

Certificate of Analysis

For Research Use Only
Not for Human or Animal Consumption

KPL Peroxidase Labeled Streptavidin

PART CODE: 5270-0029 (14-30-00)

LOT NUMBER: 10766319

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: Product is stable for 1 year from date of receipt when stored properly.

COUNTRY OF ORIGIN: United States

DATE OF MANUFACTURE: 10 JUN 2025

Approval:

A handwritten signature in blue ink, likely of the QA manager.

QA Verified By

20 Jun 2025

Date