



Particular
customized material



2011 PARTICULAR® GOLD CONJUGATES

September 15, 2011

Introductory catalogue and price list

PARTICULAR® GOLD CONJUGATES

Particular's laser-generated gold nanoparticles exhibit high purity, high surface potential and strong activity, making them the perfect binding partner for **proteins and oligonucleotides** for biomedical, immunoassay, and toxicology studies (please contact us for application notes).

Since they are **ligand-free** before conjugation, Particular® gold conjugates are free of citrate or other particle-associated residual chemicals, so that bio-response studies can focus on **pure conjugate functionality**. Our method ensures superior conjugation efficiency (yield) and surface coverage (functionality) on the nanoparticles.

Particular offers gold conjugates in three groups at low, transparent prices. In addition, we offer a **buffer transfer** and fractionation/filtration (see below).

OLIGOS: Pure nano-gold (primary particle diameter ca. 5 to 10 nm) conjugated to **customized DNA** at different conjugation efficiencies and surface coverage rates. Oligos comprise customer-requested sequences of DNA with up to 40 bases.

Other oligonucleotides like **RNA, LNA**, customer-defined **aptamers**, as well as oligos with individual **fluorophor labelings** are available on request.

Group I: Oligonucleotides					
Coverage *	OD	Gold **	Volume	Order No.	Price
> 50 %	> 1	high	10 ml	C-01	2990 EUR
			2 ml	C-02	1490 EUR
	> 0.1	low	10 ml	C-03	1490 EUR
			2 ml	C-04	740 EUR
> 10 %	> 1	high	10 ml	C-05	1990 EUR
			2 ml	C-06	990 EUR
	> 0.1	low	10 ml	C-07	990 EUR
			2 ml	C-08	490 EUR

* Coverage rate refers to biomolecule saturation of gold particle surface. Lower gold coverage leads to a lower amount of unbound oligos in the dispersion. You may order a fractionation from unbound molecules (see section "additional services", S-02), especially for high-coverage gold conjugates.

** Gold concentration: high: > 90 µg/ml, ca. 10¹³ particles/ml • low: > 10 µg/ml, ca. 10¹² particles/ml

PEPTIDES: Pure nano-gold (primary particle diameter ca. 5 to 10 nm) conjugated to **cationic peptides** at a coverage in the range of 50 ligands per particle, as well as conjugates to standard peptides like **BSA**. Cationic peptides comprise the cell-penetrating peptides Penetratin, Decaarginine, and HIV-1-trans-activating protein (Tat). Please choose the peptide and gold concentration for your application.

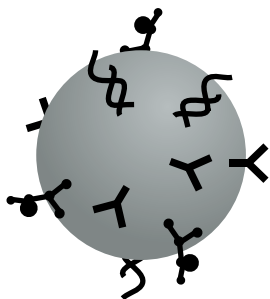
Group II: Peptides

Peptide	OD	Gold ***	Volume	Order No.	Price
BSA	> 1	high	10 ml	C-09	1590 EUR
			2 ml	C-10	790 EUR
	> 0.1	low	10 ml	C-11	790 EUR
			2 ml	C-12	390 EUR
Cationic*	> 1	high	10 ml	C-13	1990 EUR
			2 ml	C-14	990 EUR
	> 0.1	low	10 ml	C-15	990 EUR
			2 ml	C-16	490 EUR
Custom**	> 1	high	10 ml	C-17	2390 EUR
			2 ml	C-18	1190 EUR
	> 0.1	low	10 ml	C-19	1190 EUR
			2 ml	C-20	590 EUR

* Please choose from: 1) Penetratin, 2) Decaarginine, 3) Tat protein.

** Please define your custom (non-cationic) peptide. For optimal binding, peptides shall bear cysteine group, preferably at terminus. Prices are subject to availability and costs of custom peptides.

*** Gold concentration: high: > 90 µg/ml, ca. 10¹³ particles/ml • low: > 10 µg/ml, ca. 10¹² particles/ml



ANTIBODIES: Pure nano-gold (primary particle diameter ca. 5 to 10 nm) conjugated to **secondary antibodies (anti-IgG)** from mouse, rabbit, goat, donkey, and chicken hosts, at tunable gold concentrations. Please specify your requirements (anti-IgG host, desired gold concentration/OD). Gold conjugation to primary or monoclonal secondary antibodies is available on request.

Group III: Secondary Antibodies				
OD	Gold *	Volume	Order No.	Price
> 1	high	10 ml	C-21	2390 EUR
		2 ml	C-22	1190 EUR
> 0.1	low	10 ml	C-23	1190 EUR
		2 ml	C-24	590 EUR

* Gold concentration: high: > 90 µg/ml, ca. 10¹³ particles/ml • low: > 10 µg/ml, ca. 10¹² particles/ml

ADDITIONAL SERVICES: For each gold conjugate sample, we offer additional treatments to adapt the quality and usability to your requirements. We offer an immediate, safe transfer from pure water to **stabilizing buffer** solutions and cell culture media (like TRIS or DMEM), a **fractionation** of the conjugates from unbound molecules in the solution by means of centrifugation, and a sterilization using a 0.22 µm Millex-GV filter unit.

Additional Services		
Service (prices per ordered sample)	Order No.	Price
Transfer to buffer solution – please choose from: DMEM, FBS, TRIS, HEPES, RPMI, PBS+Albumin	S-01	300 EUR
Fractionation from unbound molecules	S-02	200 EUR
0.2 µm filtration (protein sterilization)	S-03	100 EUR

INFORMATION AND CONTACT

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