

AriaDx Real-Time PCR System



Have Total Confidence in Your qPCR

The Agilent AriaDx Real-Time PCR system is a fully integrated quantitative PCR amplification, detection, and data analysis solution. With innovative optical modules that can be changed in one simple step, your lab can have the flexibility necessary to scale up over time. The design of the AriaDx system combines a state-of-the-art thermal cycler, an advanced optical system with LED excitation sources, intuitive data analysis software, and touchscreen operation.

Providing results that capture real-time PCR data markup language (RDML), the software delivers the data required for publishing under the minimum information for publication of quantitative real-time PCR experiments (MIQE) guidelines. The software is equipped to export images and raw data simultaneously in multiple formats, allowing results to be viewed in common programs. With the AriaDx system, you can have complete confidence in your qPCR data from plate startup to experimental analytics.

Specifications

Feature	Description
Excitation Source	Eight dye-specific LEDs per optical module
Detection Sources	Eight photodiodes
Optical Modules	SYBR/FAM HEX ROX CY3 CY5 ATTO425 Six slots, exchangeable optical modules
Dye Selection	Excitation and emission
Reaction Volume	10 to 30 μ L
Chemistries Supported	SYBR, TaqMan chemistries
Thermal System	Six Peltier elements made from two ceramic plates with semi-conductor elements, 96-well
Thermal System Temperature Range	25.0 to 99.9 °C Heating: 6.0 °C/sec Cooling: 3.0 °C/sec (median), 2.5 °C/sec (average) Accuracy: $\pm$ 2 °C or better at typical annealing, amplification, and denaturation temperatures
Dynamic Range	Nine
Experiment Types	Quantitative PCR with dye Quantitative PCR with probe Allele discrimination with probe Comparative quantitation User defined
Uniformity	$\pm$ 0.4 °C
Data Acquisition Time	< 3 seconds for all channels
Electrical Power (input)	100 to 240 VAC, 50/60 Hz, 1100 VA
Operating Environment	20 to 30 °C 20 to 80% non-condensing humidity 7,500 ft max altitude
Weight	50 lbs. (23 kg)
Dimensions	19.7" W x 18.1" D x 16.5" H (50 cm x 46 cm x 42 cm)
Sample Containers	96-well plates, strip tubes, 0.2 mL tubes
Warranty	– One-year warranty is standard with the instrument – Five-year warranty and service packages available
Onboard Analytics	– Thermal, physical, and interactive sensor tests – Extended: 125 performance points tested in 30 minutes – Start-up: 59 performance points tested in approximately one minute – Optional bypass for both features
Services (upon request)	– Installation and initialization – Standard preventative maintenance – Extended warranty and service contracts available
Operating System	– Windows 10 Pro (64-bit) with preferred language set to English (United States)
MS Office Compatibility	– Microsoft 2010 and 2013 compatible
Run Modes	– Standalone – PC-connected – LAN connected to PC (more than 20 instruments can be connected and monitored remotely) – USB-connected, external devices
Software	– Free software including LIMS-connectivity feature – Electronic Tracking software upgrade
Optical Module Calibration and Cleaning	– All channels can be tested and calibrated – All attributes of optical channels are calibrated at the factory—LED light output, light path, and photodiode – Optical modules can be cleaned in lab, without Agilent technician or sending back to the factory
Selected Applications	– Quantitative and qualitative gene expression analysis – Genetic mapping – Genetic fingerprinting – NGS library quantification – Two to six channel multiplexing available – Pathogen quantification

Ordering Information

Category	Part Number	Description	Quantity	
Instrumentation	K8930AA	AriaDx Real-Time PCR instrument	1	
	Option 101	SYBR/FAM Optical module	1/pack	
	Option 102	ROX Optical module	1/pack	
	Option 103	HEX Optical module	1/pack	
	Option 104	CY3 Optical module	1/pack	
	Option 105	CY5 Optical module	1/pack	
	Option 106	ATTO425 Optical module	1/pack	
	Option 300	Electronic Tracking software upgrade	1	
AriaDx Software Upgrade (post instrument purchase)	K5822AA	Electronic Tracking software upgrade	1	
Optical Modules (sold without instrument)	G8830-67001	SYBR/FAM Optical module	1/pack	
	G8830-67002	ROX Optical module	1/pack	
	G8830-67003	HEX Optical module	1/pack	
	G8830-67004	CY3 Optical module	1/pack	
	G8830-67005	CY5 Optical module	1/pack	
	G8830-67006	ATTO425 Optical module	1/pack	
Plastics	401490	96-well plates, skirted and low profile	1 x 25/pack	
	401491	96-well plates, skirted and rigid	1 x 25/pack	
	401494	96-well plates, non-skirted and low profile	1 x 25/pack	
	401492	Adhesive plate seals	1 x 50/pack	
	401493	Low profile strip tubes for PCR and qPCR applications, without caps	8/strip x 120/box	
	401425	Strip caps for PCR and qPCR applications	8/strip x 120/box	
Qualification	Plate	5190-7708	SYBR Qualification plate	1 plate/pack

Useful Tools and Web Links

AriaDx Real-Time PCR system

To learn more about the Agilent AriaDx qPCR system, visit our product page:

[www.agilent.com/en/product/real-time-pcr-\(qpcr\)](http://www.agilent.com/en/product/real-time-pcr-(qpcr))

qPCR decision tree

Determine which qPCR reagents or enzymes best serve your needs by visiting our qPCR decision tree:

www.agilent.com/en/product/real-time-pcr-%28qpcr%29/bioreagent-decision-trees

Software updates

Ensure your software is the most current version by visiting our software pages:

[www.agilent.com/en/product/real-time-pcr-\(qpcr\)/real-time-pcr-\(qpcr\)-instruments/ariadx-software-download](http://www.agilent.com/en/product/real-time-pcr-(qpcr)/real-time-pcr-(qpcr)-instruments/ariadx-software-download)

Demonstration video

For a virtual demo, watch this short video:

www.agilent.com/en/video/ariamx-quick-product-demo

For more information, email:

qpcr@agilent.com

For Americas, call 800-227-9770 or for other regions, consult

www.agilent.com/en/contact-us/page

For In Vitro Diagnostic Use.
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This information is subject to change without notice.

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