 PhyNexus provides life science researchers automation solutions for high throughput sample processing in drug discovery and screening using our PhyTip® columns with our proprietary 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

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 and 96-channel liquid handling robotic systems.


WHO WE ARE


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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

- 5K and 10K desalting resin
- C18 90Å and 300Å
- C4 300Å
- CaptureSelect® IgG-Fc Hu
- CaptureSelect® IgG-Fc ms
- CaptureSelect® KappaXL
- CaptureSelect® LC-kappa Hu
- CaptureSelect® LC-lambda Hu
- POROS CaptureSelect® IgM
- Genomic Purification
- Glutathione
- IMAC
- Normal Phase 1
- Plasmid Purification
- ProPlus (MabSelect SuRe™)
- ProPlus LX (MabSelect SuRe LX™)
- Protein A
- Protein G
- Streptavidin
- Strong Anion
- Strong Cation
- Weak Anion
- Weak Cation

### Resin Volumes

- 5 µL
- 10 µL
- 12 µL
- 20 µL
- 40 µL
- 80 µL
- 160 µL
- 320 µL
- 200 µL
- 300 µL
- 500 µL
- 1000 µL

### Instruments

- AutoPlasmid MMG
- PhyNexus MEA

### 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.

**Our Customers**

- **NOVARTIS**
- **Genentech**
- **Pfizer**
- **Roche**
- **BAYER**
- **emd SERONO**
- **MERCK**
- **Johnson & Johnson**
- **dow**
- **Gilead**

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