

AURION GOLD TRACERS

AURION Anionic Gold Tracers

The Aurion Anionic Gold Tracers are designed to detect positive charged areas in the specimen.

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 lower than the IEP.

The same is true for the Anionic gold tracers: they are negatively charged at pH >5

In summary:

1. Determine the pH value at which the components to be detected will be charged.
2. Use a pH > 5 and 1 pH unit or more below IEP.
3. Use a low ionic strength detection buffer at the determined pH.

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_{520nm}=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.



AURION

Immuno Gold Reagents & Accessories
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