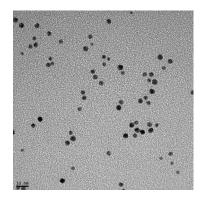
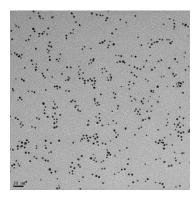
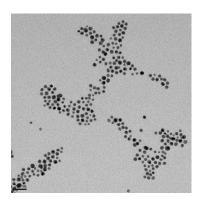
Metal Nanoparticles

Refs. AUNP-COL, AUNP-PUR, PDNP-COL, PDNP-PUR, PTNP-COL, PTNP-PUR, RHNP-COL, BINP-PUR, SNNP-PUR, CUNP-PUR, SBNP-PUR, IRNP-COL



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TEM images of Gold Nanoparticles

Metal nanoparticles are produced through colloidal synthesis methods, reducing a metal salt precursor in a solution and with the present of a stabilizer agent. Different metal nanoparticles are available including gold, palladium, platinum, rhodium, bismuth, tin or copper.

Colloidal nanospheres are commercialized in a stabilized dispersion with citrate, having a narrow distribution size and ready to be used.

Metal nanoparticles are later purified and concentrated removing any stabilizing agent. When nanoparticles are dispersed in ultrapure water or acetone, short sonication processes are required to get a homogeneous dispersion.

Reference	Description	Concentration (mg/ ml)	Mean diameter of NP (nm)
AUNP-COL	Gold nanoparticles dispersion in citrate	0.05	5
AUNP-PUR	Gold nanoparticles purified in ultrapure water	2	5
PDNP-COL	Palladium nanoparticles dispersion in citrate	0.05	5
PDNP-PUR	Palladium nanoparticles purified in ultrapure water	1	5
PTNP-COL	Platinum nanoparticles dispersion in citrate	0.05	5
PTNP-PUR	Platinum nanoparticles purified in ultrapure water	2	5
RHNP-COL	Rhodium nanoparticles dispersion in citrate	0.025	4
BINP-PUR	Bismuth nanoparticles purified in acetone	1	10
SNNP-PUR	Tin nanoparticles purified in acetone	1	8
CUNP-PUR	Copper nanoparticles purified in acetone	0.6	12
SBNP-PUR	Antimony nanoparticles purified in acetone	0.5	3
IRNP-PUR	Iridium nanoparticles dispersion in citrate	0.05	2

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