

# Certificate of Analysis

## KPL Peroxidase Labeled Streptavidin

<b>PART Code</b>	5270-0029 (14-30-00)
<b>Lot No.</b>	10507552
<b>SIZE</b>	0.5 mg
<b>DESCRIPTION</b>	Streptavidin is a 60,000 dalton protein isolated from the bacterium <i>Streptomyces avidinii</i> 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.
<b>FORM/STORAGE</b>	Lyophilized. Store refrigerated at 2 - 8°C until rehydrated.
<b>CONTENT</b>	Each vial contains 0.5 mg of Streptavidin.
<b>E/P RATIO</b>	Molar enzyme to Streptavidin protein ratio = 2.5:1
<b>SPECIFICITY</b>	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).
<b>STABILIZERS AND PRESERVATIVES</b>	Bovine serum albumin (BSA) added as protein stabilizer. No preservatives added. Non-sterile.
<b>STABILITY</b>	Stable for one year from date of receipt when stored properly.
<b>DATE OF MANUFACTURE</b>	16 JUL 2020

Approval:

A handwritten signature in blue ink, appearing to read "Kimberly M. Wedlock".

Quality Assurance

03 AUG 2020

Date