



cobas® c 111 analyzer

Small box. Big performance.







cobas® c 111 as a part of Roche's portfolio with small footprint

Blood Gas & Electrolytes









Infectious Diseases

000

cobas® liat

Cardiometabolics





cobas® h 232 POC system

Coagulation









Glucose



Accu-Chek

Instant





Accu-Chek

Active





SARS-CoV-2 Rapid

Antigen Test 2.0 Nasal



Urine



















Accu-Chek Mobile





Settings













cobas® c 111 analyzer

An instrument designed to fit in many ways



Routine

Perfectly suited as a **main analyzer** for:

- Small labs
- Small hospitals & clinics
- Satellite labs of larger networks



Backup

Serves well as a **backup analyzer** for larger **cobas**® clinical chemistry analyzers



Dedicated

Used as a **dedicated analyzer** for:

- **STAT samples** in emergency and intensive care departments by trained lab professionals
- **Special testing** such as only for HbA1c





Why customers choose the **cobas**® c 111 analyzer?

Small box. Big performance



Excellent performance

Roche lab quality test results with high accuracy and precision¹⁻³



Highly reliable system

Robust system design, requiring a repair visit only once per 1.5 years^{1*}



Globally trusted technology

~6700 installed active analyzers across 125 countries¹



Standard Roche results

Aligned results across Roche **cobas**® platform using same reagent chemistry²



High Roche service level

90% of **cobas**® c 111 customers are satisfied or very satisfied with service & support¹



Compact and convenient

Over 40 different tests on only 0.3m², easy to use touch screen & software, low water consumption (<3l / day)



Quality made in Switzerland

Roche quality analyzer produced in the heart of Europe¹

LIS: Laboratory information system.

^{*} Independent from repair visits, regular maintenance visits are required. Please refer to the Operator's Manual for more information.





Smart features make the **cobas**® c 111 analyzer a great solution⁴

Good fit for labs processing up to 85 tests per hour



Exchangeable disks for flexible reagent handling

- Preparation of up to 8 different reagent disks adaptable to individual panel testing
- Each reagent disk can hold up to 27 bottles which allows for
 13 different tests in one reagent disk
- Prepared reagent disks can be stored in a fridge until needed and with one disk on board*



Low water consumption of up to 3 litres per day

 Independent and flexible water supply with 3 litre water and waste containers



Intuitive software design for easy operation

- Guiding software wizard for daily start-up and maintenance procedure
- "Time to Result" indicator for **predictable walk away time**



Streamlined sample handling for enhanced efficiency

- Easily load any sample tube type into the sample loading area, without the need for manual configuration
- Experience uninterrupted workflow with continuous sample loading (up to 60 cuvettes), eliminating the need to stop the instrument for new samples

 $[\]ensuremath{^{*}}$ Within the shelf life of the respective parameter.





High level performance on a small footprint⁴



Dynamic transfer head

- Multifunctional and lean design significantly reduces complexity by performing three functions in one:
 - 1. Sample pipetting 2. Reagent pipetting 3. Mixing of sample and reagent
- Sample probe is washed between steps to prevent carry-over

Sample loading area

- Samples can be loaded and unloaded continuously into eight positions
- STAT processing prioritizes emergency samples for next pipetting cycle
- Onboard sample and calibrator dilution

User interface

- User-friendly and easy to use user interface
- Online help function as a quick reference guide for system operation
- Software-driven start-up and maintenance procedures save daily setup time

Core unit

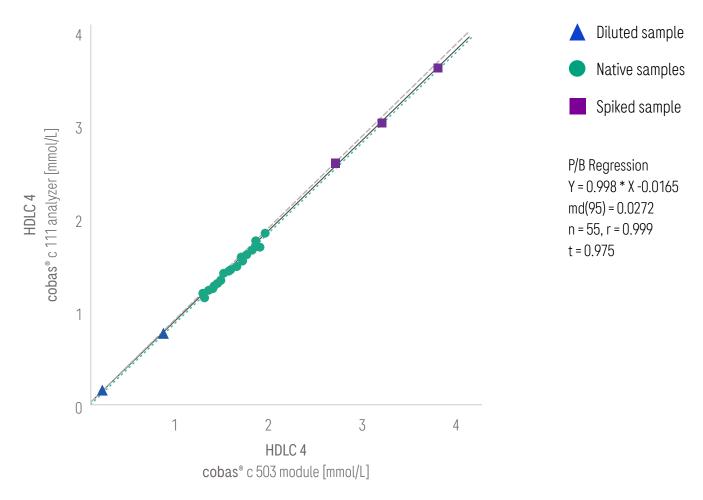
- Photometric testing for clinical chemistry and homogeneous immunoassays
- Interface for external barcode reader, reducing manual data entry errors
- Disposable cuvette segments to reduce water consumption
- Host connectivity options for convenient data management
- Integrated thermal printer



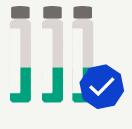


Comparable with larger Roche clinical chemistry analyzers, using common reagent chemistry

HDL-Cholesterol Gen.4 method comparison



Proven consistency of results⁵



Same reagents used for **cobas**[®] c packs and **cobas**[®] c 111 reagent bottles, delivering comparable results across the **cobas**[®] platform



Same calibrators and controls available for all **cobas**® clinical chemistry analyzers





Test parameters¹

Anemia

Iron

Lactate dehydrogenase

Cardiac

Cholesterol

Creatine kinase (CK)

CK-MB

CRP hs

D-Dimer

HDL cholesterol

LDL cholesterol-direct

Infectious Diseases

CRP (latex)

Inflammation

CRP (latex)

Bone

Phosphorus

Endocrinology

Amylase - pancreatic

Amylase - total

Lipase

Metabolic

Bicarbonate (CO2)

Calcium

Glucose

HbA1c (hemolysate)

HbA1c (whole blood)

Lactate

LDL cholesterol-direct

Magnesium

Total protein

Triglycerides

Coagulation

D-Dimer

Hepatology

Alkaline phosphatase (IFCC)

ALT/GPT with and without Pyp

Ammonia

AST/GOT with and without Pyp

Bilirubin - direct

Bilirubin - total

Gamma glutamyl transferase

Lactate dehydrogenase

Renal

Albumin BCG

Albumin immunologic

Creatinine (enzymatic)

Creatinine (Jaffé)

Urea/BUN

Uric acid







Specifications⁴

System	cobas® c 111 analyzer A continuous random- access analyzer intended for the in vitro determination of clinical chemistry parameters	
Test throughput	60-85 photometric tests/hr	
Sample types	Serum, plasma, urine, whole blood (HbA1c)	
Sample input	Continuous loading of primary and secondary tubes into 8 sample positions Priority STAT sampling	
Time to first result	5-10 min for photometric measurements	
Sample container types	Primary tubes Sample cup Micro cup Cup on tube False bottom tube	5-10 mL; 16 ×100, 16 ×75, 13 ×100, 13 ×75 2.5 mL 1.5 mL Cup on 16 ×75 mm tube
Sample volume	Min. sample volume:	Primary tubes 500 μL Sample cup 75 μL Micro cup 50 μL
Sample barcode types	Code 128, Codabar 2 of 7, Interleaved 2 of 5, Code 3 of 9, Codabar, EAN, UPC (A, E) QR, Aztec and DataMatrix	
Sample dilution	1.2-100 times	
Photometer	12 wavelengths, 20 W halogen lamp, monochromatic and bichromatic measurement	
Measurement principles	Absorbance photometry (enzymes, substrates, specific proteins)	
Reagents	2D barcoded system reagent bottles, 50–100 tests/bottle Photometric: 27 onboard reagent positions for approx. 13 assays Up to 8 exchangeable reagent discs available	
Reaction cells	Disposable micro-cuvettes	
Control unit	8.0 inch active matrix (WXGA 1024 ×768 pixels)	
System interfaces	2 × RS 232 serial interface, bi-directional (ASTM protocol) for host and barcode scanner USB 1.1/2.0 for backing up data or loading data on the analyzer (USB flash drive)	
Electrical requirements	Line voltage Line frequency Power consumption Installation category I	100-125 V and 200-240 V AC (-15 %, +10 %) 50Hz (± 5 %) and 60Hz (± 5 %) 250 VA I (IEC 61010-1)
Physical dimensions	Width: Depth: Height: Weight:	590 mm 550 mm 480 mm 32 kg
Water requirements	Up to 3 liters/day NCCLS Type II (conductivity <1 μS/cm at 25 °C)	
Regulatory requirements	CE, UL, C-UL	
Open system	Development channel with 1, 3 or 5 channels available	





References

- 1. Data on file.
- 2. Roche (2023). Calculated method comparison of **cobas**° c 501 vs. **cobas**° c 111. Data on file.
- 3. Roche Diagnostics International Ltd. Method Sheets of major parameters: A1C-2, CRP4, LDLC4, LDLC3 and TRIGL.
- 4. Roche Diagnostics International Ltd. **cobas**° c 111 analyzer User Guide Version 4.5 Software Version 4.3
- 5. Roche (2023). Measured method comparison of **cobas**° c 503 vs. **cobas**° c 111. Data on file.

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