

Materials List for:

Mass Cytometry: Protocol for Daily Tuning and Running Cell Samples on a CyTOF Mass Cytometer

Michael D. Leipold¹, Holden T. Maecker¹

¹Human Immune Monitoring Center, Institute for Immunity, Transplantation, and Infection, Stanford University

Correspondence to: Holden T. Maecker at maecker@stanford.edu

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Materials

Name	Company	Catalog Number	Comments
CyTOF mass cytometer	DVS Sciences		
Wash solution	DVS Sciences	201071	0.05% hydrofluoric acid in water
Tuning solution	DVS Sciences	201072	0.5 ppm La, Cs, Tb, Tm, Ir, trace nitric acid
Eu-containing polystyrene beads	DVS Sciences	201073	Contains natural-abundance Eu isotopes; beads supplied at approximately 1 million/ml
Multi-lanthanide-containing (La/Pr/Tb/Tm/Lu)- polystyrene beads	DVS Sciences	Not yet commercially-available	Contains natural-abundance isotopes of listed lanthanides
Nitric acid (concentrated)	Fisher Scientific	A467-500	Optima trace-metal pure ICP-MS grade
Polystyrene round-bottom tube with cell-strainer cap-5 ml	BD	352235	used to filter cell samples before injection
Norm-Ject tuberkulin syringe-1 ml	Henke Sass Wolf	4010-200V0	silicone-free, latex-free
Norm-Ject syringe-3 ml	Henke Sass Wolf	4010.000V0	silicone-free, latex-free
MilliQ water			18 MΩ pure water; must not be stored in glass or plastic bottles that have been washed with commercial detergent (due to their high levels of barium present).
Citranox	Sigma-Aldrich	Z273236	acid detergent
Argon gas	Praxair	AR 5.0UH-T	99.999% Ultra-high purity