Block Ace powder

株式会社ケーエーシー

Product Datasheet

20 x 4g: Cat. No. UK-B80
40 x 4g: Cat. No. UK-B160
1 x 500g: Cat. No. UK-B500

This product is prepared from milk protein and is a novel blocking agent for immunology experiments. Since milk protein contains many hydrophobic groups, it shows high affinity to plastic and membrane filters.
Therefore, compared with conventional blocking agents such as bovine serum albumin (BSA)*, it is suitable for blocking nonspecific binding of antigens or antibodies when conducting Enzyme-Linked Immunosorbent Assay (ELISA) and Radioimmunoassay (RIA) and an immunoblotting method.

*BSA: bovine serum albumin

Key characteristics
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.

- It is heat-treated and bovine-derived antibody, enzyme 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.

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

Blocking: For blocking purpose, either concentrate or 2-4× diluted solution with purified water is used (4× diluted solution is used for ELISA; concentrate is used for Western Blotting).

Dilution: For dilution of samples and labelled antibody, it is diluted to 10× with purified water.

Washing: For washing operation such as B/F separation, it is diluted to 10× with purified water, and the required volume of Tween 20 (0.05%–0.2%) is added.

Storage method
Room temperature (it is cold transported)
(This product is heat treated, but there is no preservative or antibiotic. Once dissolved, it should be frozen before storage)

Comparison of blocking effects between Block Ace and 1% BSA solution
Anti-human kappa chain antibody and anti-human ramda chain 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.

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