

BSA Removal Kit

Catalog No.: AC055-001

Quantity: 1 set

Reaction: 1 ml Kit

Kit Contents: AC055-001-A1: 1 x vial BSA Removal Buffer*
AC055-001-B1: 1 x vial Re-suspension Buffer

Background: Bovine Serum Albumin (BSA) is often added to purified antibodies as it is an effective stabilizer. However, when labeling antibodies, the BSA becomes a hindrance, as it directly competes with the antibody to attach to the label, greatly reducing the conjugation efficiency. Therefore, prior to undertaking labeling techniques, it is essential to remove the BSA.

Common commercial BSA removal techniques can involve many laborious steps. The BSA Removal Kit is a simple 1 step, 10 minute method which effectively separates the BSA from the antibody and the BSA Removal Kit can be used on any antibody sub-type or species.

Frequently asked Questions:

Q1. How much BSA can the BSA Removal Kit remove?

This 1ml kit can remove all of the BSA from up to 1.25ml of antibody, with a BSA concentration of 0.5% or less. For higher BSA concentrations, the method may need to be repeated, or a higher volume of BSA Removal Buffer may be required. Larger kit sizes could be provided if this is the case (see Q2).

Q2. Are larger pack sizes available?

Yes, specific pack sizes are available on request. Please contact our Technical Support Team for advice on specific pack sizes.

Q3. Can the BSA Removal Kit remove gelatin from my sample?

No, the kit is specifically designed for the removal of BSA. It is effective on some other buffers (see Q4), but is not effective on gelatin.

Q4. Could I use the BSA Removal Kit to remove Tris or Glycine from my antibody?

Yes, the kit will effectively separate the antibody in this situation. See section 5: Buffer composition for more information on suitable buffers for use with the kit.

Q5. Can the kit be used to purify antibody from TCS or serum?

No, the kit is not specific enough to the antibody to be used as a purification technique in this instance.

Q6. Can the BSA Removal Kit be used to concentrate a sample?

Yes, once the separation is complete, the antibody pellet can be recovered using any volume, to reach the desired final concentration.

Q7. Could the kit have any negative impact on the conjugation efficiency?

No, the BSA Removal Buffer has no effect on antibody conjugation using Lightning-Link® or Lightning-Link® Rapid kits.

Protocols:

Removal of BSA

1. For every 100µl of antibody to be treated, add 80µl of the BSA Removal Buffer directly to the antibody solution.
2. Mix and incubate for 5 minutes at room temperature.
3. Spin the sample in a microfuge, at a recommended maximum speed of 13,000g for 5 minutes, until a pellet is formed**

Note: **Required spin time will vary depending on buffer composition and speed.

4. Remove the supernatant. The supernatant can be kept on ice until a positive outcome is confirmed.
5. Re-suspend the pellet using the Re-suspension buffer provided, or another buffer suitable for the labeling process.

Pre-Reaction considerations

Antibody/ BSA concentration: The BSA Removal Kit can separate BSA from antibody solutions with antibody concentrations from 0.03mg/ml to 10mg/ml. Separation is more efficient at higher antibody concentrations. BSA can be effectively separated when present at concentrations of up to 0.5%. If BSA is present at higher concentrations, dilute the antibody mix with de-ionised, distilled water until BSA concentration is 0.5% or less.

Buffer composition: Buffers such as MES, Tris and PBS are compatible with the kit and common non-buffering salts (e.g. NaCl) have no adverse effect on the separation. Glycerol up to 20% has no effect.

The BSA Removal kit is effective with buffers between pH 6.0 and pH 8.0. If the buffer is outside the suggested pH range, please contact the Technical Support Team.

Add. Information:

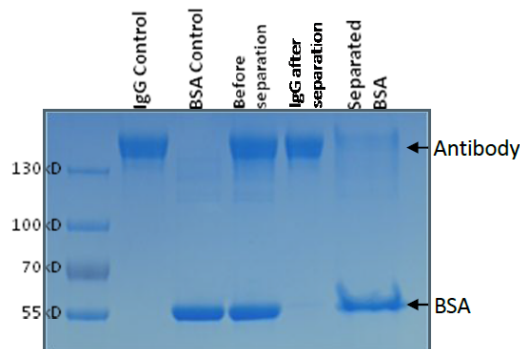
* This buffer may contain precipitated material. In the event of this happening simply warm the buffer to re-dissolve contents.

Storage:

This kit is shipped at ambient temperature.
Upon receipt, store kit at ambient temperature.
Shelf life: one year from despatch.

Pictures:

The image is an SDS-PAGE Gel showing the use of the BSA Removal Kit on a mixture containing 1mg/ml IgG and 1mg/ml BSA. The gel shows the mix before and after separation.



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