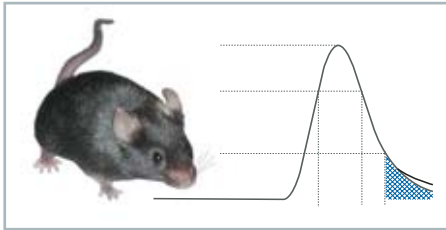


Cardiac Output System

Measurement of Cardiac Output using the Thermodilution Technique

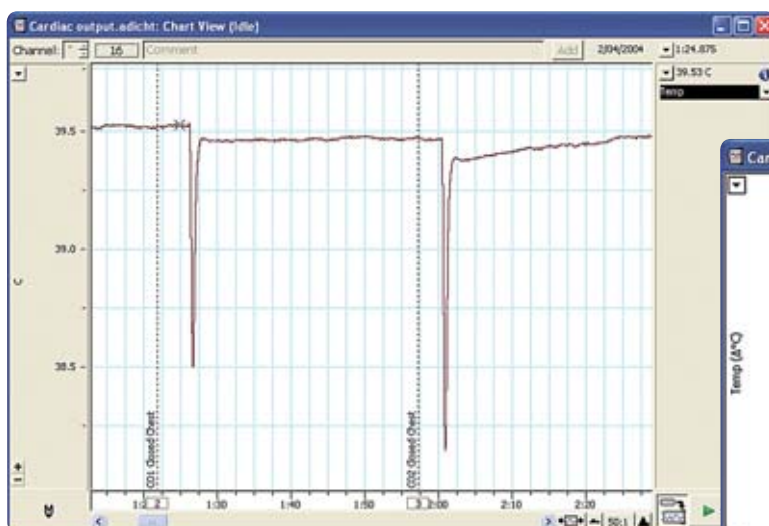


The Cardiac Output System provides researchers with a complete package for the recording and analysis of cardiac output in small animals such as mice and rats, using the thermodilution technique.

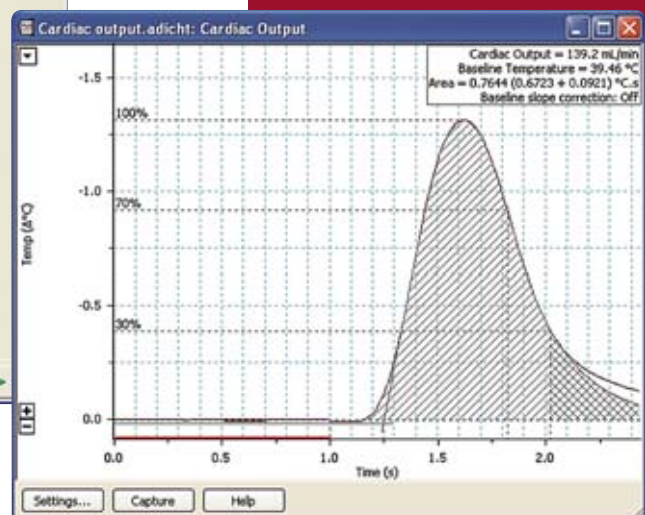
The system measures a temperature change within the arterial circulation following the injection of a cooled solution into the right side of the heart. Key components of the system include the Cardiac Output Pod and the T-type Ultra Fast Thermocouple Probe (5 ms response time).

In addition to a PowerLab® 8/30 data acquisition unit and Chart™ software, the system features the Cardiac Output Module (for Windows®) which displays and calculates cardiac output from selected thermodilution curves recorded in Chart.

The Cardiac Output Module allows researchers to configure parameters such as injectate temperature, volume, baseline slope correction and temperature tail-fitting limits. The calculated cardiac output values from each thermodilution curve are easily extracted and can be exported for further analyses.



Above: Chart recording of thermodilution curves from a small animal after injections of cold saline.



Right: The Cardiac Output window showing baseline determination, calculated exponential curve and cardiac output values.



Features & Benefits:

- Save time with a complete package which includes a data acquisition system, signal conditioners, thermocouple probes, software and more
- “Plug and play” signal conditioners for easy connection to PowerLab units
- Ultra fast response T-type thermocouple probe for accurate measurements
- Quick and easy calculation of cardiac output using a specialist software module
- Accessory kit for accurate delivery of injectate

Cardiac Output System Components

System Features

The Cardiac Output Pod and Ultra Fast Thermocouple Probe measure temperature changes in the circulation. The T-type Pod and the General Purpose T-type Thermocouple Probe are included for measurement of injectate temperature. The system also features an Accessory Kit with catheters, taps and injectate syringe with dispenser. In combination with PowerLab, Chart software and the Cardiac Output Module, measuring cardiac output in small animals is made quick and easy.



ML870B10 Cardiac Output System

- ML870 PowerLab 8/30 (8 channel data acquisition system)
- ML312 T-type Pod
- MLT1400 General Purpose Thermocouple Probe
- ML313B Cardiac Output Pod which includes:
 - MLT1402 T-type Ultra Fast Thermocouple Probe
 - MLS340 Cardiac Output Module
 - MLA313 Cardiac Output Accessory Kit including:
 - Hamilton LR Glass Syringe (250 µL)
 - PB600 Repeating Dispenser
 - Polyethylene Catheters (x6)
 - Three-way Taps (x4)
 - Touhy Borst Adaptors (x2)



MLA313



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