

High capacity Streptavidin and NeutrAvidin cartridges, Thermo Scientific Pierce



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Applications

- Immobilisation of biotinylated antibodies for protein affinity purification
- Purifying proteins that bind biotinylated ligands
- Pull-down assays
- Protein:protein interaction studies
- Capturing biotinylated cell surface proteins
- Purifying biotinylated peptides
- Purifying membrane antigens in conjunction with biotinylated monoclonal antibodies
- Purification of cell surface glycoproteins using biotinylated concanavalin A
- Recovery of single stranded biotinylated DNA for dideoxy sequencing

The Thermo Scientific Pierce high capacity Streptavidin and Neutravidin chromatography cartridges are convenient, pre-packed and ready-to-use devices for separating biotinylated molecules from non-biotinylated molecules and for purifying antigens using biotinylated antibodies.

The resins have 2 to 3 times higher binding capacity than the standard streptavidin agarose resin and are ideal when a high amount of recovery is required. The cartridges are effective for assay development and immunoprecipitation and for physically separating DNA strands produced in a polymerase chain reaction by incorporating biotin in one of the amplification polymers.

These cartridges enable fast, easy and reproducible chromatographic separations and are compatible with the major automated liquid chromatography systems or manual syringe processing. The cartridges attach directly to ÄKTA™ or FPLC systems without additional connectors. The included accessory pack readily adapts cartridges for use with Luer-Lok® syringe fittings or 1/16 inch tubing.

Catalogue No	Description	Quantity
PN87739	Pierce high capacity Streptavidin chromatography cartridge Support: 6% highly crosslinked fast-flow agarose supplied in 0.02% sodium azide. Binding capacity: ≥10mg biotinylated BSA/mL resin; ≥100µg biotin para-nitrophenyl ester/mL resin	2 x 1mL
PN87740	Pierce high capacity Streptavidin chromatography cartridge Support: 6% highly crosslinked fast-flow agarose supplied in 0.02% sodium azide. Binding capacity: ≥10mg biotinylated BSA/mL resin; ≥100µg biotin para-nitrophenyl ester/mL resin	1 x 5mL
PN87741	Pierce high capacity NeutrAvidin chromatography cartridge Support: 6% highly crosslinked fast-flow agarose supplied in 0.02% sodium azide. Binding capacity: ≥8mg biotinylated BSA/mL resin; ≥75µg biotin para-nitrophenyl ester/mL resin	2 x 1mL
PN87742	Pierce high capacity NeutrAvidin chromatography cartridge Support: 6% highly crosslinked fast-flow agarose supplied in 0.02% sodium azide. Binding capacity: ≥8mg biotinylated BSA/mL resin; ≥75µg biotin para-nitrophenyl ester/mL resin	1 x 5mL

Immobilised streptavidin products, Thermo Scientific Pierce



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Same high biotin-binding affinity as avidin with low non-specific binding.

- Resins made with recombinant streptavidin
- Purification of membrane antigens in conjunction with biotinylated monoclonal antibodies
- Cell surface labelling with biotinylation reagents, followed by precipitation with immobilised streptavidin
- Purification of cell surface glycoproteins using biotinylated Concanavalin A
- Recovery of single stranded DNA for dideoxy sequencing

Streptavidin has largely replaced the use of avidin as the preferred biotin-binding protein. Because it is not glycosylated like avidin, streptavidin exhibits much lower non-specific binding in typical applications involving biological samples.