

Block Ace Powder (Blocking Reagent)

Product Data Sheet

Cat. No.:	UK-B80	UK-B40	UK-B500
	20 x 4 g	1 x 40 g	1 x 500 g

Description

Block Ace is a blocking agent prepared from bovine milk proteins (lactoprotein). Since lactoprotein contains a lot of hydrophobic groups, it shows a high affinity to plastic, membrane filter, etc. Block Ace exhibits a superior blocking effect on nonspecific adsorption of antigens or antibodies in the ELISA, RIA and immunoblocking methods compared with conventional blocking agents such as BSA (Bovine Serum Albumin).

Features

Since this product has high blocking effects and maintains the background at a low level, it is useful for low-concentration measurement such as ELISA.

- Heat-treated and thus bovine-derived antibodies, enzymes and viruses are inactivated.
- It is stable for heat and freezing.
- It can stabilize physiologically active substances and can be used as a diluting agent.
- Compared with BSA solution, it is economical.
- It can be rapidly dissolved in water.

Reconstitution

Four (4) grams of Block Ace powder is dissolved into 100 mL of purified water, and this solution is used as a concentrate.

Application Recommendations

- **ELISA Blocking:** A blocking solution for ELISA is prepared by diluting the reconstituted solution 4-fold with distilled water.
- **Western Blot Blocking:** For a blocking solution for Western Blot, use undiluted reconstituted solution.
- **ELISA Washing Solution:** For washing operation in the B/F separation, etc., dilute the reconstituted solution 10-fold with distilled water and add Tween20 to make a final concentration of 0.05 - 0.2%.
- **Diluent:** For dilution of test sample and second conjugated antibody, dilute the reconstituted solution 10-fold with distilled water.

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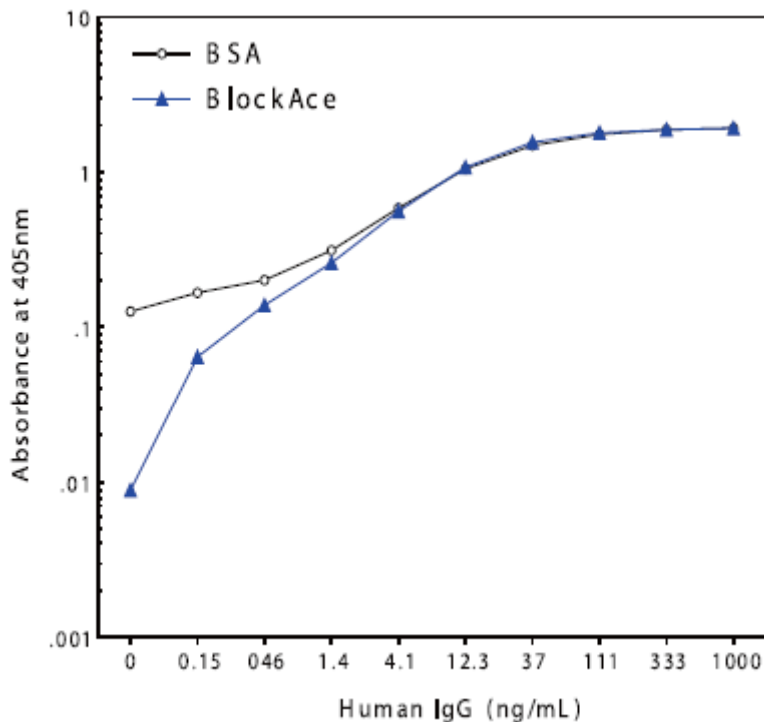
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Comparison of blocking effects between Block Ace and 1% BSA solution

Anti-human kappa-chain antibodies and anti-human lambda-chain antibodies are coated, and it is blocked with either Block Ace or 1% BSA. Human IgG ELISA demonstrates that Block Ace has low background and a steep standard curve (*Hiroshi, S. et al., Report of Snow Brand Milk Products Co., Ltd, Research Laboratory*).



Storage

Prior to reconstitution store at +4°C. This product is heat treated, but there is no preservative or antibiotic. Once dissolved, it should be frozen before storage.

Usage

This product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

Manufacturer

KAC Co., Ltd., Kyoto-city 603-8432, Japan

Distributor

Ilex Life Sciences LLC, Candler, NC 28715, United States

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