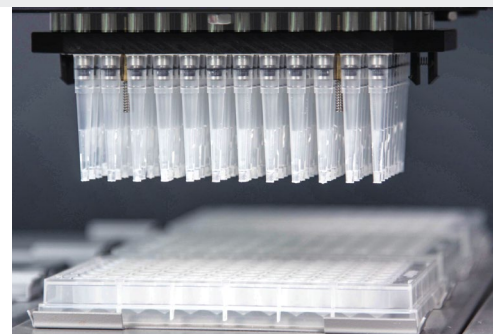


WHO WE ARE

PhyNexus provides life science researchers automation solutions for high throughput sample processing in drug discovery and screening using our PhyTip® columns with our propriety Dual Flow Chromatography technology. We are a worldwide leader in providing solutions for automated protein purification, nucleic acid purification, and sample prep, supporting many high throughput applications. PhyTip columns are used by top tier pharmaceutical companies for drug target discovery and validation, drug screening and lead optimization, drug development, clinical trials, and drug manufacturing.

We specialize in automated high-throughput protein and plasmid purification

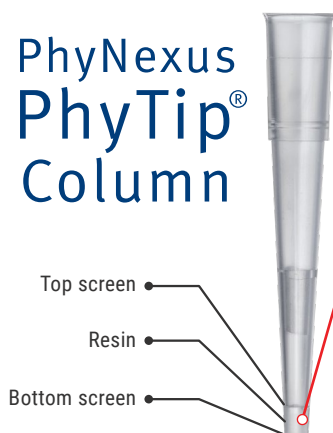
- » Any sample volume
- » Any column size
- » High Purity
- » Scalable
- » Reproducible



OUR TECHNOLOGY

PhyNexus PhyTip® columns used with our Dual Flow Chromatography provide complete antibody binding for highly concentrated sample recovery from small samples and can be used in all major 8, 12 or 96-channel liquid handling robotic systems.

PhyNexus PhyTip® Column



	PhyNexus DUAL FLOW CHROMATOGRAPHY
Binding Efficiency	
Complete Binding	✓
High Elution Concentration	✓
Any Sample Volume	✓
Any Column Size	✓
Predictable & Scalable	✓
Automated High-Throughput	✓

	Spin Columns	Magnetic Beads
Binding Efficiency		
Complete Binding	✗	✗
High Elution Concentration	✗	✗
Any Sample Volume	✗	✗
Any Column Size	✗	✗
Predictable & Scalable	✗	✗
Automated High-Throughput	✗	✓

ROBOTICS AUTOMATION

PhyTip columns can be used with all major 8, 12, and 96-channel automation liquid handling robots including Agilent Technologies, Beckman Coulter, Dynamic Devices, Hamilton, Perkin Elmer, and Tecan



OUR PRODUCTS

PhyNexus offers over 2000 PhyTip® columns for automated high throughput purification of proteins and nucleic acids. Protein products include columns to purify antibodies, antibody fragments, tagged recombinant proteins, and peptides. Nucleic acids products include columns to purify transient transfection quality plasmids, PCR products, and genomic DNA.

Resins		Resin Volumes	Tip Volumes	Instruments
5K and 10K desalting resin	Normal Phase 1	5 µL	200 µL	AutoPlasmid MMG
C18 90Å and 300Å	Plasmid Purification	10 µL	300 µL	
C4 300Å	ProPlus (MabSelect SuRe™)	12 µL	500 µL	
CaptureSelect® IgG-Fc Hu	ProPlus LX (MabSelect SuRe LX™)	20 µL	1000 µL	
CaptureSelect® IgG-Fc ms	Protein A	40 µL		
CaptureSelect® KappaXL	Protein G	80 µL		
CaptureSelect® LC-kappa Hu	Streptavidin	160 µL		
CaptureSelect® LC-lambda Hu	Strong Anion	320 µL		
POROS CaptureSelect® IgM	Strong Cation			
Genomic Purification	Weak Anion			
Glutathione	Weak Cation			
IMAC				

Custom Resins

PhyNexus can custom pack almost any resin into a PhyTip column for all major liquid handling robots.

APPLICATIONS

PhyNexus can automate your application through our partnerships with all major robotics companies. We can provide the best high-throughput automation solution for your application, provide method and protocol development, support, installation, and training.

Protein Purification

- Protein and antibody engineering
- Lead optimization / Screening
- Expression optimization / Screening
- Affinity pull down
- Immunoprecipitation / Co-immunoprecipitation
- Chromatin immunoprecipitation
- Target discovery
- DNA encoded library screening
- Pharmacokinetic / Pharmacodynamic modeling
- Immunogenicity
- Quality control
- Library screening (fabs, scFvs, small molecules)
- X-ray crystallography, membrane proteins
- Epitope mapping
- Mass spectrometry sample prep

Nucleic Acid Purification

- Nucleic acid extraction
- Plasmid DNA purification
- Automated mouse tail genomic DNA

Method Development

- Multi-parallel formulation screening
- Protein analytics & characterization
- Process development / Continuous chromatography
- Glycan profiling
- Ion exchange chromatography
- Desalting and buffer exchange

OUR CUSTOMERS

Our customers are companies and research groups that touch people's lives.



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