

## Automated workflow from samples to PCR

Validated sample types	Human EDTA and citrate whole blood, EDTA and citrate plasma, serum, urine, stool, CSF, swabs in viral transport medium
Sample volume	500µl or 1000µl, possible to combine in one run
Sample handling	Various types of primary and secondary sample tubes
Maximum 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, no refill or mixing necessary One chemistry for DNA and RNA
Throughput	Up to 384 analyses per run
Process reliability	Barcoded reagents for full process control Tracking of sample information and worklists Automated monitoring of pipetting steps (TADM)
LIMS connectivity	Bidirectional LIMS interface
IVD compliance	Workflow meets the requirements of IVD directive 98/79/EC

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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## AltoStar® Molecular Diagnostic Workflow

Automate your Real-Time PCR testing

# AltoStar® AM16

Automate your Real-Time PCR testing

## Entire Workflow



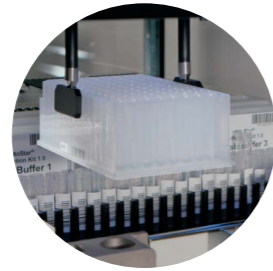
- DNA and RNA purification in parallel
- Real-time PCR reaction setup
- Automated cyclers programming
- Expandable system for additional thermal cycler

## High Flexibility



- All sample types in one run
- Combine up to eight assays on a 96 well plate
- Analyze up to four pathogens from a single sample
- Scalable from 1-96, no minimum batchsize
- Low and high sample volume possible in one run
- Sample carriers can be unloaded any time after sample processing

## Cost Efficiency



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

## Any Sample Type



- One purification kit for both DNA and RNA assays
- Process any sample type with one purification chemistry
- One universal Internal Control (sample, purification, PCR)
- Full compatibility between purification and real-time PCR kits

## Convenience



- Ready to use reagents for purification and real-time PCR
- Use of primary or secondary sample tubes
- Freely selectable positions for samples
- Load backup reagents and consumables
- No refill or mixing of solutions necessary
- User friendly control software AltoStar® Connect
- Full access to eluates

## Time Saving



- Automated workflow from samples to PCR
- Reduced hands-on-time

## Process Reliability



- Traceability: barcoded reagents for full process control
- Ready to use reagents for consistent quality
- Lot checking
- Expiry date checking
- Total Aspiration and Dispense Monitoring (TADM) – proven technology from Hamilton

## Broad Assay Menu



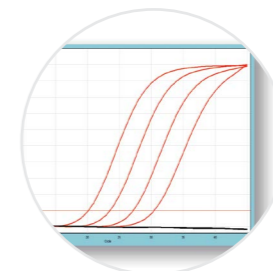
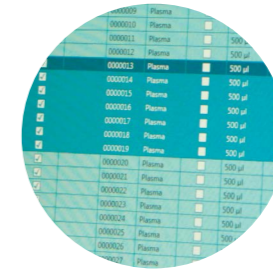
- Wide range of test kits for the detection and quantification of pathogens
- Convenient implementation and automation of Laboratory developed tests (LDTs)

# AltoStar® Connect

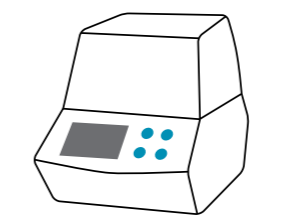
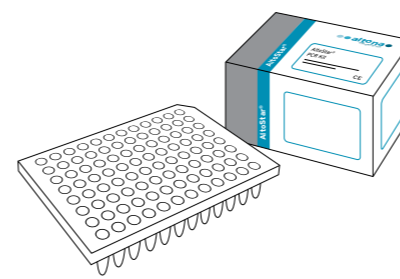
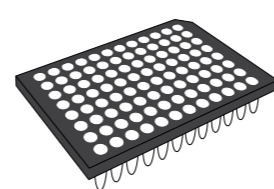
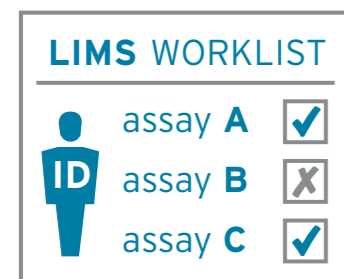
Your AltoStar® Workflow Software



- Time saving state-of-the-art workflow software
- Self explanatory, intuitive user interface
- Loading dialog guides through each loading step assuring 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 information and worklist
- Export of results
- Data import possible by using barcode reader or via LIMS
- Predefined purification protocols
- Automated selection of controls and standards



## WORKFLOW



CFX96™ DW Dx



LIMS



AM16 Sample Preparation

PCR Setup

Cycler PCR

Analysis