Standard Protocol for αCD137 Coated Citrate Prussian Blue Nanoparticles

Performed By: Jacob Medina

Materials:

* Citrate PBNP (6mg/ml) (PBNP)
* αCD-137 (8.74mg/ml)
* MilliQ H2O

Procedure: Synthesis

1. Measure size and zeta potential of PBNPs
2. Preparation of αCD137-PBNPs in 1.7ml Eppendorf tube
   1. 168uL PBNP
   2. 57.2uL αCD-137
   3. 774.8uL MilliQ H2O
3. Contact solution in empty tip box filled with ice and place on shaker set to 400 for 30 minutes.
4. Spin particles down in small centrifuge at 15000RPM for 30 minutes.
5. Separate supernatant from pellet
   1. Measure absorbance at 680nm
   2. Measure leftover αCD137 with BCA assay
6. Resuspend pellet in 133.3ul MilliQ H2O by sonicating pellet at 30% amplitude for 30 seconds.
7. Measure size and Zeta Potential
   1. Do not measure until at least 1 hour has passed since sonication.
   2. αCD137-PBNPs should be stored in 4°C refrigerator or on ice when out of refrigerator.