

Reagents to buy for CyTOF

1. Maxpar® PBS – Rockland #MB-008 (10X) or Fluidigm #201058 (1X)
2. Maxpar® Cell Staining Buffer - Fluidigm #201068
3. Maxpar® Fix and Perm Buffer - Fluidigm #201067
4. Maxpar® Water - Fluidigm #201069
5. EQ4 element calibration beads – Fluidigm #201078
6. 16% formaldehyde (methanol-free) - Thermo #28906
7. Cell-ID™ Cisplatin - Fluidigm #201064 (UChicago reagent bank \$2.20 per uL)
8. Cell-ID™ Intercalator-Ir - Fluidigm #201192A/201192B (UChicago reagent bank \$0.75 per uL)
9. Sterile flow tubes with caps
10. Filter pipette tips

Pricing

- Reagents (above): \$870
- Antibodies: average of \$300 per vial of 50-100 tests or \$4 per uL from UChicago reagent bank
- Helios run time: \$110 per hour
 - Optimal running time: 0.5×10^6 cells/mL = 300 events per second = 1×10^6 cells per hour
 - Optimal estimation of titration time: 6 hours
 - Optimal estimation of average sample time: 10 minutes + 2-5 minutes wash between samples
 - Please note that there are many things that could extend your run time and most users have not been running at these optimal times such as:
 - Samples below optimal concentration
 - Need to run samples longer to collect rare populations
 - Clogs
 - (Feel free to discuss run time with Mike Olson!)