

Human Sample Correlation in Mercodia's Glucagon ELISAs

Background

Mercodia has two assays to measure glucagon in a sample; Mercodia Glucagon ELISA, 10-1271-01 and Mercodia Glucagon ELISA – 10 µL, 10-1281-01. The assays:

- are based on the same specific antibodies.
- have similar measuring ranges (<2 to ~150 pmol/L).
- do not need samples to be extracted before run.
- differ in sample volume; 10 µL vs 25 µL.
- differ in matrix effect assay optimization for increased accuracy when measuring non-human samples in the Glucagon ELISA – 10 µL.

Method

A sample correlation study was performed at Mercodia. The study included 25 EDTA plasma samples from apparently healthy individuals. The samples were analyzed in duplicates by three technicians in two runs for each Glucagon ELISA (Glucagon ELISA 10-1271-01 and Glucagon ELISA -10 µL 10-1281-01). The samples were randomized on the plates.

Results

The results in Figure 1 show that measured glucagon concentration is independent of the Mercodia assay used.

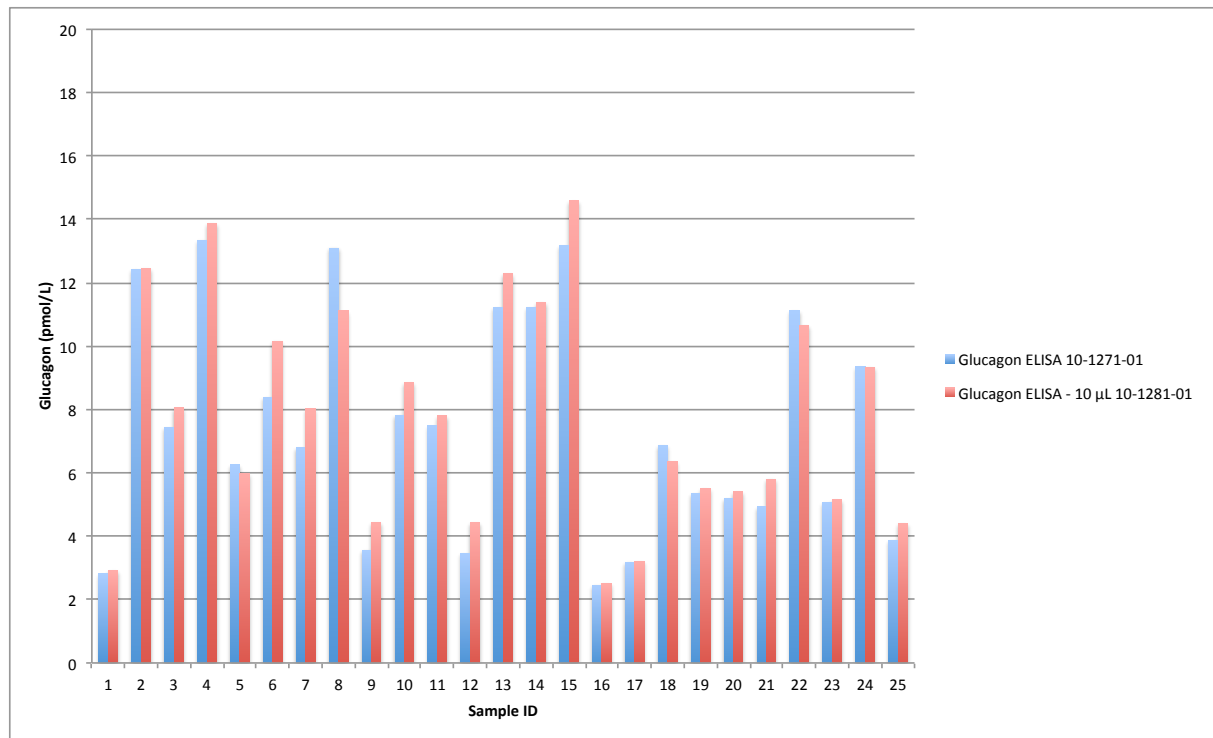


Figure 1. Glucagon concentration [pmol/L] measured in Mercodia's Glucagon ELISAs.

Conclusion

Mercodia's Glucagon ELISAs give consistent results for human samples, Figure 1. Sample differences are statistically insignificant. The average difference is 4 %, which is well within acceptable lot-to-lot variation.