

STREPTAVIDIN COATED PCR PLATES

Streptavidin coated surfaces offer a powerful and universal instrument for binding any biotinylated molecule (Proteins-Peptides-Polysaccharides-Oligonucleotides-DNA fragments-etc.)

Streptavidin is a tetrameric protein (M.W. 60 kDa) with very high affinity for biotin ($K_a = 10^{-15}$ M); the bond is the strongest known non-covalent biological interaction.

Biotin is a small molecule which can be conjugated to many proteins without losing or altering their activity, each protein can bind many biotin molecules.

Since each subunit of streptavidin binds one molecule of biotin, the resulting effect is a great increase of the sensitivity of the assay.

The streptavidin-biotin bonding main features

- stability
- specificity
- affinity

make it useful for special applications of molecules which do not offer reliable bonding by passive adsorption or adsorb in a unfavorable orientation.

Product specifications

Coating

Streptavidin is coated using 100 µl/tube. The PCR plates are post-coated (blocked) for low non specific binding and long-term stability.

Storage and Stability

The Streptavidin PCR plates, if unopened, are stable at 2-8°C until the expiration date printed on the label. If opened, store in closed pouch with desiccant and use within the expiration date.