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# Streptavidin-NC - Purified

**Catalog No.:** AR10507PU-L

**Quantity:** 1 mg

**Concentration:** 3 mg/ml

**Background:** Streptavidin is a tetrameric protein secreted by Streptomyces avidinii which binds firmly to biotin. Streptavidin is wilyde used in molecular biology through its unique high affinity for the vitamin biotin. The dissociation constant (Kd) of the biotin-streptavidin complex is about ~10-15 mol/L. The strong affinity recognition of biotin and biotinylated molecules has made streptavidin one of the most important components in diagnostics and laboratory kits. The streptavidin/biotin system has one of the biggest free energies of association of yet observed for noncovalent binding of a protein and small ligand in aqueous solution (K_assoc = 10**14). The complexes are also extremely stable over a wide range of temperature and pH.

**Source:** E. coli

**Format:** **State:** Liquid sterile solution containing 50% Glycerol
**Purity:** >90.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.

**Applications:** Calibrators and controls for immunoassays and western blot standards.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Description:** Recombinant Streptavidin-NC produced in *E.coli* is a single, non-glycosylated, polypeptide chain having a Molecular Mass of 24kDa.
Recombinant Streptavidin-NC not only binds to Nitrocellulose membrane readily but also preserves the full biotin binding ability.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.