

Target Syringe Filters

Snap-It

Bonded Caps

Target DP

Color Band

Target Syringe Filters

National Scientific Target Syringe Filters assure product performance and reproducibility through a vigorous quality testing program that challenges each type of filter to provide interference-free results. New sample distribution rings promote uniform application of the sample across the membrane area. This feature maximizes the available filtration area, and reduces back pressure when filtering samples high in particulates.

NS Certified

Target Syringes

Crimp Seals



Target DP

LoVial

SepCap

- New 30mm and 17mm filter format allows up to 50% more sample throughput compared to competitive products
- Even sample distribution by the newly designed sample distribution rings
- Enhanced female Luer-Lok® assures safe and secure connections
- Lot tested for bubble point, burst pressure, membrane retention and flowrate
- Membranes available include Nylon, PTFE, PVDF, Regenerated Cellulose, PES, Glass MicroFiber, Cellulose Acetate and Polypropylene

Polyspring Inserts

NS Certified

Microsert

Robo Vial

Micro-V



NS Certified

Target DP

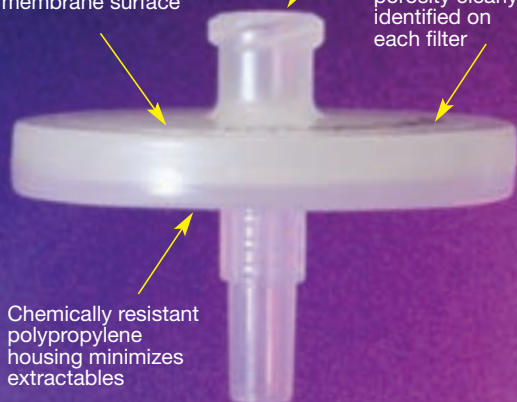
Comprehensive quality systems ensure interference-free results

Enhanced female Luer-Lok® design assures safe and secure connections

Sample Distribution rings distribute sample for maximum speed and uniform filtration across membrane surface

Membrane type and porosity clearly identified on each filter

Chemically resistant polypropylene housing minimizes extractables



Target

HPLC Syringe Filters

Target Syringe Filters have been improved for even greater performance and sample throughput. National Scientific's Continuous Improvement Program has resulted in our new re-designed Target Filters that now provide industry-leading levels in sample loading and filter efficiency.

Target's new 30mm and 17mm filter formats provide superior throughput and sample loading over standard, competitive 25mm and 13mm filters. Now you can process up to 50% more sample before reaching maximum sample loading for our new 30mm filters.

The new sample distribution rings promote uniform application of the sample across the membrane area. This feature maximizes the available filtration area, speed and reduces backpressure when filtering highly particulate samples. Our new, automated manufacturing process ensures uniformity and reliability more than ever before. Our new methods eliminate variable results through controlled manufacturing consistency from batch to batch, filter to filter.

Performance Filtration Assurance

Improved Target Filters assure product performance and reproducibility through a vigorous quality testing program that challenges each type of filter to provide interference-free results. Every production lot is quality monitored:

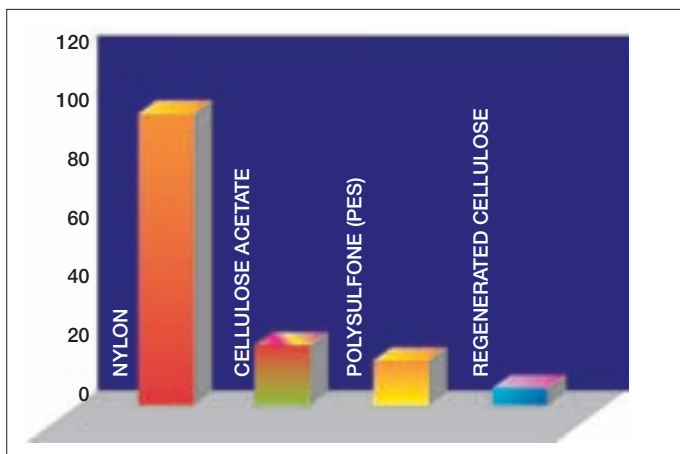
- **All critical filter performance specifications confirmed;** bubble point, burst pressure, membrane retention, flowrate.
- **HPLC performance and reproducibility;** actual NIST-traceable standard run confirmed for baseline, peak area/shape, retention time.
- **Actual filter efficiencies for sample;** standard sample spectrophotometrically tested for efficiency and performance.
- **Retention samples maintained for six months;** your actual filter lot used to answer application or performance inquiries.



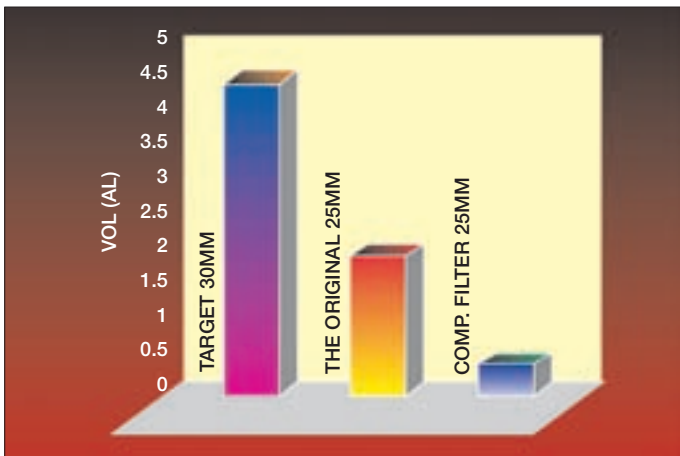
Protein Binding of Biological Samples

Target's Regenerated Cellulose syringe filters possess superior characteristics for the filtration of biological samples or high binding analytes. Our Regenerated Cellulose filters have low membrane zeta potentials to provide ultra-low biological based binding coefficients, to maximize sample yield after filtration. No binders, surfactants or wetting agents are used, eliminating a source of contamination. Hydrophilic Regenerated Cellulose also exhibits excellent chemical resistance and high flowrates when compared to Polysulfone and Cellulose Acetate filters normally used in biological assay filtration.

BINDING CHARACTERISTICS of VARIOUS MEMBRANES
(Binding in $\mu\text{g}/\text{cm}^2$ of G-Globulin)



Throughput Volume Comparison 30mm Target Syringe Filters

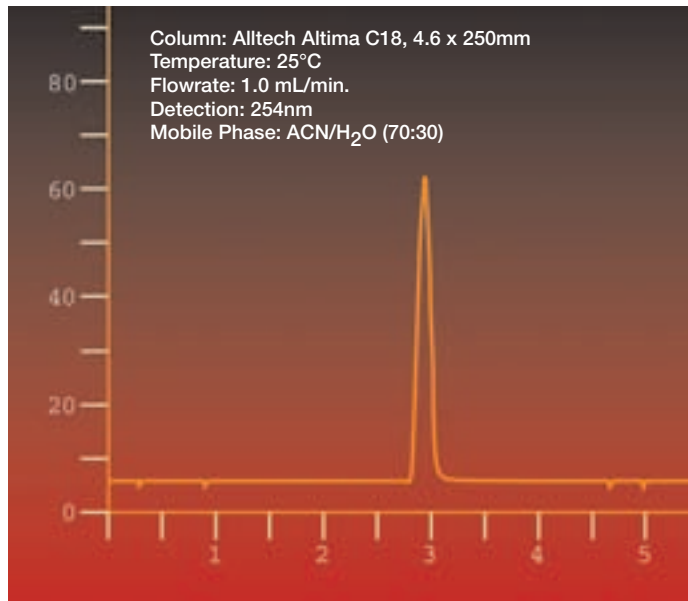


Our new filter permits more sample to be processed before filter overload. This is a considerable improvement in throughput volume compared to our first generation Target filters or competitive products.

Filter Type Volume

Improved Target Nylon, 0.45µm, 30mm, with prefilter	4.71 ± 0.9mL
Older version Target Nylon, 0.45µm, 25mm, prefilter	2.50 ± 0.2mL
Competitive 25mm Nylon, 0.45µm filter	0.49 ± 0.1mL

Validated HPLC Performance-Caffeine (4µg/mL)



Target's quality assurance program utilizes a NIST traceable standard to ensure chromatographic performance. Our enhanced testing goes far beyond industry testing for quiet baselines. Each lot of Target filters is tested for peak area, retention time, and peak shape of our traceable standard. Now you can be assured of industry-leading and confirmed chromatographic performance and reproducibility lot to lot and filter to filter.

