Andrew+ Pipetting Robot for OligoWorks in µElution Plates

EASY SAMPLE PREPARATION FOR ACCURATE AND ROBUST OLIGONUCLEOTIDE QUANTIFICATION

The greatest source of variability for LC-MS bio-analytical assays are the sample preparation steps needed to extract a drug and its metabolites from biofluids. The challenge of achieving consistent results is especially true for oligonucleotides sample preparations as these methods require skilled and experienced scientists to properly develop, optimize and implement them. With Oligonucleotide Therapeutics (ONTs) becoming a focus for many drug developers, there is a growing need to achieve sensitive, accurate, precise and robust oligonucleotide quantification assays.

OligoWorks^m WAX SPE Kits from Waters are designed to streamline the extraction and quantitative analysis of oligonucleotide therapeutics from biological matrices. Automating this process for μ Elution plates with the Andrew+ m pipetting robot takes this even further by providing many key benefits:

- A one-stop-shop for both top of the line chemistry and streamlined automation that work hand in hand
- A robust, easy to implement, « click and execute » automation method for quick configuration with Dominos and Connected Devices that works effectively across a wide range of oligotherapeutics
- Automation-friendly, detergent free workflow that eliminates foaming and extensive washing steps
- Fully automated SPE steps utilizing the Extraction+[™] Connected device, thus removing the burden of tedious, manual operations while ensuring reproducibility
- Up to 2X increase in recovery with better reproducibility whencompared to leading competitor

Chemistry Kit Part Numbers Relevant to Automated µElution Plate Methods		
186010614	OligoWorks Microplate-2 mg/well-KIT	
186010610	OligoWorks SPE Eluent 25 mL	
186010611	OligoWorks SPE Eluent 125 mL (5 x 25 mL)	
186010601	Rapizyme Proteinase K Digestion Module*	
186010618	OligoWorks Microplate-2 mg/well	

^{*}With the dead volumes inherent to automation, we highly recommend purchasing additional Proteinase K Digestion Modules as needed for your automated workflows.



OLIGOWORKS ONELAB™ CLOUD LIBRARY PROTOCOLS FOR µELUTION PLATES

Automation of the OligoWorks WAX SPE kit for µElution plates is adapted into two separate OneLab Cloud Library protocols for maximum flexibility.

OLIGOWORKS AUTOMATED DIGESTION METHOD

The OligoWorks Automated Digestion Method automates the sequential addition of Guanidine, TCEP and Proteinase K to up to 96 samples in a µElution plate for preparation and digestion of samples prior to SPE. The Andrew+ robot utilizes the Microplate Gripper tool in conjunction with the Heater-Shaker+ device to streamline the sample preparation while ensuring consistent results. Only one manual step is required to cap the digestion plate prior to incubation on the Heater-Shaker+ device.



176005357 - A+ OligoWorks Digest-configuration		
186010426	Plate Heater-Shaker+ Device w/ Deepwell Plate Adaptor	
186009605	8-channel 5-120 μL Connected Pipette	
186009776	Microplate Gripper Tool	
186009613	8-channel reservoir Domino	
186009597	Deepwell Microplate Domino	
<u>^</u>	Use the two Tip Insertion System Dominos included in the Andrew+ Start-up kit to complete your setup	

OLIGOWORKS AUTOMATED SPE METHOD

The OligoWorks Automated SPE Method utilizes the Extraction+ device in conjunction with the Microplate Gripper tool to fully automate the loading, washing and elution steps required for streamlined SPE following sample digestion. Consistent dilutions are then achieved by automatically transferring the collection plate to the Heater-Shaker+ for homogenization prior to analysis.



176005358 - A+ OligoWorks SPE-configuration		
186010426	Plate Heater-Shaker+ Device w/ Deepwell Plate Adaptor	
186010524	Extraction+ Pump and Manifold	
186010525	Extraction+ Manifold Collar	
186010527	Manifold Collar Lifter for Extraction+	
186009597	Collection Plate Spacer Kit	
186009776	Microplate Gripper Tool	
186009607	8-channel 10-300 μL Connected Pipette	
186009597	2x Deepwell Microplate Dominos	
	Use the two Tip Insertion System Dominos included in the Andrew+ Start-up kit to complete your setup	



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Waters Corporation 34 Maple Street Milford, MA 01757 U.S.A. T: 1 508 478 2000 F: 1 508 872 1990 waters.com