The evolution of PCR

COBAS TaqMan 48 Analyzer Specifications

Instrument specifications

Technology
The COBAS TaqMan 48 Analyzer is a fully automated amplification and detection system for nucleic acids using 5' nuclease technology.

Software
AMPLILINK Software is a Windows-based, LIS-compatible user interface that manages up to 3 COBAS TaqMan 48 Analyzers.

Host interfaces
RS 232 or LAN connectors using ASTM protocol interface to the laboratory host computer.

Printer interfaces
LPT interface via parallel port or LAN for remote printing.

Data Station
Custom-built PC supplied with the COBAS TaqMan 48 Analyzer. The Data Station runs Microsoft Windows XP professional operating system and AMPLILINK Software to control the COBAS TaqMan 48 Analyzer.

Physical dimensions
Width: 450 mm
Depth: 750 mm
Height: 500 mm

Weight
55 kg

Certifications
CE, UL, IEC, TÜV

Electrical power requirements
Line voltage: 110-240 VAC
Frequency: 50 or 60 Hz
Power consumption: 750 VA Analyzer
200 VA Data Station

Set-up specifications

Thermal cycler segments
2 segments X 24 tests

Loading capacity
Up to 2 different tests on board simultaneously. Each thermal cycler can run individual PCR profiles.

Samples
PCR-ready set-up samples

Sample volumes
70 µL to 100 µL

Utility-channel definitions
Up to 10 different PCR profiles (methods) can be stored and protected from unintentional modifications.

Temperature control range
40ºC to 98ºC

Temperature accuracy
± 1ºC over the range of 40ºC to 98ºC

Number of color detections
Up to 4 different wavelength combinations are supported (filterwheel).

Filter specifications

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Roche announces the birth of a real-time, high-performance platform that finally makes PCR testing practical for everyday lab use.

Roche Molecular Systems, Inc.
4300 Hacienda Drive
Pleasanton, CA 94588 USA
1-800-846-4692
www.roche-diagnostics.com

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Order No. TAQ-0603-001
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At the forefront of PCR evolution

Since Roche acquired the rights to PCR in 1991, its mission has been to fully realize the potential of this amazing molecular diagnostic technology. As a result, Roche has reached many milestones in the pursuit of advancing the science of PCR—such as introducing the first PCR standard tests for use in clinical diagnosis and the first standardized PCR test capable of detecting hepatitis C and hepatitis B infections.

And now with the introduction of the COBAS TaqMan 48 Analyzer, Roche is once again helping you Amplify your PCR potential with these unique benefits:

**Fast**

Real-time PCR allows rapid detection of RNA/DNA

- Uses a fluorescently labeled oligonucleotide probe to detect specific nucleic acid amplification products as they accumulate in real time
- Reduces the need for post-PCR processing
- Can screen for genetic material within hours using a minimal sample amount

**Simple**

Closed analyzer requires no user interaction after sample loading is completed

- Reduces risk of sample contamination
- Shortens time to reporting
- Simplifies lab set-up
- Increased optimization of laboratory workflow

**Flexible**

Utility channel provides you superior application flexibility

- Consolidate IVD and user-defined testing on a single platform
- Develop your own user-defined applications
- Use the same workflow to order and run user-defined and IVD applications
- Use the utility channel data analysis software for analysis of user-defined tests

Introducing the COBAS TaqMan 48 Analyzer

Yours

This compact analyzer integrates easily into your lab and also offers...

- Superior Assay Performance:
  - High sensitivity
  - High specificity
  - Broad dynamic range

- AMPILINK Software—A Data Management System
  - Complete patient/history/sample tracking
  - Ready for integration into lab's network servers
  - Enhanced graphic displays
  - Incorporates patient demographics
  - Automated order entry, reagent, and result tracking
  - Customizable user levels
  - Password-protected access

Today. And Tomorrow.

Ready for use now with manual sample preparation; designed for future integration with automated sample preparation instruments.
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