## Stability Trial: Worked example using the XL t-test function

row 4
row 8

| Day 0 | Day x |
| ---: | ---: |
| 101.0 | 94.0 |
| 100.3 | 92.0 |
| 98.8 | 92.9 |
| 101.2 | 96.5 |
| 99.9 | 92.8 |


| Mean St.dev | 5 100.24 0.96 | 5 93.64 1.75 |  |
| :---: | :---: | :---: | :---: |
|  |  |  | Comparison |
| Pooled st.dev., s |  |  | 1.41 |
| Mean diff, d |  |  | 6.60 |
| SE(diff) |  |  | 0.893 |
| t statistic |  |  | 7.392 |
| degrees of freedom |  |  | 8 |
| critical value (.05) |  |  | 2.306 |

Conclusion:
There is a real difference between the means

| Target diff, $5 \%$ | 5.01 | t statistic | 5.613 | A $5 \%$ difference would be significant |
| ---: | ---: | ---: | ---: | ---: |
| Target diff, $10 \%$ | 10.02 | t statistic | 11.227 | A $10 \%$ difference would be significant |
| Target diff, $12.5 \%$ | 12.53 | t statistic | 14.034 | A $12.5 \%$ difference would be significant |

Extra sets of results may be inserted between rows 4 and 8 . Inserting them before row 4 or after row 7 will exclude them from the data set.
Deleting row 4 or row 8 will destroy the links to the calculation

