

9/27/2017

Tasklist:

- Prepare AuNP using D₂O
- Prepare comparative AuNP using D₂O

➤ AuNP using D₂O

-Step 1: Create a solution using the following substances

Dried HAuCl₄ + 1mL D₂O + 0.1mL of 1M NaOH + 0.0007g-0.0009g of Amino Acids (Phe, Ile, or Arg) + 1.9mL D₂

-Step 2: Heat the sample in the oven to determine if fibers or colloids will form

➤ AuNP with H₂O

-Step 1: Create samples using table 1

Table 1: Samples of AuNP with H₂O

Sample	Amino Acid (g)	10mM Gold nanoparticle	1M NaOH (mL)	DI Water (mL)
1	0.004	0.4	0.1	1.5
2	0.0008	0.2	0.1	1.7
3	0.004	0.2	0.1	1.7
4	0.0008	0.4	0.1	1.5

Table 1 shows the samples of AuNP with H₂O. Four samples were made for each amino acid leaving twelve samples total in the end. The samples were created using AuCl₃. Later, the samples were remade using HAuCl₄.

-Step 2: Heat the samples in the oven to see if fibers or colloids formed