

AURION BSA-c™

PRODUCT INFORMATION

AURION BSA-c™ is an acetylated and (partly) linearized form of Bovine Serum Albumin.
AURION BSA-c™ is a 10% solution supplemented with 15mM NaN₃ and is supplied in 30 and 100 ml quantities.
Store at 4°C.

GENERAL REMARKS

It should be noted that attempts to reduce background may have an influence on the specific reactions too, since they obey the same laws of organic chemistry.

AURION BSA-c™: EFFECT ON CHARGE DETERMINED BACKGROUND

AURION developed AURION BSA-c™: a chemically modified Bovine Serum Albumin having an increased net negative charge by acetylation of amino groups of basic amino acids.

The use of AURION BSA-c™ at a concentration as low as 0.01% in the diluted gold conjugate inhibits binding to poly-l-lysine coated grids almost completely.
AURION BSA-c™ will improve signal-to-noise ratios independent of the immunodetection system being used.

Important Note:

Use AURION BSA-c™ as incubation buffer additive. Not as blocking buffer additive (also see suggested incubation protocol). When used in the blocking step AURION BSA-c™ may reduce signal intensity. In some cases where excessive blocking is needed AURION BSA-c™ may be beneficial. For questions contact our helpdesk via <http://www.aurion.nl>.

A special AURION NEWSLETTER dealing with the topic of background is available on request.

SUGGESTED INCUBATION PROTOCOL:

Incubation buffer:
PBS (10mM Phosphate buffer, 150mM NaCl), 0.1% BSA-c™
adjust pH to 7.4 (with 1M HCl)

1. Aldehyde inactivation
PBS with 50 mM Glycine, pH 7.4, 20 minutes
2. Block step
PBS with 5% BSA, 5% normal serum (same species as secondary antibody source) and 0.1% cold water fish skin gelatin for 10-30 minutes. This block buffer is also available as ready-to-use solution from Aurion (see auxiliary products).
3. Wash step
Incubation buffer 3x5 minutes
4. Primary antibody incubation
1-5 µg/ml primary antibody in incubation buffer, 30-60 minutes
5. Wash step
Incubation buffer 6x5 minutes
6. ImmunoGold incubation

ImmunoGold reagent diluted according to prescription in incubation buffer, 30 minutes - 2hrs.

7. Wash step
Incubation buffer 6x5 minutes
8. Wash step
PBS 3x5 minutes
9. Optional: post fixation
2% Glutaraldehyde in PBS, 10 minutes

NOTE:

AURION BSA-c™ comes as a high pH solution (pH 9-10). After adding AURION BSA-c™ to a buffer solution, pH will increase. Therefore always check the pH of your incubation buffer and adjust to pH 7.4 with hydrochloric acid!

The solution occasionally shows slight precipitation, which has no negative influence on background reduction. You may filter the AURION BSA-c™c buffer solution using a cellulose acetate filter (0.2-0.8µm) prior to use.

AUXILIARY PRODUCTS

CODE	DESCRIPTION
905.001	Basic blocking solution, 30ml
905.002	Blocking solution for Goat gold conj., 30ml
905.003	Blocking solution for Rabbit gold conj., 30ml
905.004	Blocking solution for Sheep gold conj., 30ml
905.005	Blocking solution for Donkey gold conj., 30ml
900.011	Bovine serum albumin fraction V, 25g
900.033	Cold Water Fish Skin Gelatin (40%), 10ml
900.066	Normal Rabbit Serum, 5ml
900.077	Normal Goat Serum, 5ml
900.111	Normal Sheep Serum, 5ml
900.122	Normal Donkey serum, 5ml



AURION

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