



## Product Specification

Product name: Streptavidin-PolyHRP Stabilizer RHT (Real-time High Temperature), *ready-to-use*

Product code: #SA3-RHT

Lot Number: 183696

Storage: +4°C/+25°C; plastic (PC/PET/PETG/PP/HD-PE) or neutral/borosilicate type I glass bottles

Expiration date: 05/2024

Appearance: Transparent liquid, 0.45/0.2/0.1µm-filterable

Odor: Weak, characteristic

Preservative/anti-microbial: 5-Bromo-5-nitro-1,3-dioxane (BND), 1500 ppm

QC release (ELISA-based NSB-eliminating and detection strength boosting activity use test): Passed

NOTE: This product is for *in vitro* research or further IVD manufacturing use only.

**SA3-RHT** is a novel product comprising 100% synthetic formula. It is absolutely protein-free reagent containing no organic substances of the animal, plant, microbial or other natural origin. It does also not contain phenol compounds or other volatile organic substances having distinctively “chemical” odor. This product is non-hazardous, non-toxic, non-carcinogenic, environmentally safe unrestricted product.

**SA3-RHT** will provide real-time stability to ready-to-use SA-PolyHRP conjugates at +2°C/+8°C (beyond one year) and room temperature (at least one year). **SA3-RHT** will support SA-PolyHRP conjugates also in the very low working strength concentrations down to 200-100-50 ng/ml. Here it is however worth pointing out that we do basically not recommend using SA-PolyHRP conjugates at final working strength concentrations lower than 200 ng/ml. **SA3-RHT** will maintain activity of diluted SA-PolyHRP conjugates in working strength ready-to-use format at a level of 90-to-100% of the initial activity during at least 5 weeks stressing at 37°C (88,5% in 6 weeks at 37°C). Consequently, **SA3-RHT** makes SA-PolyHRP suitable for routine clinical IVD applications through finally making it compliant with mandatory IVD requirements on stressed/accelerated reagent stability at elevated temperatures.

**SA3-RHT** replaces **SA2-HT**.

### HOW TO USE SA3-RHT:

Dilute SA-PolyHRP conjugate to chosen working strength directly in Stabilizer. Avoid foaming. It is not necessarily recommended to re-filter prepared ready-to-use conjugate formulation. However, if re-filter, use only 0,45 µm + GF filter units. Remember, PolyHRP is **not filterable** through **0,2 µm and smaller** pore size filters. Clean PC, PET/PETG, PP, HD-PE vials/bottles are all equally applicable for storage of stabilized SA-PolyHRP conjugates diluted in SA3-RHT. Stability performance of **SA3-RHT** in glass containers has not been validated, therefore storage in glass is not recommended. PP is a preferred material for the storage container of choice.

NOTE that **SA3-RHT** is restrictedly compatible with casein based liquid formulations, e.g. **UCDB**. Huge precipitation may occur when mixing **SA3-RHT** with casein containing buffers. Although basically we do not recommend making mixtures thereof (as well as any other modifications with our ready-to-use liquid stabilizers and diluents/blockers, if not specially indicated), mixing of 1 volume **SA3-RHT** (containing pre-diluted SA-PolyHRP as intermediate conjugate concentrate) with not less than 9 volumes of **SA1** (but not **UCDB**!) will work well and may be practical in situations where application of the working strength conjugate in **SA3-RHT** is associated with larger backgrounds (usually in the complex assay systems e.g. with composite antibody/antigen coating as in HIV-1/2 4G ELISA or with multiplex capture DNA/RNA probes immobilized in gene microchips/microarrays, etc.).

Although specially developed for SA-PolyHRP, this product will also work as powerful Stabilizer with other Streptavidin conjugates (conventional HRP conjugates, luminescent and fluorescent - e.g. Cy3/5 and DyLight conjugates, etc.).