LEGENDplex Setup for Attune NxT

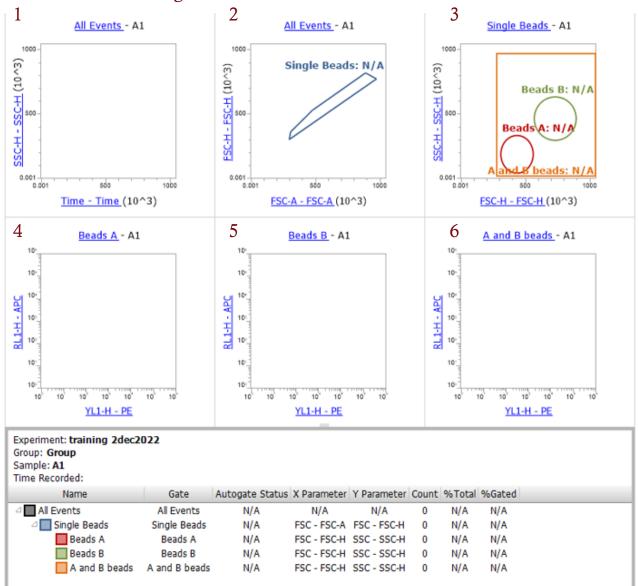
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Link to Official BioLegend Instructions

 $\underline{https://www.biolegend.com/Files/Images/BioLegend/legendplex/instructions/Setup-Procedure-for-Attune-NxT.pdf}$

Worksheet and Gating Illustration

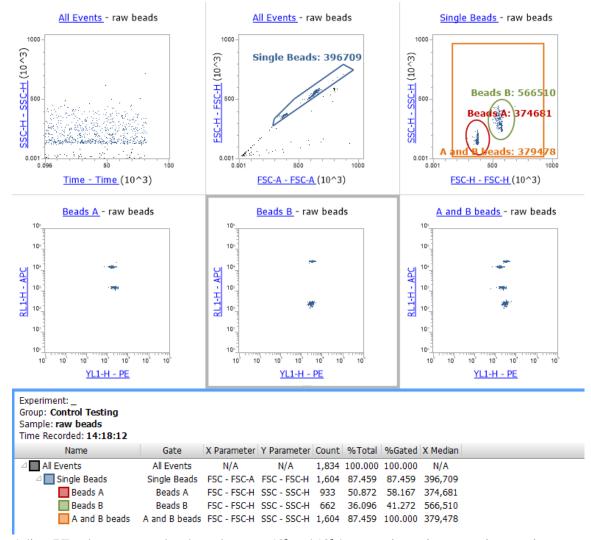


Plots and Gates

Plot	X Axis	Y Axis	Show Population	Gate	Purpose
1	Time	SSC-H (or A)	All Events	-	Monitor stable flow
2	FSC-A	FSC-H	All Events	Single Beads	Eliminate aggregates
3	FSC-H (or A)	SSC-H (or A)	Single Beads	Beads A	Gate bead populations
				Beads B	Gate bead populations
				A and B beads	Gate bead populations
4	PE-H (or A)	APC-H (or A)	Beads A	-	Show analytes in A
5	PE-H (or A)	APC-H (or A)	Beads B		Show analytes in B
6	PE-H	APC-H	A and B beads		Show analytes on all beads

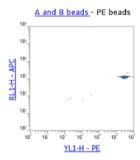
Setting Voltages

- Run Raw Beads at 25 μL/min
 - o Adjust FSC and SSC voltages so both bead populations are visible
 - Suggest at least 200K difference in FSC MFIs of A beads and B beads for optimal separation without increasing spread (e.g. A population FSC median at 400K and B population FSC median at 600K)

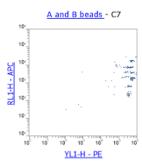


- O Adjust PE voltage so most beads are between 10^2 and 10^3 (as a starting point to put the negatives on scale, a little high in the figure above)
- o Adjust APC voltage so populations resolve and most are between 4x10³ and 7x10⁵ (a little low in the figure above)

- Run PE beads at 25 μL/min
 - o Adjust PE voltage so PE signal is halfway between 10⁵ and 10⁶ (getting positives on scale in the linear range of the detector)
 - o PE control beads exist only in the A population



- Run a control sample with the highest amount of analyte (Standard 7)
 - o Fine-tune the PE voltage so the brightest population of beads has a PE signal is halfway between 10⁵ and 10⁶
 - The goal is to have the brightest sub-population be half a log back from the maximum signal, so that no beads run off scale in the experiment



• Ignore the FITC setup beads included with the kit

Recording Data

Record samples at 200 µL/minute

Set **Stop Options** to "3,000 events on Beads A" – to get enough events for analysis

Set Record Events in to "A and B beads" - to keep debris and aggregates out of data files

