



PRODUCT SPECIFICATION

Protein A Biotin Conjugate – 1.0 mg

PRODUCT CODE: X-CON-0008-1.0MG

STORAGE: 2 - 8 °C

PRODUCT DESCRIPTION

Protein A is a 42 kDa surface protein originally found in the cell wall of the bacteria *Staphylococcus aureus*. Protein A binds strongly to the Fc region of IgG from human (total IgG, IgG1, IgG2, and IgG4), mouse (IgG2a, IgG2b and IgG3), rabbit, guinea pig, pig, dog, and rhesus monkey. Biotin binds to Streptavidin with high affinity. The streptavidin-biotin bond is one of the strongest non-covalent interaction in nature, making it extraordinarily robust.

Protein A is conjugated with biotin under optimal conditions. Protein A Biotin Conjugate with subsequent streptavidin conjugate detection is useful as an enhancer reagent for detecting specified IgG in ELISA, and immunoblotting procedures.

PRECAUTIONS AND DISCLAIMER

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

FORMULATION

For shipping at ambient temperature Protein A HRP Conjugate is dried with a HEPES, NaCl, sucrose buffer base.

PREPARATION AND HANDLING

The product should be reconstituted with 100 µl water yielding a concentration of 10 mg/ml. The reconstituted stock solution can be frozen in aliquots for later usage. Stock solutions can be diluted in buffers containing > 0.1 % BSA (IgG free) as needed.

STORAGE / STABILITY

For long term storage the dry-stabilized Protein A Biotin Conjugate should be stored between 2 °C and 8 °C. Reconstituted stock solutions can be stored at 2 - 8 °C for up to 2 weeks. For long term storage, stock solutions can be frozen in working aliquots. Repeated freeze-thaw cycles should be avoided.

RECONSTITUTION AND CONCENTRATION

10 mg/ml after reconstitution with 100 µl H₂O

RECOMMENDED ELISA DILUTION

1:1000 – 1:5000 in secondary ELISA detection.

RECOMMENDED RETEST DATE

07/2021

BACKGROUND REFERENCES

1. Goding, J.W., Use of staphylococcal protein A as an immunological reagent, *J. Immunol. Methods*, 20, 241-53 (1978).
2. Wong, J., et al., Direct force measurements of the streptavidin –biotin interaction, *Biomolecular Engineering*, 16, 45-55 (1999).