

# Certificate of Analysis

## KPL Peroxidase Labeled Streptavidin

**PART Code** 5270-0029 (14-30-00)  
**Lot No.** **10639294**  
**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** 21 SEP 2022

Approval:

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

Quality Assurance

05 OCT 2022

Date