



SOMAscan Service Provider,

The SomaLogic Bioinformatics team has implemented a change in our data standardization process to account for the total linear scaling of assay results from run to run. These modifications allow for increased consistency in plate to plate analysis between sites and provides more consistent quality reporting for easier interpretation over time. Concurrent with these changes are modifications to the number of samples and calibrators run on a given plate (reflected in Appendix A).

Any kits shipped after February 15, 2017 will be included in the aforementioned changes as a reflection of the processing modifications mentioned above.

For any questions regarding the new kit configurations or data normalization process please contact our Technical Services group ([techsupport@somallogic.com](mailto:techsupport@somallogic.com)). Changes will also be reflected in the appropriate user manuals.

In addition, SomaLogic will host “office hours” with our Technical Services group and Bioinformatics team to answer any questions as it relates to the new scheme. The invitation to the “office hours” will come in a separate email.

Regards,

Diana Maul  
Senior Director Regulatory/Quality Assurance

## Appendix A

### Changes to HTS Kits

Changes to HTS Kits	Previous Kits	New Kits	Comments
<b>SOMAScan® HTS Assay Kit 1.3k Human Plasma, SOMAScan® HTS Assay Kit 1.3k Human Serum (Item # 900-00013, 900-00014)</b>			
Research Samples	84	85	Additional sample can be run
Blank (Item # 650-00033)	1	3	Improves LOD and variance estimation
QC Samples (Item # 650-00014, 650-00018)	4 Total (2 samples in duplicate)	3 Total (1 sample in triplicate)	Reduces impact of single sample artifact
Pooled Calibrator Samples (Item # 650-00013, 650-00017)	7	5	No impact to calibrator calculations, but allows improvements to buffer and QC samples
<b>SOMAScan® HTS Assay Kit 1.3k, Cells and Tissue (900-00010)</b>			
Research Samples	92	90	2 fewer samples can be run, but allows improved variance estimation
Blank (Item # 650-00033)	1	3	Improves LOD and variance estimation
Cell Lysate controls (Item # 650-00035)	3 1 sample in triplicate	3 1 sample in triplicate	No change

## Appendix A

### Changes to Manual Kits

Changes to Manual Kits	Previous Kits	New Kits	Comments
<b>SOMAscan® Assay Kit 1.3k, Human Plasma, SOMAscan® Assay Kit 1.3k, Human Serum (Item # 900-00011, 900-00012)</b> May choose to run Blank OR QC samples OR both at the cost of number of samples assayed.			
Research Samples	24	24	No change
Blank (Item # 650-00033)	1	3* (optional in lieu of QC Samples)	Improves LOD and variance estimation
QC Samples (Item # 650-00014, 650-00018)	1 sample in replicate	3* (1 sample in triplicate [optional in lieu of Blanks])	Reduces impact of single sample artifact
Pooled Calibrator Samples (Item # 650-00013, 650-00017)	5	5	No change
<b>SOMAscan® Assay Kit 1.3k, Cells and Tissue (900-00009)</b>			
Research Samples	28	26	Additional sample can be run in CLTH kit
Blank (Item # 650-00033)	1	3	Improves LOD and variance estimation
Cell Lysate controls (Item # 650-00035)	3 1 sample in triplicate	3 1 sample in triplicate	No change

For a manual plasma or serum kit, either 3 blanks OR 3 quality control (QC) samples need to be included. A site should include blanks if they want to assess the estimated LOD. A site should include QC samples if the priority is to assess intra-run variance. Blanks and QC samples may be run concurrently at the sacrifice of assay samples.