

Molecular Diagnostics

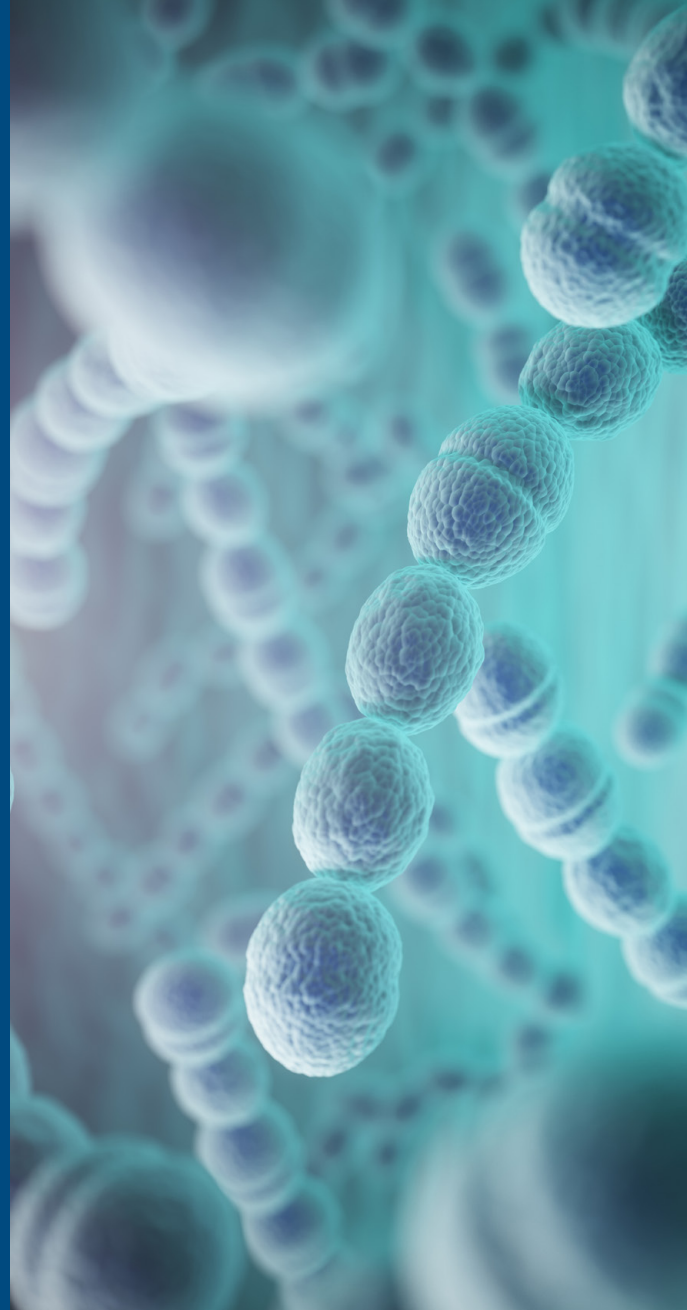
FluoroCycler[®] XT

Benchmark in PCR Cycler Technology

Innovation with Integrity

IVD

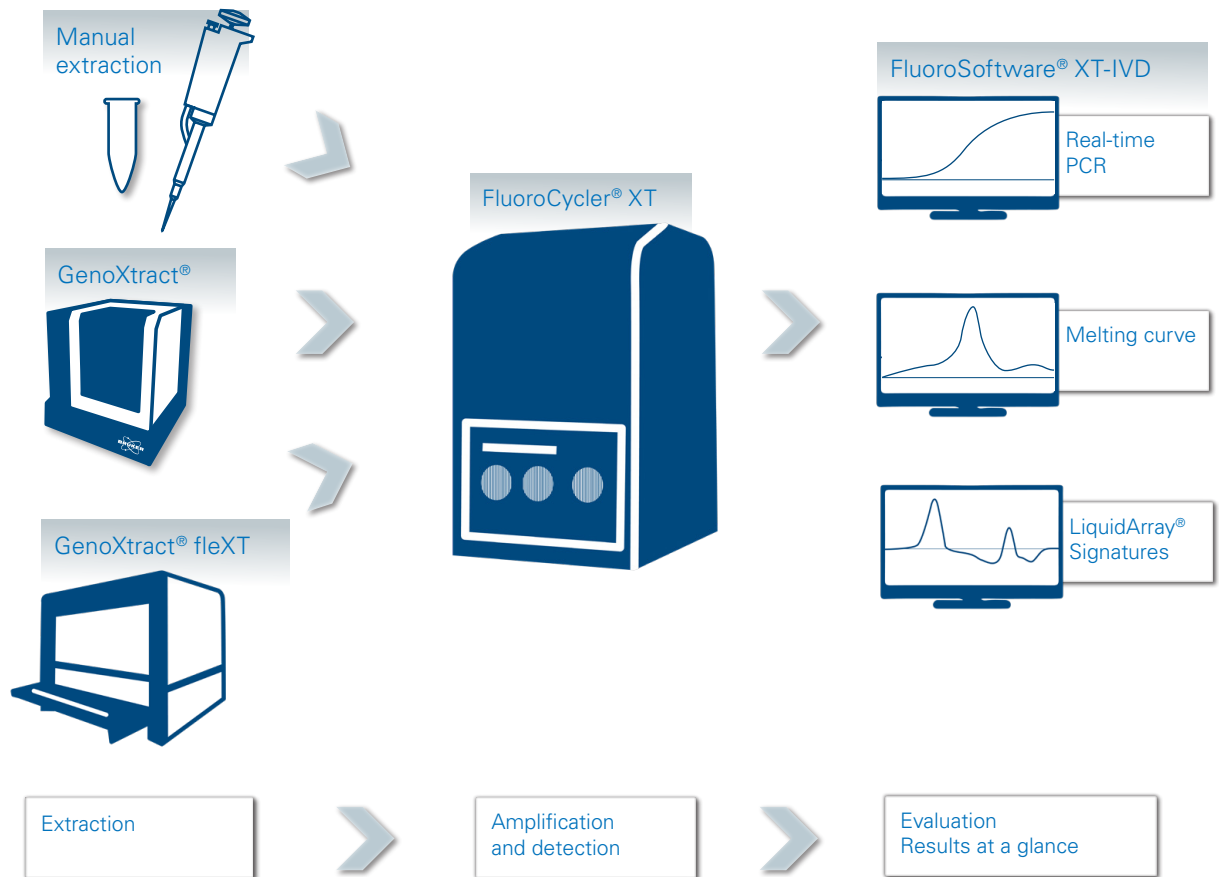
**The key to its unique,
superior performance
is the high-quality
engineering and
precision components
that make it truly
exceptional.**



The FluoroCycler® XT with its ideal combination of optics, temperature control and sophisticated software ensures high quality results you can trust.

Paving the way to bring more and more advanced assays, supporting multiplex and high throughput demands, to deliver the best in class, certified solutions for laboratory professionals in diagnostic laboratories across the world.

Workflow



The FluoroCycler[®] XT workflow accepts a 96-well PCR plate from a variety of extraction techniques, including manual extraction, the GenoXtract[®], and the GenoXtract[®] fleXT. Using the sophisticated and easy-to-use FluoroSoftware[®] XT-IVD, an automatic report is generated providing consistent results at a glance from real-time PCR, melt-curve and LiquidArray[®] signature analysis.

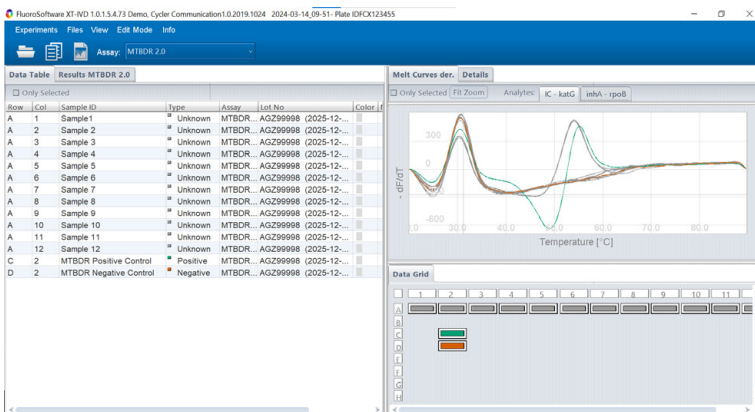
FluoroCycler XT

What makes it so special?

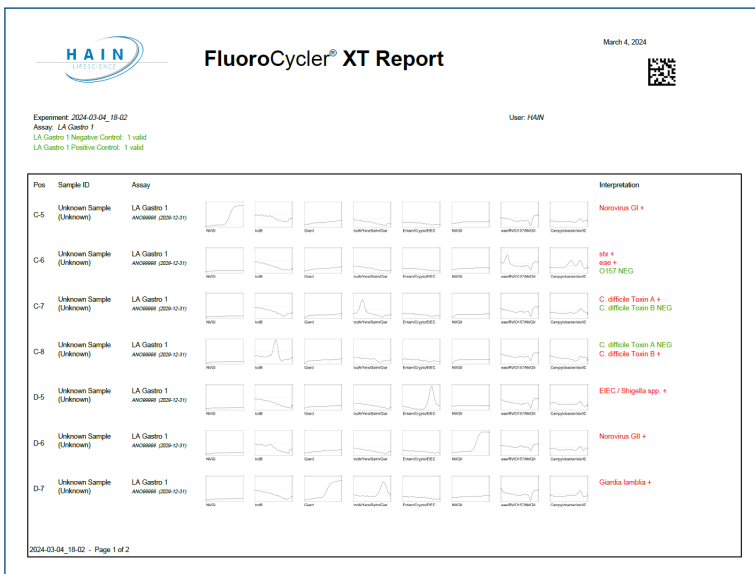
Consistent results with minimal training

Integrated FluoroSoftware XT-IVD, is a powerful software. The wizard-based interface guides users, minimizing chances of error and generating instantaneous results at a glance.

- Minimal training needed to operate easy-to-grasp software
- Results at a glance in standardized, easily understandable reports
- LIMS support for smooth workflow integration



Detailed data available for in-depth analysis



Time-saving state-of-the-art analysis producing top quality results at a glance

Assay-specific Analyzers (with key Analyzers based on machine-learning algorithms) scrutinize fluorescence signature variations that are imperceptible to the human eye – providing results that were previously undetected.

Easy integration to YOUR workflow

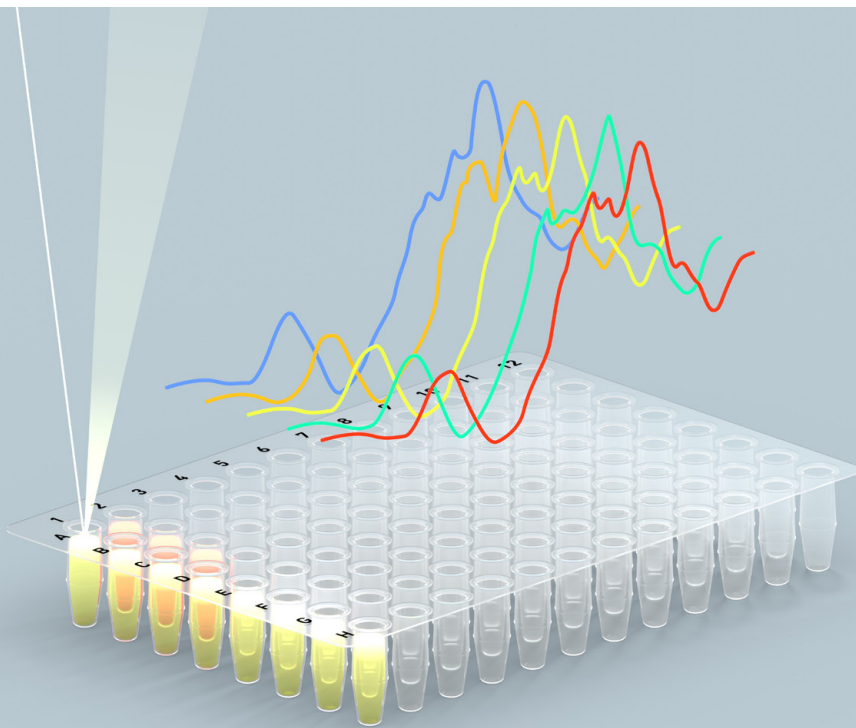
LIMS support ensures full and flexible integration in the existing laboratory environment.

Results at a glance: Fully automated analysis with FluoroCycler® XT enables consistent reporting with minimal user interpretation.

Results you can trust

The FluoroCycler XT utilizes high-quality optics, with outstanding optical alignment and specialized filters. This ensures highest precision and specificity, with detection in all 5 channels per well. The resulting minimal cross-talk completely eliminates the need for additional color compensation kits.

- Accurate results without extra colour compensation kits
- Detect unique signatures per channel and per well across the entire temperature range



Optical alignment guarantees highest precision and specificity supporting generation of LiquidArray signatures

Exceptional well-to-well thermal precision across all 96 wells. Precision: $\pm 0.2^{\circ}\text{C}$

More insights from a single test

To generate high-quality results, there is a need for high-precision temperature control. The FluoroCycler XT can reach its target temperature fast and in a very controlled and stable fashion across all 96 wells. This ensures superb results today, and paves the way for future (multiplex) assays, designed with a significantly higher number of targets per optical channel.

- Measurements you can rely on
- To date: detect up to 45 mutations from a single PCR reaction
- Sequencing-like-results due to accurate detection of temperature-dependent signatures

Comprehensive diagnostic solutions

The FluoroCycler XT supports a broad range of dedicated, IVD-validated assays.

Supporting real-time, melting curve analysis as well as highly multiplexed LiquidArray signatures.

- Bruker validated workflow
- Single source for your diagnostic needs
- Growing portfolio tailored to meet evolving customer needs

Mycobacteria

FluoroType® MTBDR VER 2.0
FluoroType® Mycobacteria VER 1.0
LiquidArray® MTB-XDR VER 1.0

HIV & Hepatitis

GENERIC HIV CHARGE VIRALE
GENERIC HIV-1 VIRAL LOAD VER 2.0 - coming soon
GENERIC HBV VIRAL LOAD VER 2.0

Gastrointestinal

LiquidArray® Gastrointestinal

Respiratory Diseases

FluoroType® SARS-CoV-2/Flu/RSV

Sexually Transmitted Infections

FluoroType® STI
FluoroType® CT
FluoroType® HSV

Fungal Infections

Fungiplex® Aspergillus IVD Real-Time PCR Kit
Fungiplex® Aspergillus Azole-R IVD Real-Time PCR Kit
Fungiplex® Candida IVD Real-Time PCR Kit
Fungiplex® Pneumocystis IVD Real-Time PCR Kit
Fungiplex® Mucorales RUO Real-Time PCR Kit*
Fungiplex® Candida Auris RUO Real-Time PCR Kit*
Fungiplex® Universal RUO Real-Time PCR Kit*

*For Research Use Only. They are not for use in clinical diagnostic procedures.

Antimicrobial Resistance

FluoroType® MRSA-VER 3.0

Human Genetics

FluoroType® Factor V
FluoroType® Factor II
FluoroType® MTHFR C677T
FluoroType® HH C282Y
FluoroType® HH H63D
FluoroType® LCT
FluoroType® HLA-B27


Technical Specifications




- Number of samples: up to 96
- Reaction volume: 10–100µl
- Temperature range: 10–100°C
- Thermal Block
 - Accuracy: $\pm 0.5^{\circ}\text{C}$ at 60°C
 - Homogeneity (in liquid): $\pm 0.5^{\circ}\text{C}$ after 5s
 - Precision (in liquid): $\pm 0.2^{\circ}\text{C}$
 - Ramp rate: Heating: up to 2°C/s ,
Cooling: up to 1.7°C/s
- Optics
 - Resolution: 0.2nm (2s Exposure Time)
 - 5 excitation channels (455–694 nm)
 - 5 emission channels (510–780 nm)
 - Detection in all 5 channels in less than 8s
 - Signal normalization by real-time reference diode
 - Requires no colour compensation kit
- Dimensions: 430 × 570 × 730 mm (W × D × H)
- Weight: approx. 65kg
- Software: FluoroSoftware® XT-IVD
- Order number: H-2017

Please contact your local representative for availability in your country. Not for sale in the USA.

FluoroType®, FluoroCycler®, GenoXtract®, FluoroSoftware®, LiquidArray®, Fungiplex®, ThromboType®, and GenoLyse® are registered trademarks for the Bruker corporate group.

LiquidArray® Gastrointestinal, LiquidArray® MTB-XDR VER 1.0, FluoroType® MTBDR VER 2.0, FluoroType® STI VER 1.0, FluoroType® HLA-B27 VER 1.0, FluoroType® CT VER 1.0 and GENERIC HBV VIRAL LOAD VER 2.0 are 

GENERIC HIV CHARGE VIRALE is 

Fungiplex® Candida Auris RUO Real-Time PCR Kit, Fungiplex® Mucorales RUO Real-Time PCR Kit and Fungiplex® Universal RUO Real-Time PCR Kit are  For Research Use Only. They are not for use in clinical diagnostic procedures.

If not mentioned above all other IVD products are 

FluoroType®, FluoroCycler®, GenoXtract®, FluoroSoftware®, LiquidArray®, ThromboType®, GenoLyse® and GENERIC HBV VIRAL LOAD VER 2.0:

 **Hain Lifescience GmbH - A Bruker Company**
Nehren · Germany
Phone +49 (0) 7473-9451-0

info.mdx.de@bruker.com
hain-lifescience.de


Fungiplex®:

 **Bruker Daltonics GmbH & Co. KG**

Bremen · Germany
Phone +49 (0) 421-2205-0

info.md@bruker.com
www.bruker.com

GENERIC HIV CHARGE VIRALE:

 **Biocentric SAS**
Bandol · France
Phone +33 (0) 494-290-630

info.mdx.fr@bruker.com
biocentric.com

GenoXtract® fleXT:

 **Hamilton Bonaduz AG**

Bonaduz · Switzerland
hamiltoncompany.com

Online information
bruker.com/microbiology

