

# Andrew+ Pipetting Robot for Released N-Glycan Analysis

## REALIZE INCREASED EFFICIENCY AND FURTHER IMPROVE CONFIDENCE IN N-GLYCAN ANALYSIS

Automation of complex sample preparation procedures can improve assay accuracy, repeatability, and reproducibility; easing the burden of analytical method validation. Released N-glycan sample preparation procedures involve multiple steps including enzymatic deglycosylation, dye labeling, and excess dye removal steps. Deviations from key parameters such as sample incubation time and temperature, as well as pipetting accuracy during critical reagent additions, can have significant impact on analytical results. Due to this complexity, Waters™ and Andrew Alliance have developed an application-specific configuration of the Andrew+ Pipetting Robot for released N-glycan analysis.

- Easy system installation and quick configuration setup with Dominos and Connected Devices
- Rapid sample processing in 1–2 hours, depending on desired sample throughput
- Flexible sample preparation by automating batches of 8, 24, or 48 samples
- Andrew+ has the flexibility to utilize any GlycoWorks™ RapiFluor-MS™ N-Glycan Kit
- Compact footprint to use on a typical bench or in most standard hoods

### Core System:

**Andrew**   
the pipetting robot



### GlycoWorks RapiFluor MS N-Glycan Kit



**OneLab**   
design & execute

### OneLab Cloud Library Protocols

#### GlycoWorks Reagent Preparation Protocol

Guided manual or Pipette+ pipetting protocol for reconstituting GlycoWorks kit reagents for the Andrew+ according to the care and use manual.

#### GlycoWorks Sample Preparation Protocol

Automatic pipetting and sample processing workflow for the denaturation, enzymatic digestion, and solid-phase extraction of released N-glycans from glycoprotein samples according to the GlycoWorks QC/Automation friendly protocol.

Additional OneLab actions available for automation of glycoprotein sample normalization.



Andrew+ Domino configuration for the automated QC GlycoWorks RapiFluor-MS protocol. Domino/Device positions on the Andrew+ working deck: (1, 2) Tip Insertion Systems, (3) Storage Plate Domino, (4) Deep-Well Plate Domino, (5) Microplate Vacuum+, (6) Microtube Domino, (7) 96-PCR Peltier+.

Note: Up to four Tip Insertions Systems can be used, depending on the number of samples processed.

# [ ORDERING INFORMATION ]

## Andrew+ Core Platform and GlycoWorks

Product	Description	Part Number
Andrew+ Pipetting Robot	Andrew+ Pipetting Robot, waste base, waste container, power supply, cables, and 1x each single and multi-channel pipette adaptors	176004567
Andrew+ Startup Kit	Intended for all new Andrew+ systems and includes Dominos, pipette adaptors, and lab kit with consumables for system installation	176004568
Pipette Kit for GlycoWorks	Includes 3x Andrew Alliance Pipettes <ul style="list-style-type: none"> <li>■ AA Single Channel 10–300 µL Pipette</li> <li>■ AA 8 Channel 10–300 µL Pipette</li> <li>■ AA 8 Channel 50–1200 µL Pipette</li> </ul>	176004569
Domino Kit for GlycoWorks	Includes additional dominos and connected devices for GlycoWorks OneLab protocol with Andrew+ automation	176004570
Vacuum Manifold Kit	Includes an optional selection of either 110v or 220v pump with manifold compatible with the Vacuum+ Connected Device	176004580 or 176004581

## Chemistry Kits

Product	Description	Part Number
Andrew+ 24-Sample GlycoWorks Appl. Kit	GlycoWorks reagent kit for processing 3x 8 sample batches, compatible with the 8-Sample GlycoWorks OneLab protocol	176003349
Andrew+ 96-Sample GlycoWorks Appl. Kit	GlycoWorks reagent kit for processing 4x 24 sample batches, compatible with the 24-Sample GlycoWorks OneLab protocol	176003350
Andrew+ 96HT Sample GlycoWorks Appl. Kit	When higher throughput is needed, analyze released N-glycans with ready-to-use reagents for processing 2x 48-sample batches, compatible with the 48-Sample GlycoWorks OneLab protocol	176003351

## Andrew+ Licenses

Product	Description	Part Number
Andrew+ Annual License	One year license to connect Andrew+ to your OneLab cloud account	176004575
Andrew+ Lifetime License	Lifetime license to connect Andrew+ to your OneLab cloud account	176004572
OneLab Stand-Alone Server	Optional stand-alone OneLab server for non-cloud deployment	176004571

## Service, Training, and Warranty

Product	Description	Part Number
Installation and Training	On-site installation and familiarization training performed by a Waters service engineer	176600007
Warranty	FlexCHOICE™ Warranty for up to 24 months	176600008

## Domino Kit for GlycoWorks

Product/Part Number	Product/Part Number
Tip Insertion Domino (3x) 186009612	Vacuum+ Connected Device 186009593
Storage Plate Domino 186009596	96-PCR Peltier+ Connected Device 186009592
Deepwell Microplate Domino 186009597	

## Andrew+ Startup Kit

Product/Part Number	Product/Part Number
Pipette Adaptor - Single Channel 186009590	Reservoir Domino 186009613
Pipette Adaptor - Multi Channel 186009591	50 mL Tube Domino 186009614
Microplate Domino 186009600	Microtube Domino 186009601
Tip Insertion Domino 186009612	

## Andrew+ Startup Kit

Product /Part Number	Description
Andrew+ Lab Kit 205002246	8-Channel Reservoir (50 pcs)
	Sartorius BH Pipette Tips 5–350 µL (10 x 96 pcs)
	Sartorius BH Tips Pipette 50–1200 µL (10 x 96 pcs)
	Sartorius BH Tips 100–5000 µL (1 x 50 pcs)
	50 mL Centrifuge Tubes (25 pcs)
	1.5 mL Microcentrifuge Tubes (500 pcs)
	Multiwell Plate, 96-Well Flat (2/pack)
Axygen Multiwell HP Reagent Reservoir (5 pcs)	

\*A full-skirted PCR plate is required, but it is not provided. Recommended part numbers are provided in the OneLab protocols for each method.