



AltoStar® Molecular Diagnostic Workflow

Automate your real-time PCR testing

AltoStar® Automation System AM16

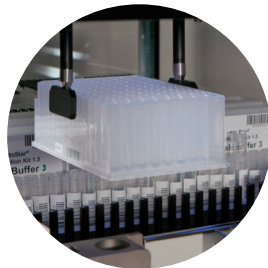
Automate your real-time PCR testing

Entire workflow



- DNA and RNA purification in one run
- Real-time PCR setup
- Automated cyclers programming
- Expandable system for additional cycler

Cost efficiency



- Optimized consumables management
- Minimized residual volumes
- Reuse of partly consumed reagents
- Few pipette tips per reaction

Convenience



- Ready to use reagents for purification and real-time PCR
- Use of primary or secondary sample tubes
- Freely selectable positions for samples
- Loading of backup reagents and consumables
- User friendly control AltoStar® Connect software
- Full access to eluates

Process reliability



- Barcoded reagents for full traceability
- Ready to use reagents for consistent quality
- Lot number checking
- Expiry date checking
- Total Aspiration and Dispense Monitoring (TADM) – patented technology from Hamilton

High flexibility



- All validated sample types in one run
- Combine up to eight assays in one run
- Run up to four assays from one eluate
- Scalable from 1–96 samples, no minimum batch size
- Low and high sample volume in one run

Many sample types



- One purification kit for both DNA and RNA assays
- Process various sample types with one purification chemistry
- One universal Internal Control (purification, PCR)
- EDTA and citrate whole blood, EDTA and citrate plasma, serum, urine, stool, CSF, swabs

Automation of LDTs



- Implementation of in-house PCR protocols
- Use of own PCR components
- LDTs and CE-IVD marked assays in one run
- Automated nucleic acid extraction using AltoStar® Purification Kit 1.5

Broad assay menu



- Wide range of test kits for the detection and quantification of pathogens
- Transplant & Immunocompromised; respiratory infections; gastrointestinal infections; bloodborne infections; fever, tropical & emerging infections (FTE)

AltoStar® Connect

Your AltoStar® Workflow software



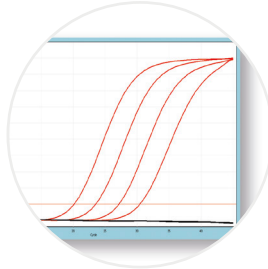
- Great flexibility in sample and assay combination
- Self explanatory, intuitive user interface



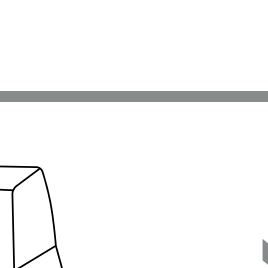
- Loading dialog guides through the whole process, each loading step assures completeness of setup procedure
- Connected to one or more real-time PCR instruments



- Automatic programming of connected real-time PCR instruments
- Bidirectional LIMS interface / Lab integration



- Import of sample data
- Export of results



- Data import possible by using barcode reader or via LIMS

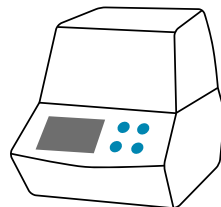
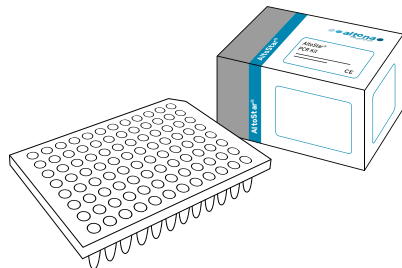
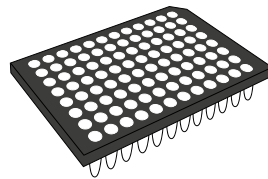
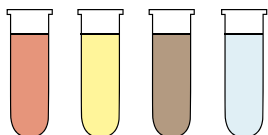
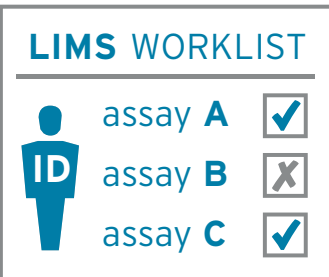


- Predefined purification protocols



- Automated selection of controls and quantification standards

WORKFLOW



LIMS

AltoStar® Connect software

Sample preparation

PCR setup

Cycler PCR

Analysis

LIMS

Automated workflow from samples to PCR

Assay portfolio	Transplant & Immunocompromised; respiratory infections; gastrointestinal infections; bloodborne infections; fever, tropical & emerging infections (FTE)
Validated sample types	EDTA and citrate whole blood, EDTA and citrate plasma, serum, urine, stool, CSF, swabs
Sample volume	500µl or 1000µl, parallel processing in one run
Sample handling	Various types of primary and secondary sample tubes
Sample capacity	1–96 or 1–48 (500/1000µl sample volume)
Mixed batches	All sample types in parallel Up to 8 assays in the same run
Purification	Ready-to-use reagents, no refill or mixing necessary One chemistry for DNA and RNA
Throughput	Up to 384 analyses per run (96x4)
Process reliability	Barcoded reagents for full traceability Tracking of sample information and worklists Automated monitoring of pipetting steps (TADM)
LIMS connectivity	Bidirectional LIMS interface
IVD compliance	All components (instruments and reagents) CE-IVD marked

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 when needed



You would like to learn more about our AltoStar® Molecular Diagnostic Workflow?
Contact us directly for a product demonstration!

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