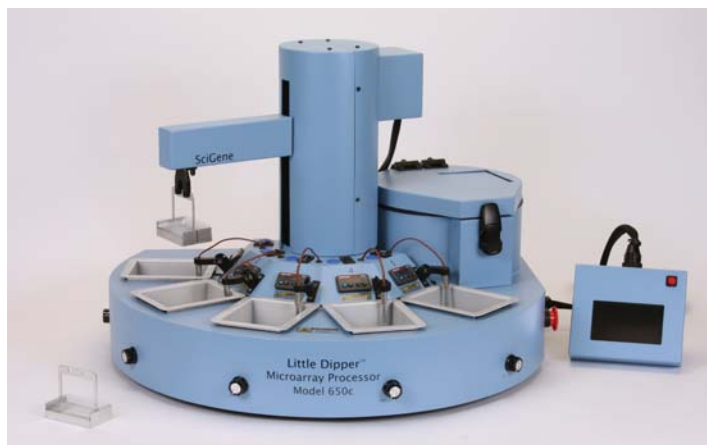


Little Dipper[®] Processor for Agilent Arrays

Automates Processing of Agilent DNA Microarrays

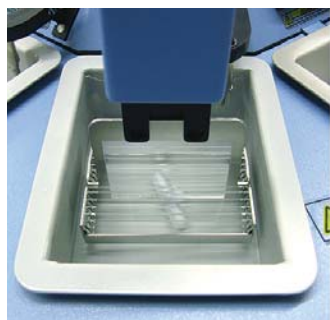


Improves Data Quality and Assay Reproducibility

The Little Dipper Processor for Agilent Arrays is a programmable robotic system that replaces the multistep manual method normally used for post-hybridization processing of CGH, gene expression, CHIP-chip and miRNA arrays.

The system washes and dries up to 12 microarrays producing uniformly clean slides with low backgrounds ready for scanning.

Racked samples are moved at programmed intervals between temperature controlled baths containing Agilent buffers where they are washed using a combination of up/down agitation and stir bar vortex action. After washing, arrays can either be coated with the Agilent stabilization solution or automatically dried using the integrated centrifuge.



Arrays are washed using up/down agitation and stir bar mixing.

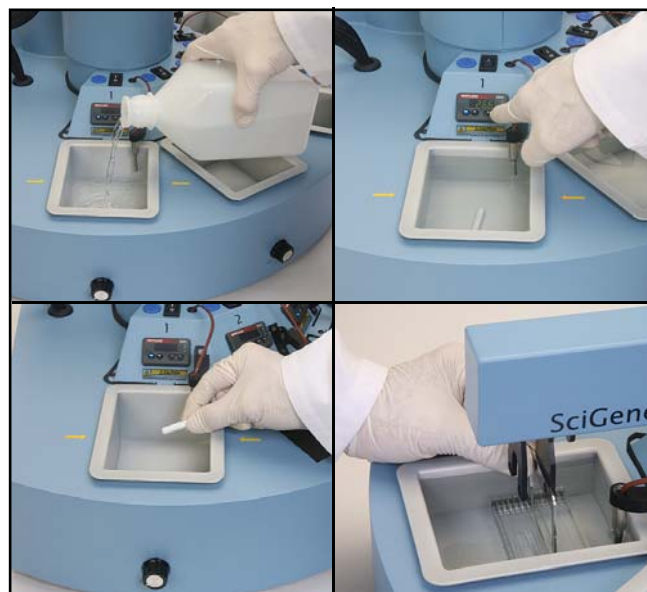


Arrays are dried automatically in the integrated centrifuge.

Easy Set Up and Operation Using Pre-Installed Protocols

After filling the baths with buffers and setting temperatures and stir bar action, arrays are placed in a rack and inserted onto the Little Dipper robotic arm. The instrument then automatically performs all of the processing steps using programs that follow Agilent recommended conditions.

For new users, a handy operator reference card is included that guides them through system operation.



Fill baths, set temperature, adjust stir bars and load slide rack.

SciGene Automates Microarray Workflows

Improves Data Quality and Assay Reliability



Automates Benchwork from Labeling to Scanner

Laboratory methods for processing samples used in microarray assays are tedious, complex and time consuming which can lead to unreliable results.

SciGene has the solution with three specialized instruments that automate the sample handling workflow used with microarrays... starting with DNA/RNA, the instruments perform all of the steps from amplification and labeling through array hybridization and post hybridization processing.

Used separately, each instrument can improve laboratory workflow. Used together, they provide a powerful platform for automating microarray assays.

ArrayPrep™ Target Preparation System

The ArrayPrep System automates sample labeling and then loads the samples onto microarrays using the Mai Tai Hybridization System. Using simple procedures, DNA/RNA and reagents are loaded and then the instrument follows recommended manufacturer's protocols optimized for processing up to 96 samples. Automation with the ArrayPrep System provides the laboratory enormous savings in labor and improves overall test reliability.

Mai Tai® Hybridization System

The Mai Tai System consists of an automation-compatible, multiple slide hybridization cassette and rotating oven. When setting up hybridizations, cassettes are placed on the ArrayPrep instrument and the labeled DNA samples automatically loaded onto gasket slides in the cassettes. After placing the arrays, the cassettes are sealed and the samples "bubble mixed" during hybridization by rotation in a CLIA-compliant oven. The ArrayPrep and Mai Tai System automates the selection and pipetting of samples onto arrays streamlining the work and reducing the potential for sample mix-ups.

Little Dipper® Processor

At the completion of hybridization using the Mai Tai System, slides are removed from the cassettes, washed and then dried using The Little Dipper Processor. Up to 24 slides can be processed at one time following optimized protocols developed for popular platforms (Agilent, Roche NimbleGen, etc). The Little Dipper Processor reduces batch-to-batch variability often seen with manual processing and produces clean arrays with consistently low backgrounds ready for scanning.

Specifications

Little Dipper® Processor for Agilent Arrays

Electrical

Cat.# 1080-40-1/2 115/230V AC; 12A/6A; 1400W

Dimensions (HxWxD)

Instrument 20x28x22 inches (51x71x56 cm)
Instrument Carton 25x28x34 inches (64x71x86 cm)
Accessories Carton 10x15x15 inches (25x38x38 cm)

Weight

Instrument Net 47 lbs (21 kg)
Shipping Gross 85 lbs (39 kg) in 2 cartons

Performance and Controls

Temperature Range Ambient +5°C to 90°C
Temperature Regulation ± 0.5°C from set point
Bath Volumes 5x 670ml
Centrifuge RPM / force 690RPM / 50g

Ordering Information

Catalog No. Description

1080-40-1/2 Little Dipper® Microarray Processor, 115/230V.
Includes a 12 month warranty.

Related Products

2000-00-1/2 ArrayPrep™ Target Preparation System, 115/230V.
1075-00-1/2 Mai Tai® Hybridization System, 115/230V.
1090-00-1/2 NoZone® Workspace, 115/230V.
1090-11-1/2 NoZone® TL Workspace, 115/230V.
1090-12-1/2 NoZone® GP Workspace, 115/230V.

SciGene (408) 733-7337 Tel
617 N. Mary Avenue (408) 733-7336 Fax
Sunnyvale, CA 94085 USA www.scigene.com

Third party marks and brands are the property of their respective owners.
©2008 SciGene Corporation rev 1108A Pub. 302 1M