

# CONJUGATION

“Our custom conjugation scientists perform more than 500 individual conjugations every year on a variety of different – and often totally unique – applications.”

## Conjugation

One of the most important factors in the development of a reliable assay is the quality of the gold conjugate. At BBI Solutions we use the highest quality grades of gold nanoparticles and apply our unique conjugation protocol to deliver an optimised product that meets the demands of your assay. Whether you are looking to bind gold to a specific antibody, need a custom conjugation, or off the shelf products, BBI can help and deliver.

## Custom conjugation service

BBI's custom conjugation service allows us to develop high quality conjugates using reagents provided by you or sourced by us.

## Our service includes:

Advice on the optimum nanoparticle and size to use for your application	Conjugation of your antibody or protein to a nanoparticle and size of your choice
Particle Analysis	Batch sizes up to 24L at OD10
Sourcing your required antibody or protein	Long term stability analysis (on request)
Selection of appropriate final buffer for the conjugate	Custom OD preparation (not limited to OD10)
Antibody Screening	QC test development
Optimisation of sensitivity and potential stability	Comprehensive lab report on conjugate performance

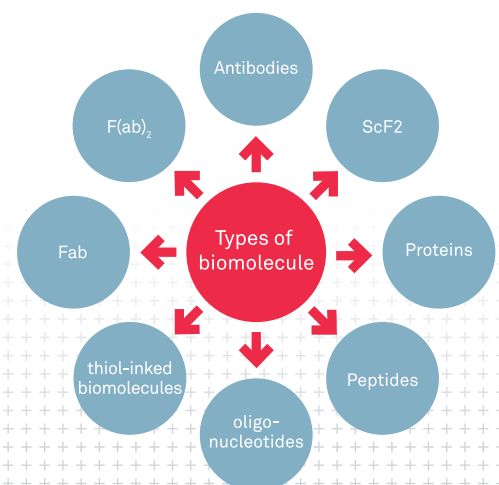
## We conjugate to numerous nanoparticles including:

- + Gold nanoparticles
- + Latex nanoparticles

## Designed to meet your individual needs

Specificity, sensitivity and reproducibility should define the specification and fulfil your absolute minimum expectations of the conjugate.

Our scientists work in partnership with customers to bring all the vital ingredients together and provide sensitive, stable, reproducible conjugates time after time.



Ask us for a custom conjugation quote today [www.bbisolutions.com](http://www.bbisolutions.com)

At the start of the project we will ask you for the following customer inputs and deliver the listed outputs:

Customer inputs	Anti-human
Choose your target protein (antibody/protein)	Initial 10ml of final optimised product - (enough for 1000 prototype lateral flow strips*)
Identify target sensitivity	Excess reagents banked for future production
Identify particle size	Full laboratory report on performance customised to your requirements
Concentration of final conjugate required	Access to technical team post conjugation
Provide 3-5mg of protein for conjugation and QC materials	*using a 1:5 dilution of OD10 conjugate per strip

### A quality solution

Every custom conjugation we carry out is subject to stringent QC sign off. Your unique sign-off procedure is brought into BBI to ensure every batch of gold we deliver meets your requirements and works with your in-house system. BBI's custom conjugation service allows us to develop high quality conjugates using reagents provided by you or sourced by us.

### Bulk production

Following collaboration on the optimisation of the conjugate to test specifications, we are able to provide conjugate in bulk. We can put a commercial supply plan in place and supply single batch volumes of up to 24L at OD10, delivered on a two week turnaround.

### Off the shelf conjugates

For optimal performance, cost effectiveness and guaranteed quality, we offer off the shelf catalogue gold conjugates, designed to help you develop and manufacture your assay at a rapid and economical rate.

### Our catalogue range includes:

- Anti-biotin • Anti-human • Control line • Anti-species • **Disease state conjugates** • Fertility conjugates

All conjugates manufactured using our unique gold nanoparticles, provide outstanding performance and long term stability:

Anti-Biotin	Anti-Human	Control Line	Anti-Species	Fertility
BA.MAB40	BA.GAHL40	CONT.CHICK	BA.GAR40	BA.HCG40
BA.GAB40	BA.GAH40	BA.MG40	BA.GAM40	BA.LH40
	BA.GAHA40	BA.BSA40*		
	BA.PAG40	BA.GAM40		
		BA.GAR40		

\*Negative control conjugate

### Related products

Size of Gold Nanoparticle	Mean Particle Size Range	Maximum Acceptable %CV	Number of Odd Shapes per 100 Particles
20nm	19.0 – 21.0 nm	8%	≤5
40nm	37.0 – 43.0 nm	8%	≤5
60nm	57.0 – 63.0 nm	8%	≤5
80nm	77.0 – 85.0 nm	8%	≤10

Order a sample conjugate today [sales@bbisolutions.com](mailto:sales@bbisolutions.com)

Int: +44 (0) 1495 363 000 USA: 1-207-797-5454 China: +86 021 61042216