

AriaDx

Real-Time PCR Instrument

For In Vitro Diagnostic Use



Total Confidence qPCR

Agilent Technologies provides a modular and precise real time PCR instrument in the AriaDx that is capable of evolving with your future clinical needs. AriaDx offers intuitive software and superior instrument quality empowering you with fast, reproducible and accurate results. The state of the art thermal cycler, the modular LED optical cartridges and the on-board instrument self-diagnostic capability keeps the lifetime costs low and makes the AriaDx a need in clinical laboratories.



Confidence in Success Fast Instrument for Fast Chemistries

AriaDx with its next generation optics design, precision thermal block and easy user interface enables quick turnaround time from assay set up to results—enabling quicker time to results.

- Blazing Fast Scan Times: < 3 sec. for all 6 channels
- Ready to Go: Factory Calibrated
- Fast Assay Set Up: Intuitive touch screen interface



Confidence in a System that Meets Your Needs Today and Tomorrow

The agile design of the AriaDx Real-Time PCR System offers the industry's first configurable and customer-changeable optics. Now you can mix-and-match optics to suit your needs today, and easily change them to suit your needs for tomorrow.

- Modular Optical Cartridges: 1-6 filter capability
- Low Maintenance and Lower Life Time Costs
- On Board Self-diagnostics to keep your instrument running better



Confidence in Easy-to-Use, Precise Software Superior Data & Data Analysis

The AriaDx Software combines robust data analysis algorithms and intuitive organization for precision and ultimate ease-of-use.

- Free Software package
- 21 CFR part 11 compliant software
- Tight & Accurate Thermal Control





AriaDx

BETTER SYSTEMS. BRILLIANT RESULTS.

Confidence in a system that meets your needs today and tomorrow.



The AriaDx Real-Time PCR System is a fully integrated qPCR amplification, detection, and data analysis system. The system's modular design combines a state-of-the-art thermal cycler, an advanced optical system with spectra-optimized LED cartridges, and data analysis software.

The instrument leverages a comprehensive software suite of on-board instrument diagnostics, giving you confidence that instrument failpoints are identified prior to running your assay. Experience total confidence with AriaDx's blend of speed, agility, and precision.

SPEED

Ready, Go!

Factory Calibrated

AriaDx is ready to go—no need to set quantification curves or calibrate the instrument.

Ultra-Fast Chemistry

AriaDx is compatible with all fast reaction chemistries.

Blazing Scan Times

Scan all channels in less than three seconds—the fastest in the industry.

AGILITY

Today and Tomorrow

Modular Design

Modular cartridges make in-lab upgrades possible with the click of a button.

Intuitive Interface

AriaDx's touchscreen makes system integration easy for all users.

Broad Applications

AriaDx supports more than one assay and chemistry.
Applications include:
Comparative Quantification
(Single-Plex and Multiplex),
Quantitative PCR (Single-Plex and Multiplex), Genotyping, Allele Discrimination, Gene Expression and more.

PRECISION

Superior Data

Thermal Control

Easily maintains within ± 0.2°C or less of target temperature.

Impressive Sensitivity

Two-fold discrimination in a single cycle with 95% confidence over a wide range of copies.



READY, GO! Agilent Technologies provides a total solution approach to real-time quantitative PCR.

AriaDx instrumentation makes routine and complicated applications faster and easier without sacrificing data integrity. Applications where AriaDx excels:

- Multiplex

More agility and speed in your assays with reagents optimized for your reactions

Open Platform

Compatible with multiple reagent chemistries

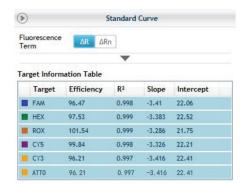
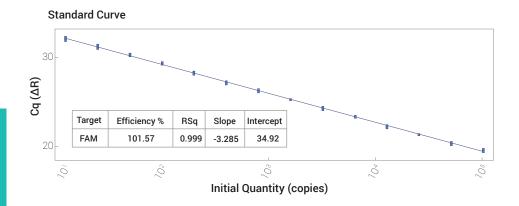


Figure 1. Six Color Standard Curve Data by Fluor.

- Tight manufacturing quality controls
- Open reagent platform: use your assays and reagents



AriaDx is sensitive enough to detect 2 copies to 1x109 copies.

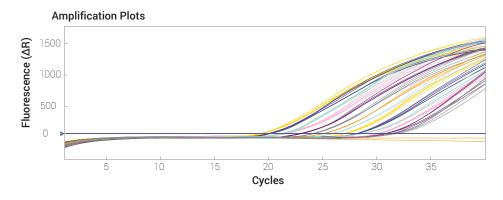


Figure 2. Amplification and Standard Curve Plots Showing Sensitivity Measuring a Two-Fold Change.



MODULAR OPTICAL CARTRIDGES. The first real-time PCR system with optics contained in modular cartridges, the AriaDx allows for less cross talk between channels — resulting in improved data resolution.

AriaDx comes calibrated straight from the factory. Now you can be confident you are measuring biological variation over the instrument's life.

- LIMS connectivity
- Expandable and upgradeable in the lab
- No reference channel needed
- "Set it and forget it" calibration
- Accommodate as many or as few optic channels as you required

With optical cartridges that have no need for a reference channel, the tight calibration of the cartridges and steady emission wavelengths from the instrumentation provide consistent data with every run.





Software with LIMS connectivity. To effectively and effortlessly manage import and export of experimental data.

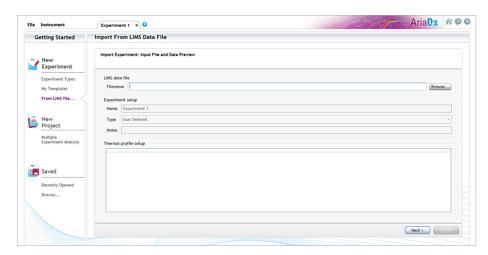


Figure 3. Set up experiments quickly and efficiently using LIMS import feature.

OPRECISION

SUPERIOR DATA. Easy-to-use SOFTWARE with proprietary algorithms accompany AriaDx's precision chemistry and thermocycling capability.

Easy Touchscreen Set-Up

Simple-to-use, feature-rich touchscreen allows you to set up runs with the touch of a finger. 21 CFR Part 11 compliant features are available by licensing electronic tracking software.

Plate Maps at Your Fingertips

Program at the plate and well level. Simply hover over a well, and its details will open in a new window.

- LIMS connectivity at no additional charge
- Secure data management and audit trail as required by 21 CFR Part 11

New Software Features

- Touchscreen Set-Up
- Onboard Diagnostics
- Remote Monitoring
- Base software included with instrument purchase
- LIMS connectivity at no additional charge.
- Secure data management and audit trail as required by 21 CFR Part 11



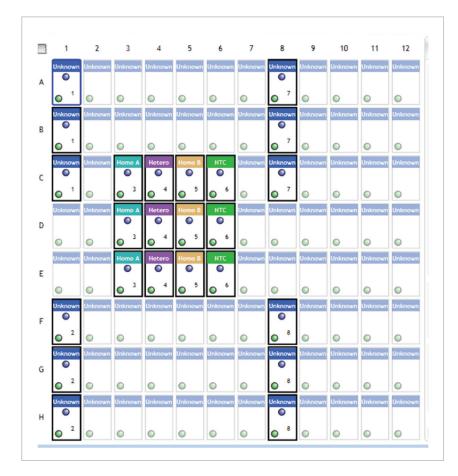


Figure 4. Easy-to-access, Plate and Well Maps.

Pre-Programmed Assays

Pre-programmed assays allow for easy selection of calibrators, normalizers and sample associations.

- Quantitative PCR
- Allele Discrimination
- Comparative Quantification

In high throughput gene expression studies, standard curves are not used. Relative quantity calculation is automated using the Comparative Quantitation module in the AriaDx Software. See Figure 5 for details.

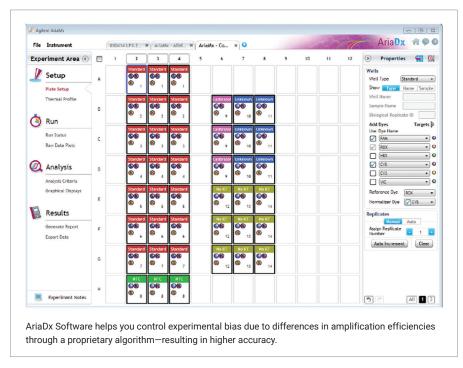


Figure 5. Set-up Screen for Comparative Quantitation.

Note: 21 CFR Part 11 compliant software is available at an additional cost. HRM analysis feature is not available for AriaDx.

Easy Reporting

Easily export raw data in multiple formats with the touch of a finger. Select only those datasets you want displayed using custom data reports:

- Plate Set-Up
- Experimental Thermal Profile
- Raw Data Plots
- Analysis Criteria
- Amplification Plots
- Allele Determination
- Graphical Displays
- Tabular Results
- Experimental Notes

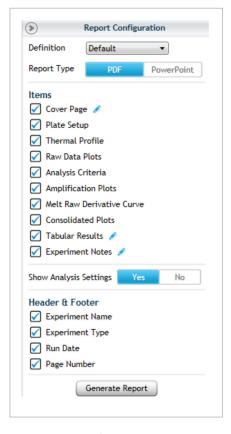


Figure 4. Report Configuration



Give your data the attention it deserves. Regain time lost on peripheral tasks and focus on the critical processes that keep your lab successful.

More Reliable Results and Achievements

Agilent CrossLab Diagnostic Service Agreements ensure productivity and availability for critical systems, they provide fast response times and priority handling for technical support and repairs. An Instrument Service Agreement can cover single or multiple instruments. They also are an ideal way to avoid unplanned expenses.

Confidence, Not Compromise

Agilent's service group stands behind every instrument, giving you confidence in equipment functionality and data. Agilent has one global focal point: providing our customers with the best service available worldwide. It's no wonder that over 70% of our service employees stay with Agilent for over five years. Equipped with calibrated and traceable tools, our service technicians verify your equipment is running at maximum performance. Specialized remote monitoring (free to activate as needed) allows Agilent's service group to troubleshoot your instrument directly from the lab, providing confidence at every turn.

Breadth of Services

Agilent's professional services team has been called upon for our support with customized training, systems and enterprise integration, workflow design, special engineering projects, protocol development, and project management. We have conducted over 100,000 successful system qualifications worldwide, and our genomics professionals operate in 65 countries.

- Fast delivery for critical parts
- Dedicated instrument support for fast issue resolution

Cost effective On-time delivery

Rapid Assistance

Whatever the challenge, Agilent's broad resources address your needs. Expect reduced repair time with:

- Call Center: Rapid assistance with instrumentation, from our highly experienced genomics technical support professionals. That's why our technical support professionals are PhD scientists with extensive genomics experience.
- Remote Monitoring: Instrument health monitored remotely for greater troubleshooting flexibility.

Warranty and Multi-Year Upfront Coverage

Each AriaDx includes the standard warranty for the country of purchase. If moved to another country, the destination country's standard warranty will apply to the instrument.*

Services available for purchase with AriaDx include:

- Installation and Familiarization (I&F): Have an Agilent Field Service engineer or member of our team install and familiarize you with the AriaDx.
- Extended Warranty Diagnostic (Onsite repair): Have an Agilent team member diagnose and repair to keep your AriaDx running at peak performance.
- Agilent CrossLab Preventive Maintenance Diagnostic: This factory-recommended service ensures
 reliable operation and accuracy for a range of diagnostic systems. Our certified service engineers utilize
 quality Agilent parts and supplies, and follow certified procedures for the highest levels of maintenance.
- Agilent CrossLab Silver Diagnostic: Our most comprehensive service plan covers both repair and
 maintenance of your system to meet all of your diagnostic laboratory needs. It includes preferred
 response over time-and-materials calls. All onsite repair visits and repair parts to restore your system to
 operating condition in addition to an annual Preventative Maintenance service. A cost-effective offering
 to help maximize your instrument's availability keep your system running at peak performance.

^{*} Except for on-site warranty where Agilent does not have an applicable product-specific support presence or authorized representative in that country.

Specifications Table

Feature	Description		
Excitation Source	8 dye specific LEDs per optical module		
Detection Sources	8 photodiodes		
Optical Cartridges	SYBR/FAM		
	HEX		
	ROX		
	CY3 CY5		
	ATTO425		
	6 slots, swappable optical modules		
Dye Selection	Excitation and Emission		
Reaction Volume	10 µl to 30 µl		
Chemistries Supported	SYBR and TaqMan chemistries		
Thermal System	Six Peltiers made from two ceramic plates with semi-conductor elements, 96-well		
Thermal System	25.0 - 99.9°C		
Temperature Range	Heating: 6.0°C/sec		
	Cooling: 3.0°C/sec (Median), 2.5°C/sec (Average)		
	Accuracy: ± 0.2°C or better at typical annealing, amplification, and denaturation temperatures		
Dynamic Range	9		
Experiment Types	Quantitative PCR with dye, Quantitative PCR with probe, A	llele Discrimination with probe, Comparative Quantitation, User Defined	
Uniformity	± 0.4°C		
Data Acquisition Time	<3 seconds for all		
Electrical Power (input)	100 – 240VAC, 50/60Hz, 1100VA		
Operating Environment	20 – 30°C, 20 – 80% non-condensing humidity, 7500 feet, max altitude		
Weight	50 lbs. (23 kg)		
Dimensions	19.7" W x 18.1" D x 16.5" H (50cm x 46cm x 42cm)		
Sample Containers	96-well plates, strip tubes; 0.2mL tubes		
Warranty	• 1 year warranty is standard with the instrument		
Onboard Analytics	5 year warranty and service packages available		
Onboard Analytics	Thermal, physical, interactive (sensors) tests Extended: 125 performance points tested in 30 minutes		
	• Start-up: 59 performance points tested in ~1 minute		
	Optional bypass of both features		
Services (upon request)	Installation & Familiarization		
	Standard preventative maintenance		
	Extended warranty and service contracts available Onsite repair where available		
	Onsite repair where available		
Operating System	• Windows 10 - with preferred language set to English (Uni	ted States)	
Run Modes	Stand alone		
	• 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 21 CFR part 11 complaint software		
Optical Module Calibration	All channels can be tested and calibrated		
and Cleaning	 All attributes of optical channels are calibrated at the factory – LED light output, light path, mirror, and photodiode Optical modules can be cleaned in lab without Agilent technician or sending back to factory 		
Selected Applications	Quantitative and qualitative gene expression analysis	NGS library quantification	
	• miRNA analysis	• 2-6 channel multiplex ability	
	• Genetic mapping	Pathogen quantification	
	Genetic fingerprinting		

USEFUL WEB LINK

Software Updates Ensure your software is the most current version by visiting

www.agilent.com/genomics/ariadxsoftware

TECHNICAL SUPPORT

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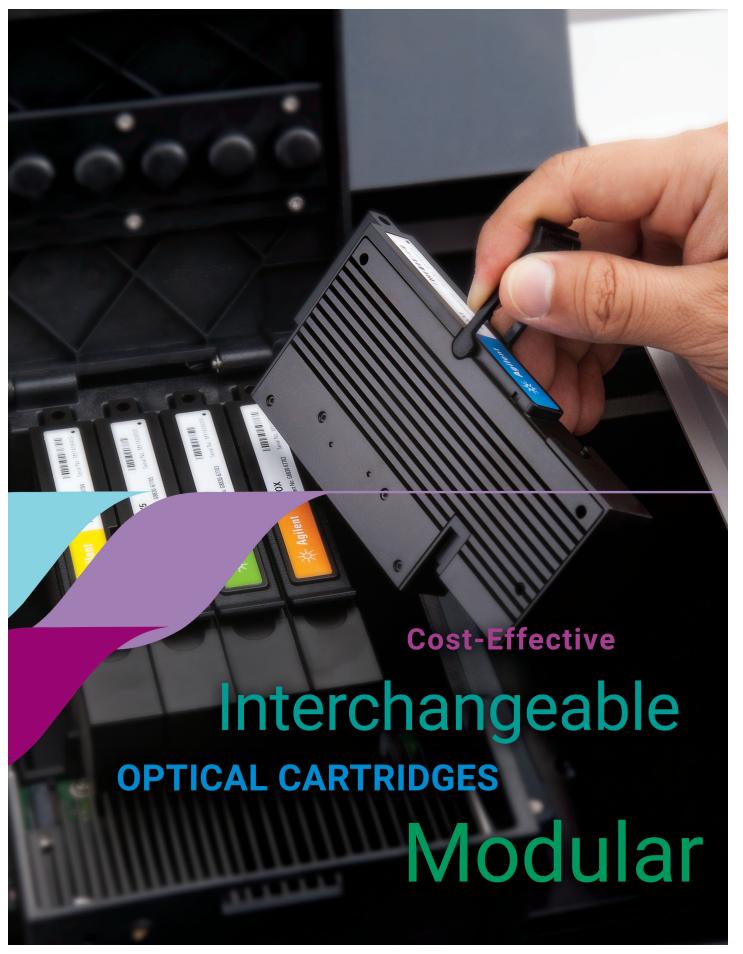
Other regions, consult:

www.agilent.com/genomics/contactus

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Ordering Information

Category	Part #	Description	Quantity
Instrumentation	K8930AA	AriaDx Real-Time PCR instrument	1
	Option 101	SYBR/FAM Optical Cartridge	1/pack
	Option 102	ROX Optical Cartridge	1/pack
	Option 103	HEX Optical Cartridge	1/pack
	Option 104	CY3 Optical Cartridge	1/pack
	Option 105	CY5 Optical Cartridge	1/pack
	Option 106	ATTO425 Optical Cartridge	1/pack
	Option 300	Electronic Tracking	1
	Option 650	PC Kit	1
AriaDx Software Upgrade (post instrument purchase)	K5822AA	Electronic Tracking Software	1
Optical Cartridges (sold without instrument)	G8830-67001	SYBR/FAM Optical Cartridge	1/pack
	G8830-67002	ROX Optical Cartridge	1/pack
	G8830-67003	HEX Optical Cartridge	1/pack
	G8830-67004	CY3 Optical Cartridge	1/pack
	G8830-67005	CY5 Optical Cartridge	1/pack
	G8830-67006	ATTO425 Optical Cartridge	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 low profile	1 x 25/pack
	401492	Adhesive plate seals	1 x 50 plates
	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

Learn more:

www.agilent.com/genomics

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