

# AURION GOLD TRACERS

---

## AURION Anionic and Cationic Gold Tracers

The Aurion anionic and cationic Gold Tracers are designed to detect charged areas, the anionic tracers detecting positive charges, the cationic tracers detecting negative charges.

In order to obtain a positive reaction when using these tracers the following should be kept in mind:

1. charge interactions are influenced by the presence of ions, the di- and trivalent ions being of more influence than the univalent ions. The influence is concentration dependent. Maximum binding will only occur in low ionic-strength media, ideally in distilled water.
2. charge interactions are influenced by the prevailing pH. The charge of components in the specimen is dependent of their isoelectric point, below the IEP the charge is positive, above the IEP negative. Maximum binding will only occur at a pH at least one pH-unit higher or lower than the IEP.

The same is true for the gold tracers.

Anionic tracers are negatively charged at pH >5

Cationic tracers are positively charged at pH <10

In summary:

1. Determine the pH value at which the components to be detected will be charged.
2. Use a low ionic strength detection buffer at the determined pH.
3. Use an anionic tracer to detect positively charged components or a cationic tracer to detect negatively charged components.

### Please note:

Gold tracers are shipped containing 15 mM sodium azide as preservative. If they are intended for use in living organisms, the preservative has to be removed prior to use. This can be achieved either by dialysis or by using for instance a Pharmacia PD-10 column, equilibrated in binding buffer. The tracers should be stored at 4°-8°C and are supplied at OD<sub>520nm</sub>=2.0.

## AURION BSA Gold Tracers

Bovine Serum Albumin Gold tracers are intended for the detection of fine capillaries or connecting open spaces in intact tissues. The tracers should be used in phosphate buffered saline containing 0.1% BSA at pH 7.0 - 7.4. Under these conditions charge influences are minimized.



Immuno Gold Reagents & Accessories  
Custom Labelling

Binnenhaven 5  
6709 PD WAGENINGEN, THE NETHERLANDS  
phone: (+31)-317-415094 fax: (+31)-317-415955  
<http://www.aurion.nl/>  
e-mail: [info@aurion.nl](mailto:info@aurion.nl)