

# Elements

APPLICATION READY WORK CELLS



PURPOSE-ENGINEERED



# Convenience Abounds



# Pre-Configured With Exactly What You Need

You know that convenience is often regarded as highly as speed, reliability, and reproducibility when it comes to the most popular and integral assays in today's laboratories. This is precisely why you can rely on ELEMENTS Application Ready Work Cells from HighRes Biosolutions.



We hand-select the finest devices necessary for specific assay workflows and unite them in our renowned Nucleus® Automation Infrastructure.



Each ELEMENTS automated work cell is powered by Cellario® Whole Lab Workflow Automation Software to organize, schedule, monitor, and run all devices seamlessly.



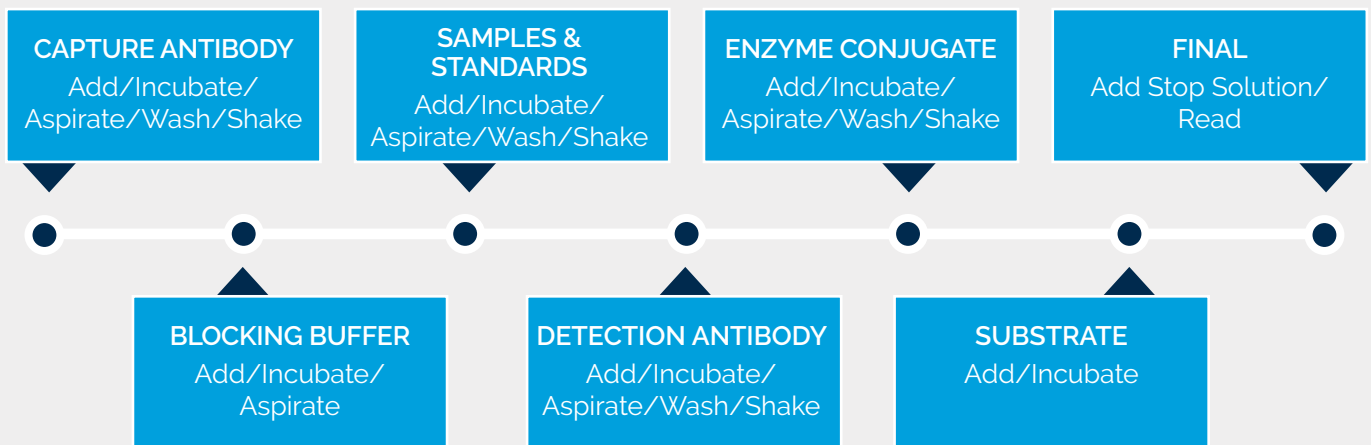
The resulting go-to solutions are sure to immediately impact lab productivity and propel your path to success.

# ELEMENTS ELISA



Your ultimate modular and automated ELEMENTS ELISA work cell centers around a Nucleus FlexCart™ mounted with an ACell™ collaborative robotic arm. ELISA enabling devices on this unique mobile mount are configured to maximize vertical space and minimize the overall footprint in crowded labs. As your needs change, devices are rapidly and easily added or removed.

## Automated ELEMENTS ELISA Work Cell Workflow Overview



# Key ELEMENTS ELISA Work Cell Components

## Table Mounted

- AmbiStore™ D Random Access Sample Storage Carousel
- Agilent Bravo, Tecan Fluent 480, or Hamilton Starlet Automated Liquid Handler (or your preferred ALH)

## Nucleus FlexCart

(includes ACell robotic arm)

- 4-Position HighRes Stationary Plate Hotel
- 2x Centrifugal Evacuators or Microplate Washer Dispensers
- Microplate Liquid Dispenser
- 2x LidValet™ High-Speed Delidding Hotel
- Microplate Reader
- 4x Microplate Incubator Shakers

## CellarioScheduler Software

- Pre-scripted, ELISA-specific protocols to get you started

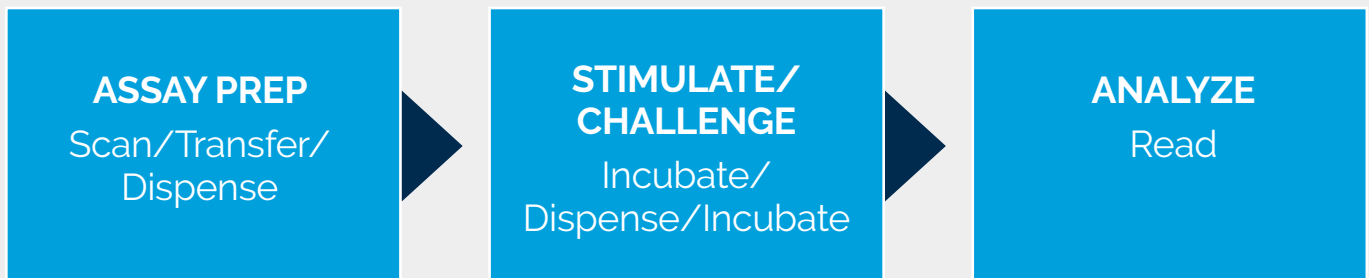


# ELEMENTS Screening



The highly capable and flexible ELEMENTS Screening work cell accommodates a wide variety of biochemical and cell-based screening workflows to propel your productivity. This automated solution includes our Nucleus FlexCart along with any supporting workflow device that you need to maximize screening efficiency and throughput in 96- to 1536-well plates. Take advantage of pre-scripted protocols in CellarioScheduler™, modify them to your liking, or start fresh with new protocols to customize your screening workflows.

## Automated ELEMENTS Screening Workflow Overview



# Key ELEMENTS Screening Components

## Table Mounted

- AmbiStore D Random Access Sample Storage Carousel (or your preferred brand)
- Agilent Bravo, Tecan Fluent 480, or Hamilton Starlet Automated Liquid Handler (or your preferred ALH)

## Nucleus FlexCart

(includes ACell robotic arm)

- 2x LidValet High-Speed Delidding Hotels
- Microplate Reader
- Microplate Washer
- Microplate Liquid Dispenser
- Automated Plate Peeler
- Automated Plate Sealer
- MicroSpin Automated Centrifuge
- 4-Position HighRes Stationary Plate Hotel
- 2x Benchtop Shakers

## Additional Table

Mounted (optional)

- Automated Incubator
- Microplate Liquid Dispenser

## CellarioScheduler Software

- Three pre-scripted, screening-specific template protocols to get you started



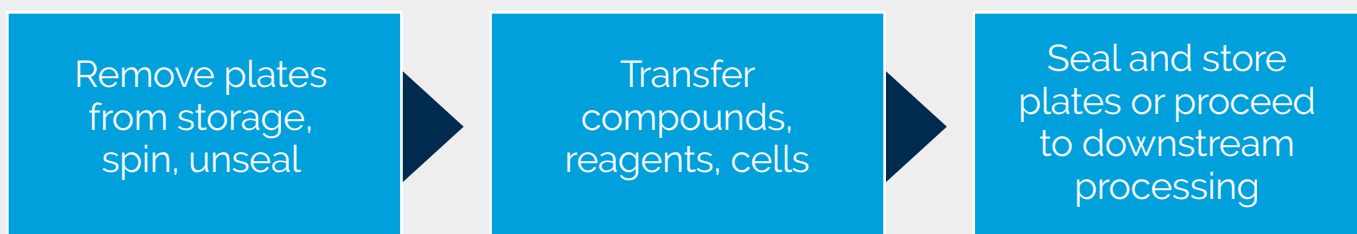
# ELEMENTS

## Sample Management



Harness precision movement and repeatable accuracy with the ELEMENTS Sample Management work cell. One fully modular and mobile FlexCart contains all the devices you need to save time when manipulating samples and compounds during discovery and assay design. This automated and hands-free system supports acoustic dispensing as a standalone solution or when docked with a larger comprehensive workflow operation.

### Automated ELEMENTS Sample Management Workflow Overview





# Key ELEMENTS Sample Management Components

## Nucleus FlexCart

(includes ACell robotic arm)

- PicoServe™ Benchtop Labware Handler
- MicroSpin™ Automated Centrifuge
- PlateOrient™ Labware Orientation Device
- Acoustic Liquid Handler
- Reagent Dispenser
- Automated Plate Peeler
- Automated Plate Sealer
- FlexCart Slides and Turntables

## CellarioScheduler Software

- Pre-scripted, sample management-specific protocols

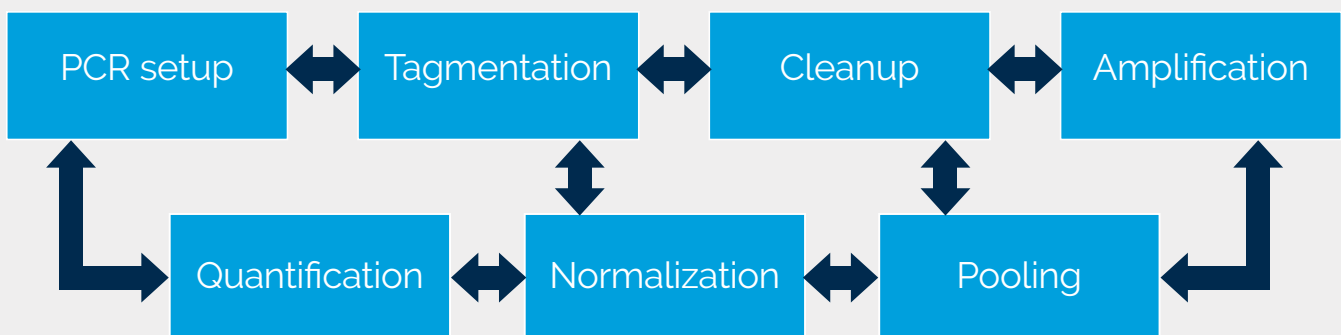


# ELEMENTS PCR



Significantly expand your research potential with ELEMENTS PCR. Depend on this dynamic and highly capable automated work cell to deliver meticulous performance in an ever-multiplying spectrum of genomics and next-generation sequencing (NGS) workflows. Modular ELEMENTS PCR includes PCR- and NGS library prep-enabling devices integrated on our Nucleus FlexCart and accessed by the mounted ACell collaborative robotic arm along with CellarioScheduler software and editable template protocols to ease workflow setup.

## Automated ELEMENTS Example PCR Workflow Overview



# Key ELEMENTS PCR Components

## Nucleus FlexCart

(includes ACell robotic arm)

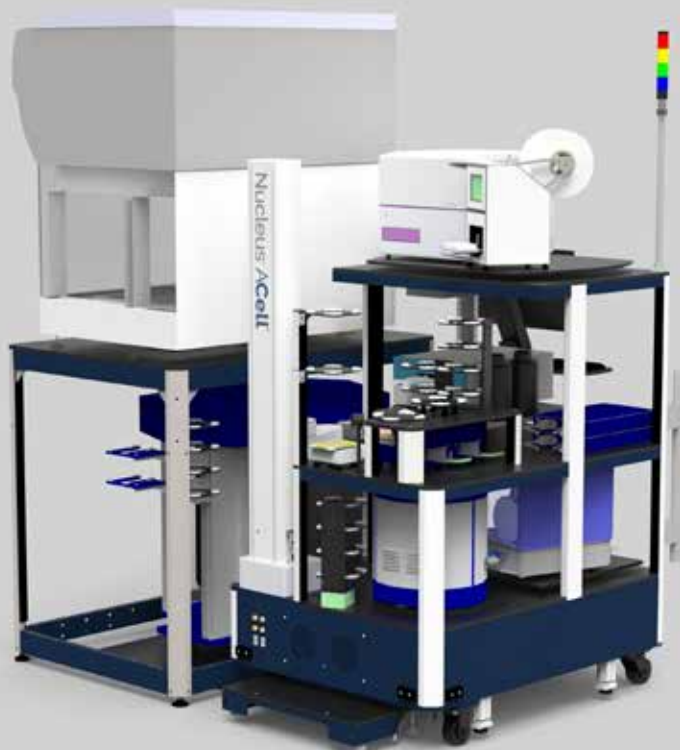
- MicroSpin Automated Centrifuge
- Automated Plate Peeler
- Automated Plate Sealer
- Up to 2x On-Deck Thermal Cyclers (ODTC)
- 4-Position HighRes Stationary Plate Hotel
- Up to 4x Nests for Centrifuge Counterbalance Plates
- Deadlock Resolver Nest
- Optional hardware devices (i.e. washer, mixer, reader, nanoliter dispenser)

## Table Mounted

- AmbiStore D Random Access Sample Storage Carousel
- Agilent Bravo, Tecan Fluent 480, or Hamilton Starlet Automated Liquid Handler

## CellarioScheduler Software

- Pre-scripted PCR and NGS library prep template protocols to get you started





**HighRes**<sup>®</sup>  
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