



## PRODUCT INFORMATION

### Streptavidin HRP Conjugate - 0.125 mg

PRODUCT CODE: X-CON-0002-0.125MG

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

### PRODUCT DESCRIPTION

Streptavidin binds to biotin 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. Streptavidin is conjugated with horseradish peroxidase under optimal conditions. Streptavidin HRP Conjugate is useful as a secondary reagent for detecting biotinylated molecules in ELISA, immunoblotting 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 H<sub>2</sub>O (concentration relates to the Streptavidin only component of the conjugate).

### RECOMMENDED ELISA DILUTION

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

### RECOMMENDED RETEST DATE

07/2021

### BACKGROUND REFERENCES

1. Wong, J., et al., Direct force measurements of the streptavidin –biotin interaction, *Biomolecular Engineering*, 16, 45-55 (1999).
2. Sakharov, I., Microplate Chemiluminescent Assay for DNA Detection Using Apoperoxidase-Oligonucleotide as Capture Conjugate and HRP-Streptavidin Signalling System, *Sensors* 18, 1289 (2018)