

Recombinant Streptavidin, Liquid (rStreptavidin, Liquid)

ChemWhat Technical Data Sheet (TDS)

Catalog Number: 1005-01L

Source: Recombinant streptavidin from Streptomyces avidinii, produced in Escherichia coli.

Molecular Weight: ~52,000 per tetramer.

Quantity: 10mg/100mg Concentration: See label.

AA Sequence: MAEAGITGTW YNQLGSTFIV TAGADGALTG TYESAVGNAE SRYVLTGRYD

SAPATDGSGT ALGWTVAWKN NYRNAHSATT WSGQYVGGAE ARINTQWLLT

SGTTEANAWK STLVGHDTFT KVKPSAAS

A₂₈₂ of 0.1% solution: 3.1

Purity: > 98 % by SDS-PAGE and HPLC analyses Specific Activity: > 17 U/mg (one unit binds 1 μg D-biotin)

Physical Appearance: Sterile Colorless liquid.

Formulation: Supplied as a 0.2 µm filtered concentrated sterile solution in 20 mM potassium dihydrogen phosphate

buffer, pH 6.5.

Endotoxin: Less than 0.1 EU/μg of rStreptavidin as determined by LAL method.

Proteolytic Activity: <10⁻³ U/mg protein (Azocoll, 25 °C, 24 h, pH 8.0)

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Refer to lot specific COA for the Use by Date when stored at ≤ -20 °C as supplied.

12 months, -20 to -70 °C under sterile conditions after opening.

Usage: ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Streptavidin

Streptavidin is a tetrameric protein composed of identic subunits. Each subunit binds one biotin molecule with a KD of $\sim 1 \times 10^{-15}$ M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties concerning homogeneity, solubility, resistance towards proteolytic degradation and accessibility of the biotin binding pocket as compared to native streptavidin.

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