IBA Lifesciences GmbH
Rudolf-Wissell-Str. 28
37079 Goettingen
Germany
Tel. +49 (0) 551-5 06 72-0
info@iba-lifesciences.com
www.iba-lifesciences.com

Data Sheet

Streptavidin

Cat. No.: 2-0203-000, 2-0203-001, 2-0203-010, 2-0203-100, 2-0203-101, 2-0203-105

Version: 8.2
Revision Date: 07.07.2021

Description	**Streptavidin is a tetrameric protein composed of identic subunits. Each subunit specifically binds one biotin molecule with a K_D of 4 x 10^{-14} M. The preparation contains an N- and C-terminal shortened variant (core streptavidin) with improved properties regarding homogeneity, solubility, resistance towards proteolytic degradation, and accessibility of the biotin binding pocket as compared to native streptavidin.** *
Form	lyophilized from 25 mg/ml solution in 10 mM potassium phosphate buffer pH 6.5
Extinction coefficient per subunit	ε_{280} = 41326 $M^{-1}cm^{-1}$
Specific activity	> 17 U/mg (one unit binds 1 µg D-biotin)
MW per subunit	13331 Da
Sequence	MEAGITGTWYNQLGSTFIVTAGADGALTGTYESAVGNAESRYVLTGRYDSAPATDGSGTALGW TVAWKNNYRNAHSATTWSGQYVGGAEARINTQWLLTSGTTEANAWKSTLVGHDTFTKVKPSAAS
Source	Recombinant, expression in *E. coli*
Stability	24 months after shipping (lyophilized)
Storage	Lyophilized: -25 °C to -15 °C Dissolved: 2 - 8 °C, for long term storage add 1 mM EDTA and/or 0.02% NaN_3 or pass the solution through a sterile filter.
Shipping	room temperature
Reconstitution	Dissolve with water (dissolved at 10 mg/ml, the solution will be buffered with 4.0 mM potassium phosphate pH 6.5). Any occurring turbidities are not a quality defect.
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
Application	To generate streptavidin-coated surfaces (microplates, SPR chips, beads) or detection reagents conjugated with, e.g., fluorescent dyes

* Pähler, A. et al. (1987). J. Biol. Chem. 262, 13933-13937; Bayer, E. A. et al. (1989). Biochem.J. 259, 369-376; Sano, T. & Cantor, C. R. (1991). BBRC 176, 571-577

For research use only