

Certificate of Analysis

KPL Peroxidase Labeled Streptavidin

PART Code 5270-0029 (14-30-00)
Lot No. 10574843
SIZE 0.5 mg

DESCRIPTION Streptavidin is a 60,000 dalton protein isolated from the bacterium *Streptomyces avidinii* and binds four molecules of biotin with high affinity ($K_d = 10^{-15}$ M). Streptavidin is covalently linked with peroxidase by a modification of the periodate method of Nakane and Kawaoi.

FORM/STORAGE Lyophilized. Store refrigerated at 2 - 8°C until rehydrated.

CONTENT Each vial contains 0.5 mg of Streptavidin.

E/P RATIO Molar enzyme to Streptavidin protein ratio = 2.5:1

SPECIFICITY Tested by ELISA techniques as applicable. This product has been shown to bind four molecules of biotin with high affinity ($K_d = 10^{-15}$ M).

STABILIZERS AND PRESERVATIVES Bovine serum albumin (BSA) added as protein stabilizer. No preservatives added. Non-sterile.

STABILITY Stable for one year from date of receipt when stored properly.

DATE OF MANUFACTURE 23 NOV 2021

Approval:

A handwritten signature in black ink, appearing to read "M. Waki".

Quality Assurance

08 DEC 2021

Date