

DABIS DC540

Automated Chemistry Analyzer



Performance up to 540 test/hour
Liquid Level Detection
Dedicated reagents, ready for use
ISE Integrated
Barcode for sample and reagents

Washing unit integrated 8 steps
Reagents refrigerated area
Minimum volume of sample and reagents
R1 and R2 separate pipettes
Friendly software in Windows

System Function

Analysis: Clinical Chemistry, Immunturbidimetric
Analysis modes: End-point, Two-points and Kinetic.
Programming: System with user keys
Up to 540 tests / hour with ISE
Continued access equipment
Prioritization of urgent samples

Reagent Handling

Reagents positions: 80 refrigerated positions
Cooling temperature: 4 - 15°C
Volume of reagents:
R1: 150 - 350 μ L, 1 μ L adjustable
R2: 20 - 250 μ L, 1 μ L adjustable

Reaction System

Reaction cuvettes: 100 positions
Cuvette optical length: 5 mm
Reaction volume: 150 - 500 μ L
Reaction temperature: 37°C adjustable 0.1°C
2 mixing probes
Automatic washing unit 8 steps

Sample Tray

Sample positions: 100 positions
Sample volume: 2 - 45 μ L, 0.1 μ L adjustable

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Optical Measurement System

Absorbance range: 0 – 2,500 Abs
Wavelengths: 304 nm, 405 nm, 450 nm, 505 nm, 540 nm,
570 nm, 600 nm, 635 nm, 670 nm, 700 nm, 760 nm, 795 nm.
Resolution: 0.0001 Abs

Parameter Setting

Different levels of user permission
Different reference range according to gender and age
Calculated items available
Manual items input available
Automatic rerun
3 - 150 times auto dilution



ISE Module

Optical selection: K⁺, Na⁺, Cl⁻
Throughput: up to 270 tests per hour
6 months shelf life

Sample System

Multi-Functional sample probe
Interior and exterior probe washing
Liquid level detection
Collision Protection
Probe depth adjust automatically
Sample volume as low as 2 µL

Working Conditions

AC power 100/240 V 50/60 Hz
Temperature: 10 - 35°C
Humidity: 35 - 80%
Water consumption: Max 2.5 L / hour
Dimensions: 1150 mm (L) x 730 mm (W) x 1150 mm (H)
Weight: 120 kg



Refrigerated Reagent Tray

80 reagent positions for R1, R2, R3, and R4
Compatible with Hitachi reagent bottles
24 hours non-stop cooling with peltier element
Ready to use stable system
Built In reagent bar code reader (optional)



Multi-Functional Sample Tray

100 sample positions
7 virtual sample disks (Optional)
Support standard tube, primary tube, EP tube
Automatic dilution of high concentration sample
Automatic rerun
Built in sample bar code reader (optional)

Unique Washing Station

High precision washing liquid control to guarantee washing function
Washing solution pre-heating to prevent any carryover
Maintain ideal temperature for testing
8 steps auto-washing
Separate drainage for high and low concentration waste
Ceramic syringe for auto washing system, high accuracy

QC Graph

QC type: Real Time QC, Daily QC, Day to day QC
Control Rule: Multi-Rules QC, Intelligent QC alarm

Calibration Setting

Refitting: Fitting different types of calibration curve with a certain standard data, thus choosing the best calibration curve.

Statistics

Calculate the mean value, standard deviation and coefficient of variation
Statistics of reagent usage
Statistics of test volume



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