

Thermo Scientific MSIA Streptavidin D.A.R.T.'S

Design customized MS-based assays for target proteins, peptides, and antibodies

- Easy to use - Simple format to capture any biotinylated affinity protein or peptide. Then, enrich target biomolecule for MS-based assays
- Saves time - Efficiently automate workflows for high-throughput, standardized, and reproducible MS-based assays
- Cleaner data - Innovative sample interface technology reduces matrix loss, reagent carryover and unwanted interferences for greater MS data confidence



The streptavidin-biotin complex is one of the strongest non-covalent interactions in biology. Take advantage of this high affinity binding event to capture biotinylated affinity reagents and ultimately enrich target biomolecules with Thermo Scientific™ MSIA™ Streptavidin D.A.R.T.'S® – the first step in targeted-MS immunoassay development with the MSIA Platform.

The MSIA (Mass Spectrometric Immunoassay) Platform is a versatile and customizable workflow for mass spectrometry-based assays for the qualitative and quantitative analysis of proteins and peptides. The MSIA Platform consists of the following key components:

(1) Proprietary affinity tip technology, (2) automated liquid handling, and (3) high-resolution LC/MS instrumentation for data analysis.

The MSIA Streptavidin D.A.R.T.'S (Disposable Automation Research Tips) are an integral part of the MSIA platform and the primary sample interface for capture of biotinylated biomolecules. Streptavidin is covalently linked to a porous monolithic solid support in the distal end of the MSIA pipette tip. Analytes are enriched by the immobilized streptavidin-biotin conjugated complex, washed, and eluted to provide concentrated MS-ready samples.



Product specifications

Immobilized Streptavidin (% CV)	4.0 µg/tip (< 15%)
Binding capacity of biotinylated antibodies, based on biotinylated-IgG (% CV)	2.5 µg/tip (< 15%)
Binding capacity of biotinylated proteins, based on biotinylated-BSA (% CV)	2.0 µg/tip (< 15%)
Binding capacity of biotinylated peptides, based on biotinylated-ACTH (% CV)	1.0 µg/tip (< 15%)
Stability	18 months at 4 °C

Ordering information

MSIA Streptavidin D.A.R.T.'S

Compatible with the Thermo Scientific Versette Automated Liquid Handler and Thermo Scientific Finnpipette Novus i Multichannel Electronic Pipette

Thermo Scientific Cat. No.	Description
991STR11	MSIA Streptavidin D.A.R.T.'S (96 tips)
991STR12	MSIA Streptavidin D.A.R.T.'S (24 tips)
650-01-BS	Versette™ Automated Liquid Handler
991SP12	Finnpipette® Novus i Electronic 12-Channel Pipette and Adjustable Pipette Stand

www.thermoscientific.com/msia

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