



PRODUCT INFORMATION

Biotin HRP Conjugate – 1.0 mg

PRODUCT CODE: X-CON-0005-1MG

STORAGE: 2 - 8 °C, protected from sun light.

PRODUKT DESCRIPTION

Biotin binds to streptavidin and avidin with high affinity. The streptavidin-biotin bond is one of the strongest non-covalent interaction in nature, making it extraordinarily robust. Horseradish peroxidase (HRP) oxidizes corresponding substrates with high efficiency, generating colorimetric or chemiluminescent reactions and is frequently used as a reporter enzyme for sensitive assays like ELISA, immunohistochemistry, western blot, southern blot or in situ hybridization. HRP is conjugated with biotin under optimal conditions. Biotin HRP Conjugate is useful as a secondary reagent for detecting biotin binding molecules in ELISA, immuno-blotting and immunohistochemistry 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 Streptavidin HRP Conjugate is dried with a HEPES, NaCl, sucrose buffer base.

PREPARTION AND HANDLING

The product should be reconstituted with 100 µl water yielding a concentration of 1 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 as needed. Avoid exposure to sodium acid.

STORAGE / STABILITY

For long term storage the dry-stabilized Streptavidin HRP 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

1.0 mg/ml after reconstitution with 100 µl H₂O

RECOMMENDED ELISA DILUTION

1:1000 – 1: 5000 in secondary ELISA detection. For optimal performance the reagent should be titrated for each application.

RECOMMENDED RETEST DATE

09/2022

BACKGROUND REFERENCES

1. Wong, J., et al., Direct force measurements of the streptavidin –biotin interaction, *Biomolecular Engineering*, 16, 45-55 (1999).