

## Avidin-Biotin-Peroxidase Complex for ELISA

**SKU:** AR1103

**Size:** 100  $\mu$ l

**Form Supplied:** Concentrated solution (100X)

**Storage Instructions:** Store at -20°C for one year from date of receipt.

Avoid repeated freeze-thaw cycles.

**Dilution ratio:** 1:100

### Application

Avidin-Biotin-Peroxidase Complex (ABC-HRP) reacts with HRP substrate to produce a blue color product. The complex can be used for in vitro quantitative and qualitative analysis of enzyme-linked immunoassays.

### Description

Avidin is a protein derived from both avians and amphibians that shows considerable affinity for biotin, a co-factor that plays a role in multiple eukaryotic biological processes. Avidin and other biotin-binding proteins, including Streptavidin and NeutrAvidin protein, have the ability to bind up to four biotin molecules.

The bond formation between biotin and Avidin is very rapid, and once formed, is unaffected by extremes of pH, temperature, organic solvents and other denaturing agents.

### Protocol

1. Bring the vial to room temperature (18-25°C) prior to use.
2. Centrifuge the vial prior to use.
3. Add 10  $\mu$ l of Avidin-Biotin-Peroxidase Complex into 990  $\mu$ l of PBS containing 2% BSA.
4. Add 100  $\mu$ l of the prepared 1x Avidin-Biotin-Peroxidase Complex into each well. Cover with the plate sealer provided and incubate for 30 minutes at 37°C.
5. Wash the plate after the incubation.
6. Add 90  $\mu$ l of HRP substrate to each well and incubate in the dark at 37°C.