



PRODUCT NAME: OptiMax™ Streptavidin-Poly-Horseradish Peroxidase
Conjugate (SAv-Poly-HRP)
CATALOG NUMBER: POLY-HRP
LOT NUMBER: 00-312-57

Description

Streptavidin covalently linked to polymers of horseradish peroxidase.

Format

Lyophilized from PBS containing 125 mM Trehalose and 1.0% BSA.

Reconstitution/Handling

Reconstitute the lyophilized contents by injecting 200 µL of sterile distilled water into the vial. Allow it to stand for 10 minutes at 4°C.

Storage/Stability

The lyophilized SAv-Poly-HRP can be best stored at ≤ -20°C for a defined length of time (expiry date indicated on vial). After reconstitution, the reagent is stable for at least 2 months at 4°C when kept sterile. However, it is strongly recommended to divide the reconstituted solution into small aliquots for single use. These aliquots should be stored at ≤ -20°C. Under these conditions the reagents are stable for at least one year.

Application

The product should be used in conjunction with other buffers and substrate supplied by Siloam for Optimiser™/OptiMax™ based assay. Poly-HRP may be substituted for SAv-HRP (Cat# OMR-HRP) for improved sensitivity in Optimiser™/OptiMax™ based assays. Please see the comparison data in next page.

Recommended Use for Optimiser™/OptiMax™ Based Assays

Dilute the reconstituted SAv-Poly-HRP to **1:25** with OptiBlock™ buffer. Mix the solution gently for approximate 15 seconds and allow it to stand for 1 minute at room temperature. Apply 5 µL/well to the Optimiser™/OptiMax™ microplate and incubate 10 minutes at room temperature. Follow corresponding protocol in OptiMax Automation Plate Manual (see page 6) or Optimiser Manual Plate Manual (see page 14, step 10).

Products are supplied for Research Use Only, and use for any diagnostic purposes is expressly prohibited.

Contents	Quantity	Product number	Lot number	Storing Info
SAv-Poly-HRP	0.2 mL (after reconstitution)	POLY-HRP	00-312-57	Upon receipt store at ≤ -20°C.

Material Safety Data Sheets (MSDS) are available on the Siloam Biosciences' web site. (<http://www.siloambio.com>)

COMPARISON OF SAV-HRP AND SAV-POLY-HRP IN OPTIMISER™/OPTIMAX™ BASED ASSAY

This product is designed to improve the sensitivity (both LOD and LOQ) for assays on Optimiser™/OptiMax™ microplate. The effectiveness varies depending on the assay. Two examples are shown below.

IL-2 (pg/mL)	SAv-HRP	Poly-HRP		PSA (pg/mL)	SAv-HRP	Poly-HRP
2000	22881	33107		1000	7279	9167
666.67	11643	24123		500	3986	5339
222.22	4654	12096		250	2178	3003
74.07	1823	5218		125	1284	1715
24.69	722	1798		62.5	790	1106
8.23	336	850		31.25	556	767
2.74	267	575		15.625	430	552
0	157	222		0	279	352
LOD (pg/mL)	2.23	0.93		LOD (pg/mL)	11.7	10.0
LOQ (pg/mL)	3.87	1.60		LOQ (pg/mL)	20.7	17.7

Poly-HRP shows ~ 2x improved sensitivity with the IL-2 assay. For the PSA assay a modest improvement in LOD/LOQ is observed.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

This material is sold for Research Use Only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material. No claim of suitability for use in applications regulated by FDA is made. **No other warranties express or implied, are granted, including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non-infringement. Buyer's exclusive remedy for non-conforming products during the warranty period is limited to replacement of or refund for the non-conforming Product(s).**

There is no obligation to replace products as the result of (i) accident, disaster or event of force majeure, (ii) misuse, fault or negligence of or by Buyer, (iii) use of the Products in a manner for which they were not designed, or (iv) improper storage and handling of the Products.

SAv-Poly-HRP is supplied by U-CyTech BV.