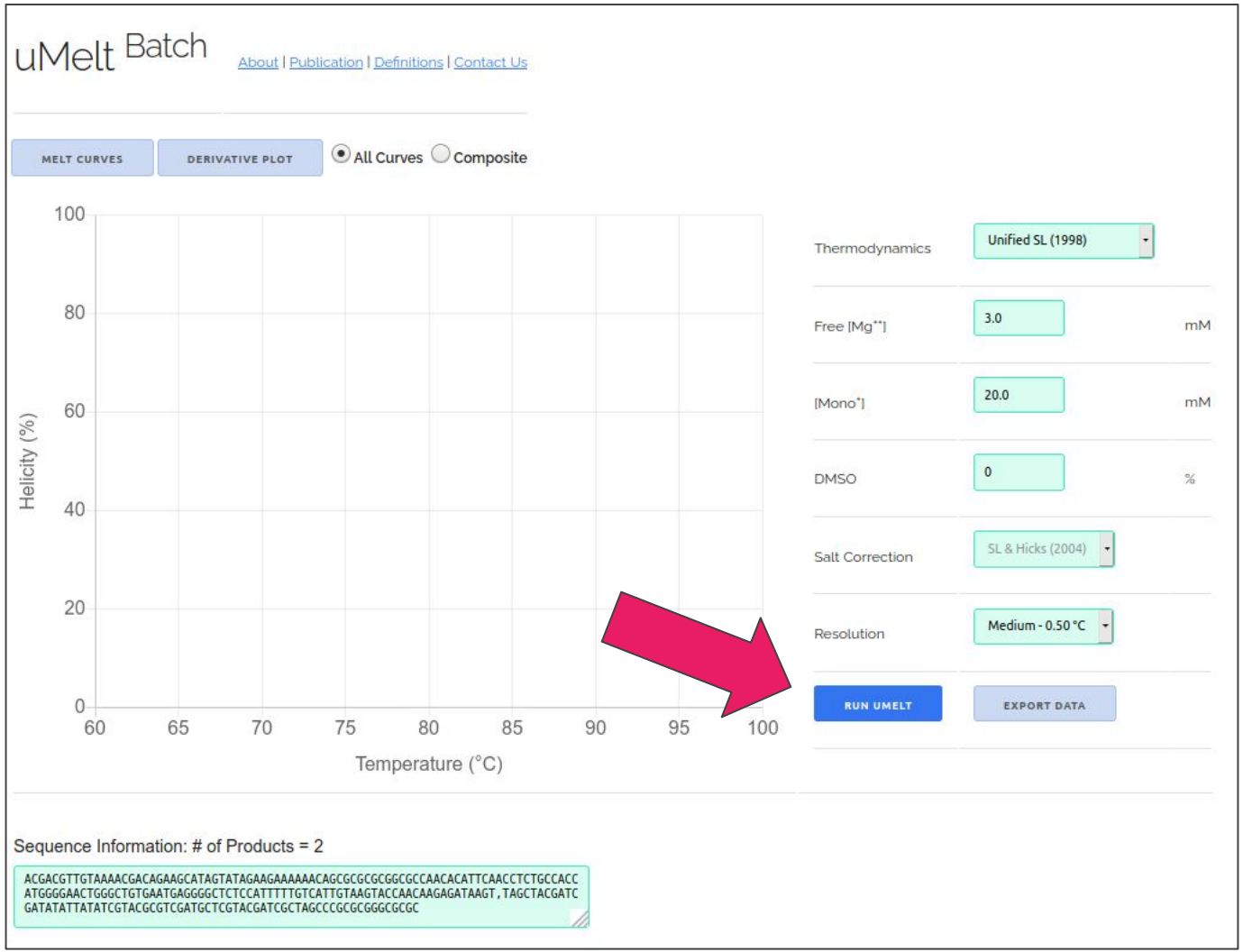
Resolution

The density of predicted points can be adjusted. More points provides smoother curves but calculation time takes longer:



Run!

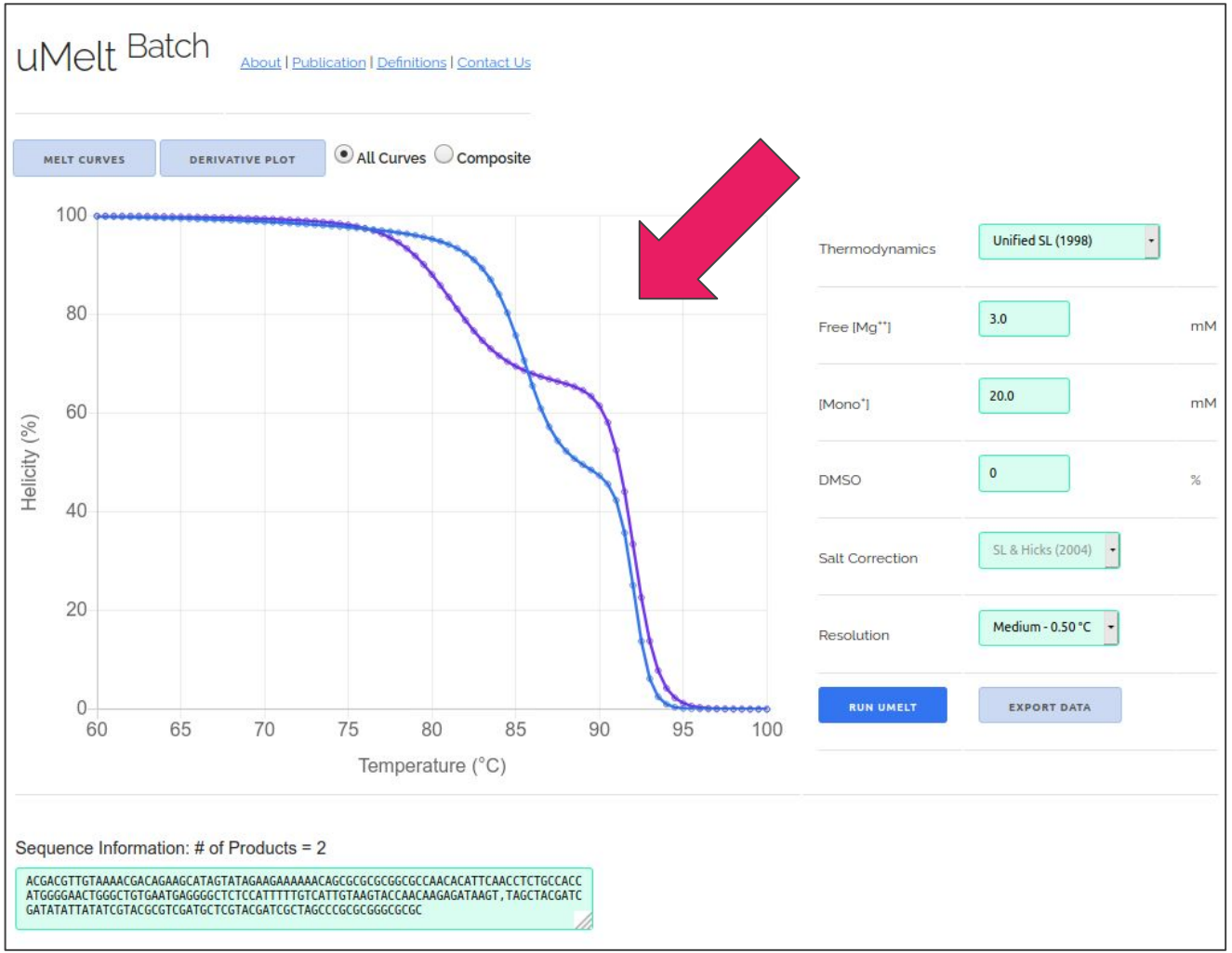
When all the inputs and parameters are set - click the ‘Run uMelt’ button:



Melt Curve

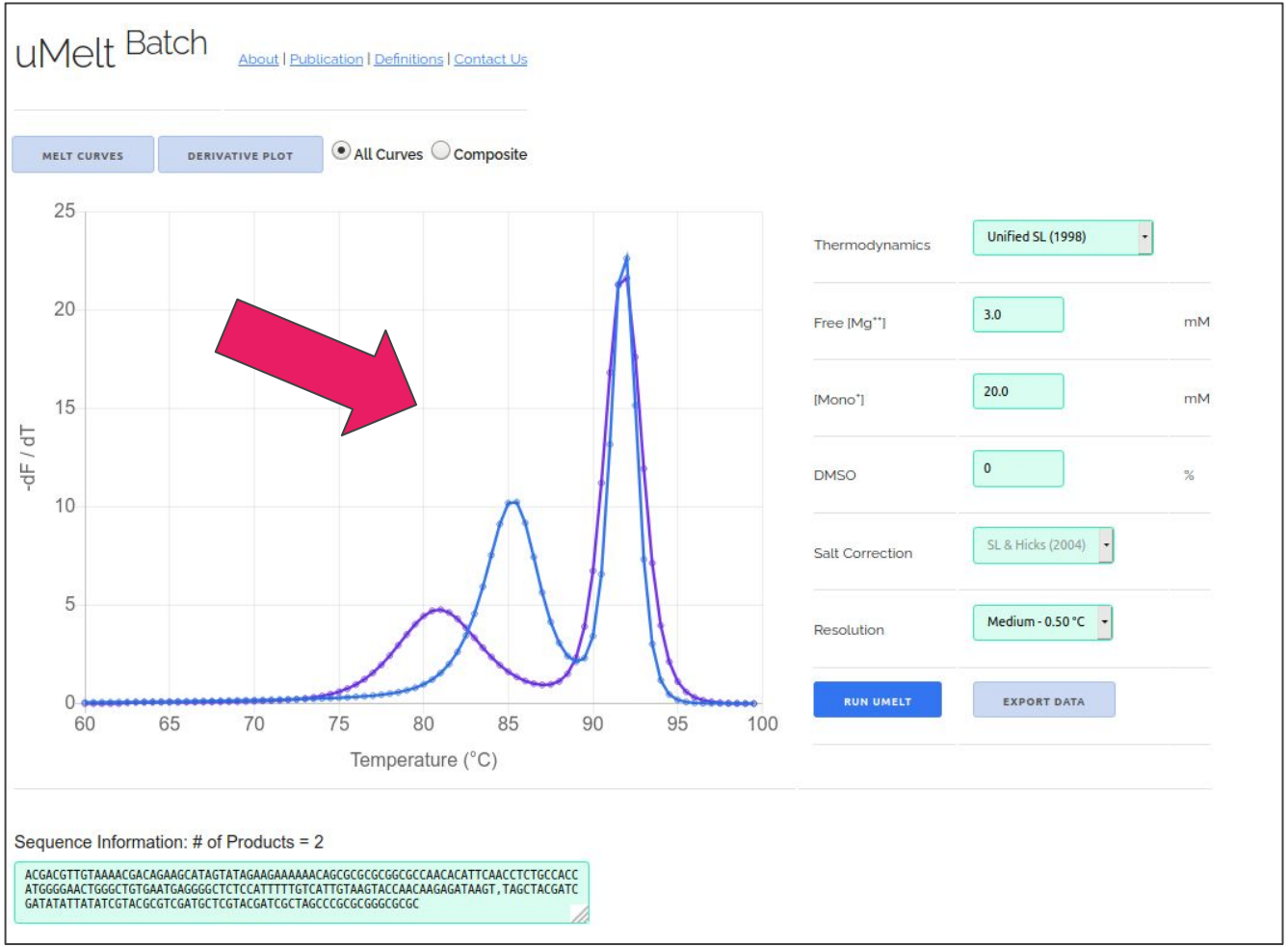
Melting curves are graphed upon calculation completion. This view is good for comparing potential product Tms.

By default, ‘All Curves’ is selected. This option assumes all PCR products have a dedicated well.



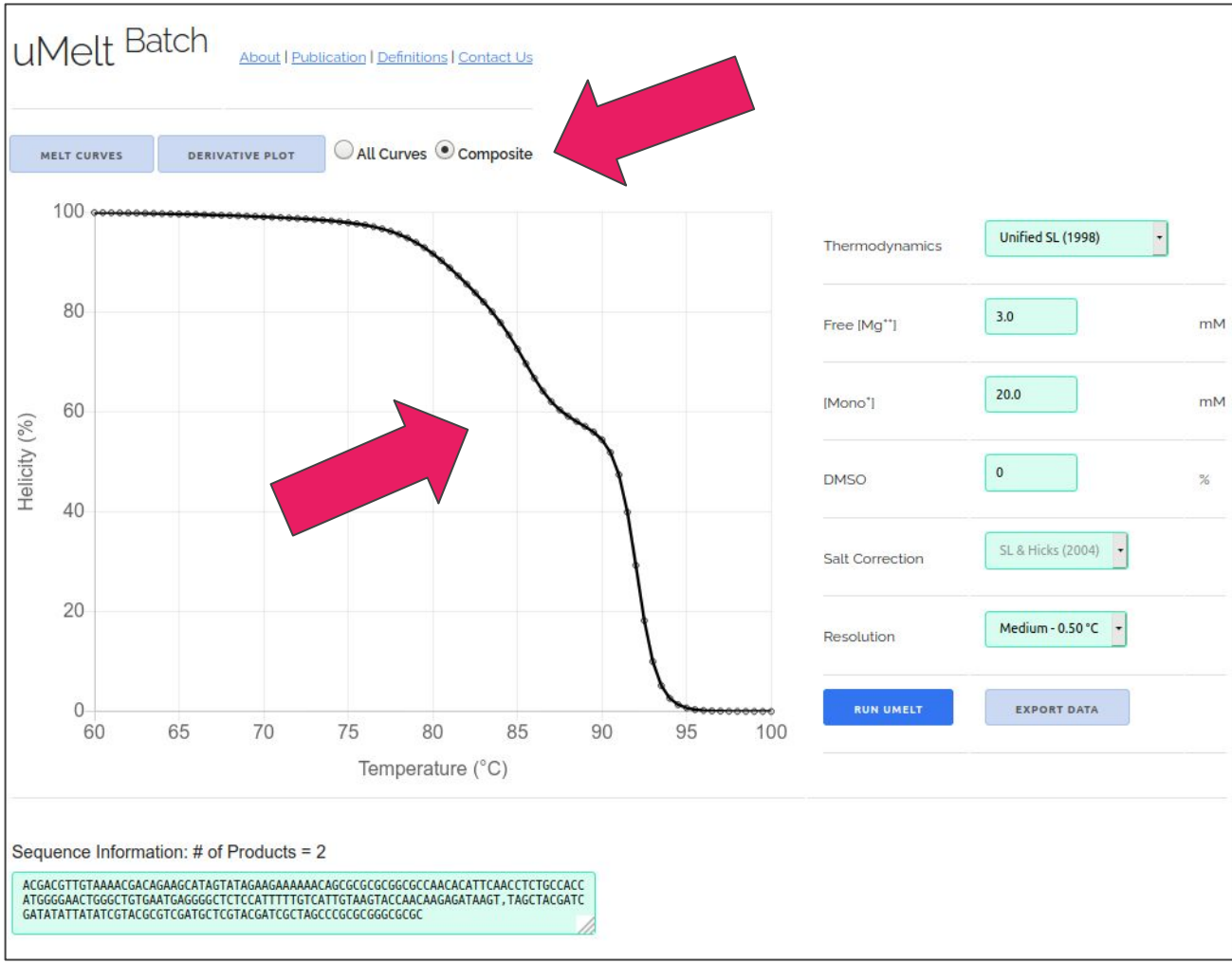
Derivative Plot

Derivative plots are also available:



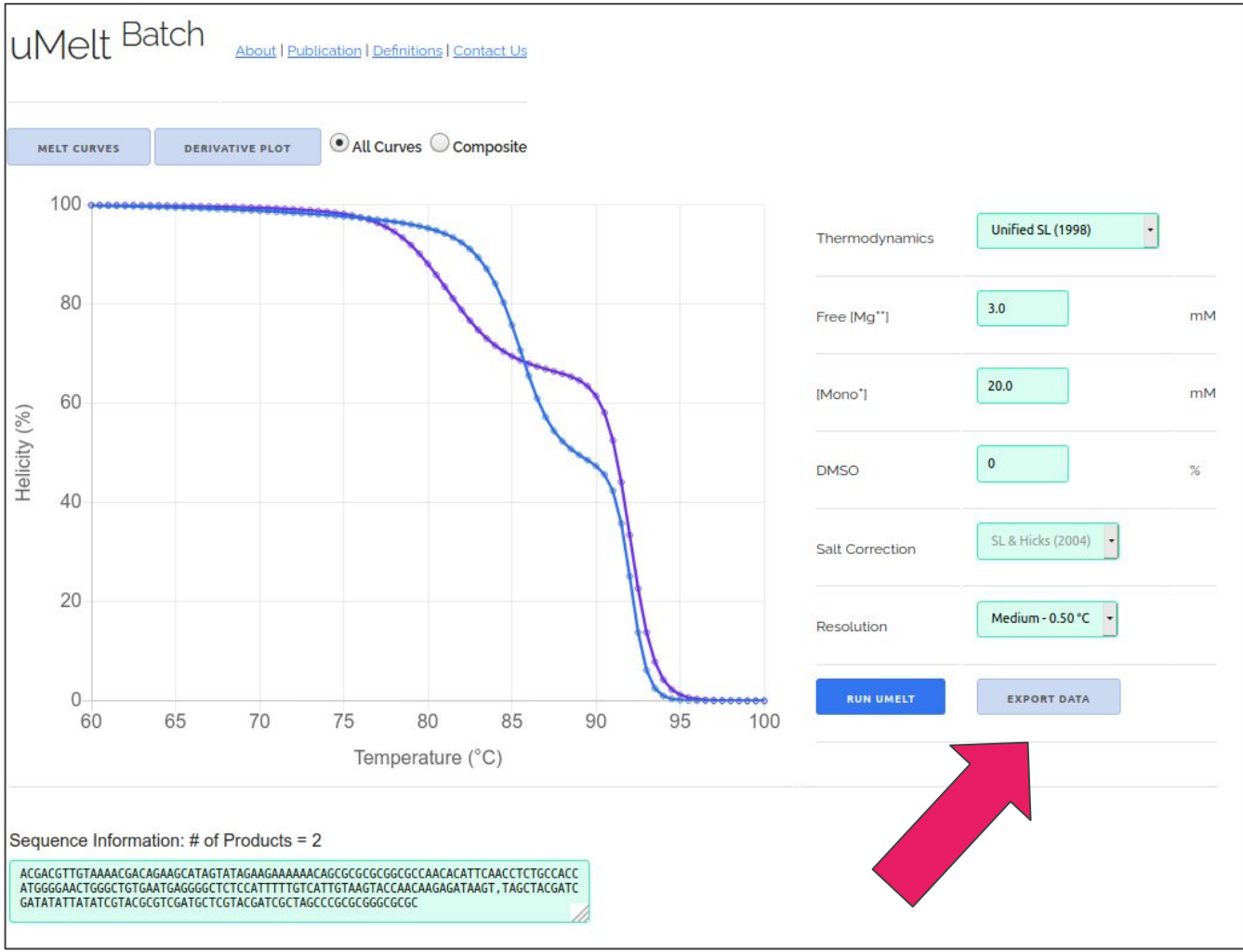
Composite

When multiple PCR products are melted in a single tube or well - a composite melting curve is observed. To simulate this, click the composite option above to obtain the sum of curves:



Data Export

Use the ‘Export Data’ button to download all the graph outputs (melting and derivative and composites) to .csv file:



Thanks!

Questions, comments, feedback:

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Our site:

dna-utah.org