COL-AURION TOTAL PROTEIN STAIN

APPLICATION AREA: BIO ASSAYS

PRODUCT INFORMATION

COL-AURION is a total protein stain that is based on the charge determined binding between positive charges in proteins at low pH (3-4) and negatively charged acetylated BSA (AURION BSA-C). The linearized and acetylated BSA molecules have been coupled to colloidal gold particles of approximately 15 nm. By shielding off the surface of the gold particles, staining characteristics are determined by the AURION BSA-C coating. Hydrophobic interactions between gold particle surface and substratum, which may generate background, are thus prevented.
The gold stained acetylated AURION BSA-C has been dissolved in 50 mM citrate buffer at pH 3.2 and is ready-to-use.
The use of COL-AURION is limited to proteins bound to a negatively charged substratum.

Store at 4°C.
Do not freeze!

ADDITIONAL REAGENTS

PBS with 0.1% TWEEN-20®
0.1% TWEEN-20® in distilled water

STAINING PROCEDURE

BE CAREFUL not to contaminate the substratum! The use of clean disposable gloves is recommended.

1 The substratum with the proteins is transferred to a Petri-dish and rinsed in PBS containing 0.1% TWEEN-20® for 30 minutes at 37°C in order to remove the surplus of weakly bound proteins.

2 Rinse with 0.1% TWEEN-20® in distilled water at 37°C for 1-2 minutes in order to prevent re-attachment of free proteins.

3 Rinse twice in distilled water for 1-2 minutes at room temperature.

4 Apply the COL-AURION total protein stain in such an amount that the substratum is well covered and submerged.

5 Standard staining is performed at room temperature and lasts for 1-2 hrs while rocking. Staining may be speeded up by elevating the temperature to 37°C.

6 When staining is completed the remaining COL-AURION is discarded and the substratum is rinsed 3 times with distilled water for 5 minutes each and air-dried.

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