

PrimeGene Technical DataSheet

Catalog Number:	1005-01L
Source:	Recombinant streptavidin from <i>Streptomyces avidinii</i> , produced in <i>Escherichia coli</i> .
Molecular Weight:	~52,000 per tetramer.
Size:	10mg/ 100mg/ 1g
Concentration:	See label.
AA Sequence:	MAEAGITGTW YNQLGSTFIV TAGADGALTG TYESAVGNAE SRYVLTGRYD SAPATDGSGT ALGWTVAWKN NYRNAHSATT WSGQYVGGAE ARINTQWLLT SGTTEANAWK STLVGHDFTFT 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. <ul style="list-style-type: none">● 6 months from date of receipt, -20 to -70 °C as supplied.● 3 months, -20 to -70 °C under sterile conditions after opening.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Streptavidin

Streptavidin is a tetrameric protein composed of identical 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.