

Congratulations!

You are on your way to adding data verification to your xMAP® immunoassays!

Quick Start

- Vortex microspheres well and add 1µL of the suspension to your microsphere mix for every well you will be examining. For example, a microsphere mix for 100 wells would receive 100µL of the AssayCheX™ process control panel microsphere mix.
- Prepare and run your assay as normal, and acquire data in microsphere regions 97-100 in addition to your normal assay regions with your normal software.
- When data has been acquired, export the *raw* Excel file for analysis.

Quick AssayCheX Analysis

- We highly recommend the MasterPlex® QT v4.0 software package with the AssayCheX plugin for quick-and-simple data analysis and qualification. For a *free* 2-week trial of the software visit <http://www.miraibio.com/masterplex-qt/assaychex.html>.
- Otherwise, Radix has an Excel worksheet available pre-set to flag AssayCheX outliers according to quick-start analysis recommendations. You just copy-and-paste your data! To receive a copy of the file, submit a request to info@radixbiosolutions.com. The worksheet:
 - Conditionally formats data from the 4 AssayCheX microspheres to flag values that do not meet threshold requirements below.
 - Separately calculates the mean MFI of the 4 AssayCheX microspheres in all wells that contained samples
 - Conditionally formats data from the 4 AssayCheX microspheres to flag values that do not fall within the acceptance ranges.

Microsphere Region	Threshold	Acceptance Range	
		Lower	Upper
97	>300	-30% of mean MFI	+30% of mean MFI
98	>300	-30% of mean MFI	+30% of mean MFI
99	>200	-30% of mean MFI	+30% of mean MFI
100	<75	-50% of mean MFI	+100% of mean MFI

*****Reexamine any data that has been flagged by these 2 acceptance metrics.**

Refer to AssayCheX Process Control Panel for Immunoassays Product Insert for further details.

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1
Add
AssayCheX
Microspheres

2
Add
Regions
97-100

3
Export &
Analyze
Data