

cobas c 311 analyzer

Technical specifications

System	Fully automated, random access analyzer for Clinical Chemistry, Electrolytes & Homogeneous Immunoassays (HIA)
Test Throughput	Up to 300 tests/hr (photometry), 450 tests/hr (ISE only) and 300 tests/hr (mixed)
Reagent concept	Barcoded cobas c reagent packs with convenient packaging & ready-to-use reagents
Onboard reagent capacity	Up to 45 assays (42 cooled cassette slots + 3 channels for ISE)
Programmable parameters	Up to 117 photometric, 3 ISE tests, 8 calculated parameters & 3 serum indices
Sample types	Serum, Plasma, Urine, CSF & Whole Blood
Onboard sample capacity	108 positions with continuous access & STAT interrupt capability
Sample container types	Primary tubes: 5 – 10 mL (16x100, 16x75, 13x100, 13x75 mm) Sample cup: 2.5 mL Micro cup: 1.5 mL Cup on tube
Sample volume	1.0 to 35 µL in 0.1 µL steps
Sample clot detection	Yes
Minimum sample volume	Primary tubes: 700 µL Sample cup: 100 µL Micro cup: 50 µL
Sample barcode types	Code 128, Codabar (NW 7), Interleaved 2 of 5, Code 39
System interfaces	Touchscreen PC, RS 232 serial interface, bi-directional, cobas [®] link (TeleService and auto download)
Sample database	10,000 routine/STAT samples
Test methods	1 point, 1 point + prozone check, 2 point, 2 point kinetic, 2 point + prozone check, 3 point, 1 point + kinetics, Rate A, Rate A + serum index, Rate A with blank, Rate B
Calibration methods	Linear, non-linear multi-points, 2 point calibration, K-factor, up to 100 calibrators pre-programmable, storage of up to 180 curves; Preventive calibration of stand-by cassettes.
QC methods	Real-time, individual & cumulative QC; Auto QC; Up to 100 different controls pre-programmable; Preventive QC after calibration of stand-by cassettes
Rerun/repeat/reflex	Automatic rerun/manual reruns, repeats & automatic reflex supported
Electrical requirements	Power requirements: 230/400 Volts AC 3/N/PE, 110 Volts AC 1.5 kVA Frequency: 50 Hz or 60 Hz +/- 0.5 %
Water/waste requirements	Water quality: Bacteria free, de-ionised water supply resistance of 1.0 µS/cm max. Water consumption: Up to 12 l/hr during operation Water pressure: 0.5 – 3.5 kg/cm ³ (49 – 343 KPa) Water temperature: 15 to 30°C Biohazards waste: Separate container located in the system Wall drain for waste: 100 mm above the floor
Regulatory compliance	GS, CE, UL, C-UL compliant
Operating conditions	Ambient temperature/humidity: 15 to 32°C/30 to 85% (RH, without condensation) Heat & noise output: 2 kcal/h; < 65 dB
Physical dimensions	Width: 134 cm Depth: 86 cm Height: 126 cm Weight: 270 kg

COBAS, COBAS C, COBAS E, LIFE NEEDS ANSWERS and TINA-QUANT are trademarks of Roche.

Other brand or product names are trademarks of their respective holders.

©2010 Roche

Roche Diagnostics Ltd.
CH-6343 Rotkreuz
Switzerland
www.roche.com

cobas e 411 analyzer

Technical specifications

System	Fully automated, continuous loading and random access system for immunoassay analysis based on ECL technology. Available as a disk and rack system. System components: Analytical module including touchscreen PC
Test Throughput	Up to 86 tests/hr
Reagent concept	cobas e reagent pack: Ready-to-use reagents Onboard reagent capacity: 18 channels/reagent slots for up to 18 different assays Evaporation protection: Automatic closure of reagent lids
Programmable parameters	Max 60 assays definable via 2D-barcode including all necessary information (programming by loading)
Sample types	Serum, Plasma, Urine and others
Onboard sample capacity	Load/unload capacity: Disk: 30 samples Rack: 75 samples on 15 RD standard 5 position rack Rack types: Routine, STAT, Control, Calibrator STAT handling: Disk: Any unoccupied position on the sample disk Rack: Dedicated STAT port on rack feeder
Sample container types	Primary tubes: 5–10 mL; 16x100, 16x75, 13x100, 13x75 mm Sample cup: 2.5 mL Cups on tube
Sample volume	10 to 50 µL per test, depending on assay protocol
Sample probe	Disposable tips for individual sample to avoid carry over; Sample clot detection; Liquid level detection
Sample barcode types	PDF417, Code 128, Codabar (NW 7), Interleaved 2 of 5, Code 39
System interfaces	Touchscreen PC, RS 232 serial interface, bi-directional Standard PC ports (USB, ethernet, serial etc) for other communication devices
Sample database	2,000 results for routine, STAT and controls
Test methods	Pre-defined assay protocols (sandwich, competitive, titration)
Calibration methods	2-point calibration per lot or per cobas e reagent pack
QC methods	Individual QC; Cumulative QC; Preventive QC after calibration
Rerun/repeat/reflex	Rerun, repeat and reflex supported
Electrical requirements	Power requirements: 100–120 VAC 50/60 Hz single phase or 200–240 VAC 50/60 Hz single phase Power consumption: 1,000 VA
Water/waste requirements	Water supply: 3l container Water quality: ≤10µS/cm or ≥0.1 mega Ohm, bacteria-free Liquid waste: 4l container with overflow detection or direct drain Water consumption: Approx. 3l for 250 tests/approx. 12 mL/cycle
Regulatory compliance	GS, CE, UL, C-UL, CB-report and certificate
Operating conditions	Ambient temperature: 8 to 32°C (64.4°F to 89.6°F) Ambient humidity: 20% to 80% Noise output: 60 dbA (stand-by mode), 63 dbA (avg. during operation)
Physical dimensions	Width: 120 to 170 cm (disk/rack) Depth: 73 to 95 cm (disk/rack) Height: 56 cm (w/o PC unit) Weight: Approx. 170 kg (disk) and 210 kg (rack)

COBAS, COBAS C, COBAS E, LIFE NEEDS ANSWERS and ELECSYS are trademarks of Roche.

Other brand or product names are trademarks of their respective holders.

©2010 Roche

Roche Diagnostics Ltd.
CH-6343 Rotkreuz
Switzerland
www.roche.com