

SMART AND FLEXIBLE PCR AUTOMATION

AltoStar[®] Molecular Diagnostic Workflow

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MAXIMUM PRODUCTIVITY. UNCOMPROMISING QUALITY.

Molecular best practices

Our fully integrated PCR automation solution streamlines your entire workflow – from nucleic acid purification to real-time PCR analysis – using harmonized reagents, instruments, and software.

The barcoded, ready-to-use reagents and the universal sample preparation chemistry for DNA and RNA purification across a comprehensive range of sample types provide complete traceability and cost efficiency.

Innovative software solution

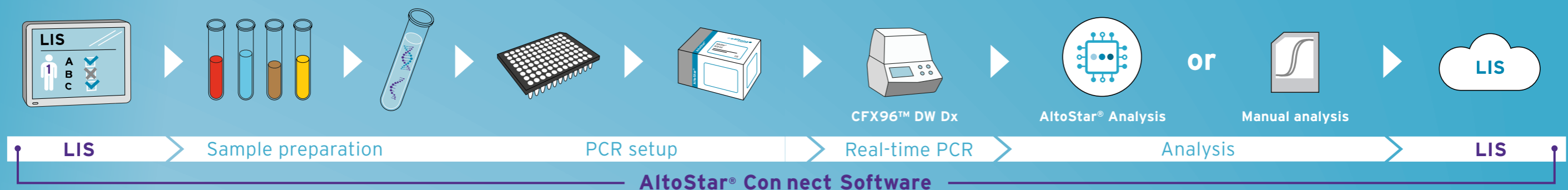
The innovative and intuitive AltoStar[®] Connect Software 2.0 enables high-throughput efficiency without compromising flexibility. Thanks to the bidirectional LIS connection, it can be adapted individually to your workflows, while the new AltoStar[®] Analysis software guarantees reliable results.

Most flexible workflow

Your lab benefits from a vast variety of options: Link all your AltoStar[®] AM16 instruments and transfer the data to an unlimited number of CFX96[™] DW Dx instruments. Choose your tests from a broad assay menu and various sample types. Assign multiple assays per sample. Easily program and implement your LDTs.



WORKFLOW





COMPLETE AUTOMATION FOR RELIABLE DIAGNOSTICS

The **AltoStar® Molecular Diagnostic Workflow** turns complex molecular laboratory processes into a seamless, fully automated experience. Driven by the intuitive **new AltoStar® Connect 2.0 Software**, it effortlessly imports work orders from the LIS, schedules and manages sample extraction and PCR plate setup, and programs the cycler, delivering streamlined efficiency and reliable results.

When paired with the **AltoStar® Analysis** software, laboratories can take automation even further, with instant, standardized interpretation of PCR results.

Together with altona's comprehensive portfolio of PCR panels, the workflow delivers a complete, connected solution for fast, accurate, and efficient molecular diagnostics.

ALL ASSAYS ON ONE PLATFORM

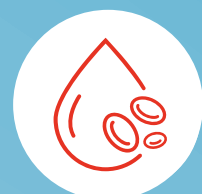
- Broad range of pathogen detection panels
- Adaptive multiplex and viral load testing on the same platform
- From outbreak preparedness to monitoring of transplant patients
- Support of LDTs and third-party assays



Transplant &
immunocompromised

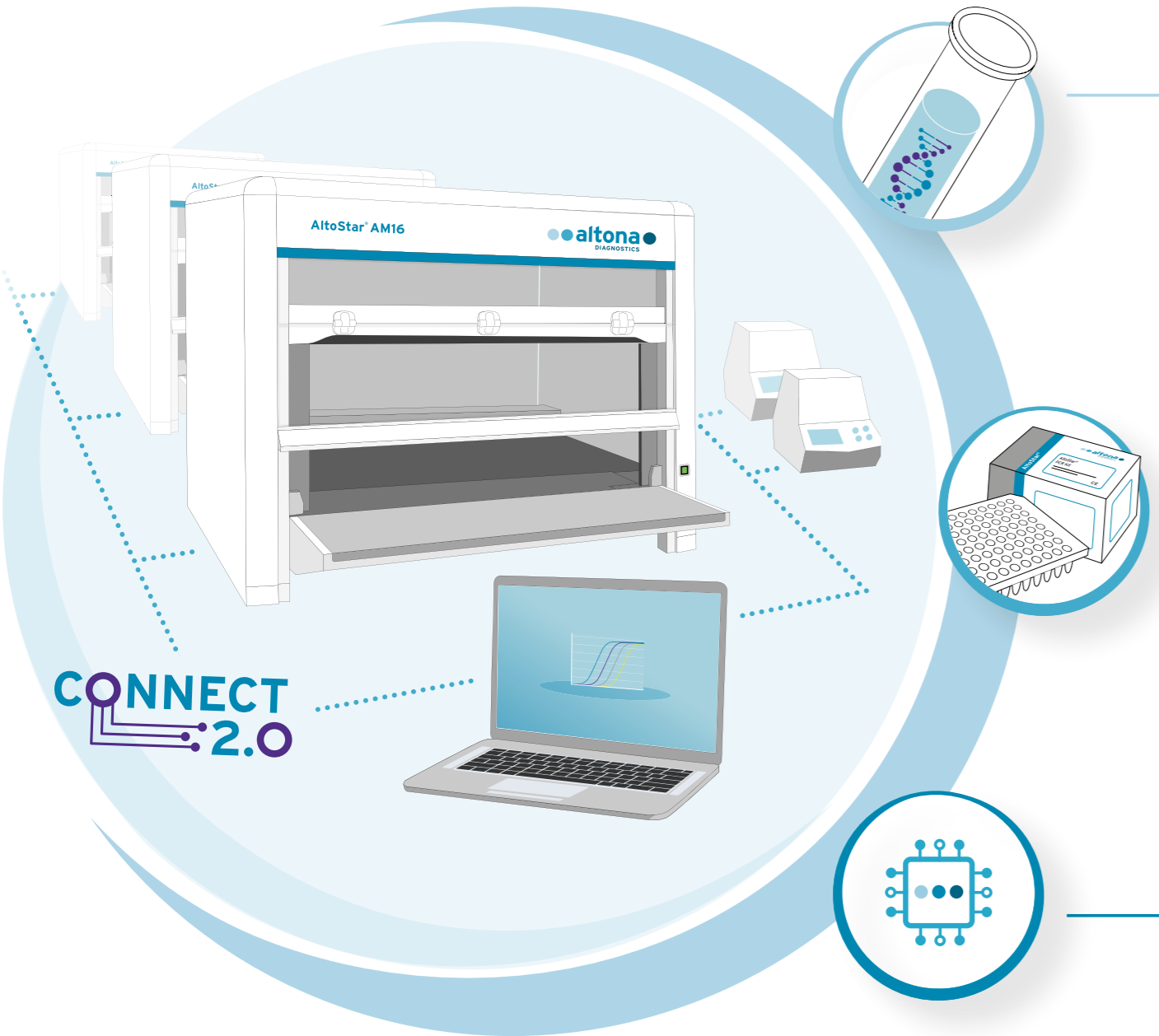


Fever, tropical &
emerging infections (FTE)



Bloodborne
infections

Maximum flexibility for highest performance



NUCLEIC ACID PURIFICATION

Flexible work orders

- Worklist automatically generated
- Add new assay orders to samples already in the purification process

Extraction efficiency

- Universal purification chemistry
- DNA & RNA extracted simultaneously

Sample flexibility

- Whole blood (EDTA or citrate), plasma (EDTA or citrate), serum, urine, stool, CSF, swabs, and BAL in the same run

Testing scalability

- From 1 to 96 samples
- Link all your AM16 instruments and transfer the data to an unlimited number of PCR cyclers*

Whole blood integration

- Blood clot detection and exclusion
- Plasma and whole blood processed together
- Use of frozen and fresh whole blood samples possible

PCR SETUP

Maximum compatibility

- Sample volumes available from 0.2 to 1 ml
- Different sample tube volumes can be mixed (2 to 50 ml)

LDT implementation

- LDTs and altona assays in the same run
- Reduced hands-on time
- Improved LDT traceability

Extended testing

- Up to 8 PCR assays run in parallel
- Customized adaptive multiplex approach with FlexStar®

Reagents' use optimization

- Master tubes can be re-used twice
- Automatic test counting

PCR consolidation

- Combine eluates from 6 different eluate plates in the same PCR run
- Programming of unlimited assays per sample
- Automatically scheduled purification runs

RESULTS MANAGEMENT

Automation

- Intergration of CFX96™ Deep Well Dx System
- Automated PCR run programming

Security & reliability

- Optional automated result interpretation with AltoStar® Analysis

- Full offline process
- Objective qualitative and quantitative PCR result interpretation

COMPREHENSIVE PORTFOLIO

We offer a broad and ever-expanding reagent portfolio, covering diverse disease areas and detecting over 70 pathogens with precision and reliability.



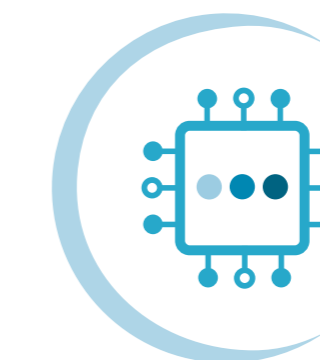
Respiratory infections



Sexually transmitted infections (STI)



Gastrointestinal infections



AltoStar® Analysis

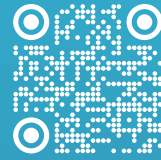
Choose the next-level automated PCR analysis

- Analyze your PCR results with a single click
- Highest data protection through offline functionality
- Seamless integration into existing laboratory IT infrastructure
- Reduced hands-on time for analysis

* CFX96™ DW Dx

CONTACT US DIRECTLY

Learn more about our AltoStar[®] Molecular Diagnostic Workflow



Assay portfolio	Transplant & immunocompromised; respiratory infections; gastrointestinal infections; bloodborne infections; fever, tropical & emerging infections (FTE), sexually transmitted infections (STI)
Validated sample types**	Human whole blood (EDTA or citrate), plasma (EDTA or citrate), serum, urine, stool, CSF, swabs, BAL
Sample volume	200 µl, 500 µl or 1000 µl, parallel processing in one run
Sample handling	Various types of primary and secondary sample tubes
Sample capacity	1-96 for 500 µl input volume / 1-48 for 1000 µl input volume
Mixed batches	Up to 6 eluate plates to be combined in the same run
Purification	Ready-to-use reagents, no refilling or mixing necessary One chemistry for DNA and RNA
AI supported PCR analysis (optional)	Results with a single click Reduced hands-on time On-premise solution
Throughput	Up to 384 tests per run (96x4)
Process reliability	Barcoded reagents for full traceability Tracking of sample information and worklists Automated monitoring of pipetting steps (TADM)
LIS connectivity	Bidirectional LIS interface
CE-IVD status	All components (instruments and reagents) CE-IVD marked

** Sample type varies depending on the assay used.



We offer our customers an outstanding service quality. We guarantee customized support on a high level – during the implementation phase and permanently on demand - completed by the altona on-site training concept that consists of three phases:

1. Workflow demonstration
2. Training of staff for routine testing
3. Support whenever needed

HEADQUARTERS

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