

Smartbond Streptavidin

Catalogue Numbers: STRE-70-4803 (-01,-05,-20,-100) CAS Number 9013-20-1

1.0 Applications

Smartbond Streptavidin is intended for in vitro immuno- or molecular (DNA)-based detection methods and not for in vivo use.

2.0 Handling Instructions

2.1 Safety

Refer to the MSDS for safety instruction. For the vialled products (-01, -05, -20, -100), extra care should be taken when removing the crimp to avoid sharps injury.

2.2 Preparation of Solutions

Reconstitution of Streptavidin powder should be performed by gentle inversion.

Note : ***Aggressive agitation/vortexing of Streptavidin solutions will cause material to precipitate.***

Stock solutions of Smartbond Streptavidin (up to 20 mg/ml concentration) should be prepared using purified water. If Phosphate Buffered Saline (PBS) is preferred, the recommendation is to use chilled PBS.

Note : ***Some particulate matter may be visible but this does not represent a significant fraction of the total protein and can easily be filtered out.***

2.2.1 Vials

The vialled products (-01, -05, -20, -100) are filled according to mg of Streptavidin protein and so can be reconstituted to the required concentration based on the specified weight.

Note : ***In order to avoid loss of product, after de-crimping the vial gently prise open the rubber stopper to first release the vacuum prior to use.***

2.2.2 Bulk Powder

When preparing solutions starting from bulk powder, it is recommended that the protein concentration of the final solution is checked by absorbance at 280 nm ($A_{280\text{nm}}$ for a 1 % solution = 32).

Note : ***The dispensing/weighing of Streptavidin powder can be influenced by potential adsorption of atmospheric moisture.***

2.3 Storage

2.3.1 Before Use

The bulk powder product should be stored in a sealed container at -20 °C. Vialled products (-01, -05, -20, -100) should also be stored at -20 °C.

2.3.2 Prepared Solutions

Following reconstitution (in water or PBS), it is possible to aliquot and store solutions of Streptavidin for extended periods of time at -20 °C. If stored as a liquid in the refrigerator, an antimicrobial agent should be added to prevent microbial growth.

Effective Date : 22nd July 2016

IN-00-0131.1.0