

*Commercial availability of this product differs by country due to local regulatory approval timelines and/or local business strategy







01 cobas e 402 analytical unit¹

Up to **120 Immunochemistry** tests per hour **28** reagent positions

02 Sample supply Unit¹

Up to **50** samples direct loading Up to **50** samples direct unloading STAT port

03 cobas c 303 analytical unit¹

Up to **450 photometric** tests per hour Up to **450 ISE** tests per hour Up to **750 tests** per hour (mixed mode photometric and ISE) **42** reagent positions

cobas® pure integrated solutions *Simplicity meets Excellence*

Today more than ever, the importance of accurate and timely diagnostics is clearly understood. The journey from blood collection to the final test result, however, requires the highest level of dedication, expertise and diligence of the laboratory staff.

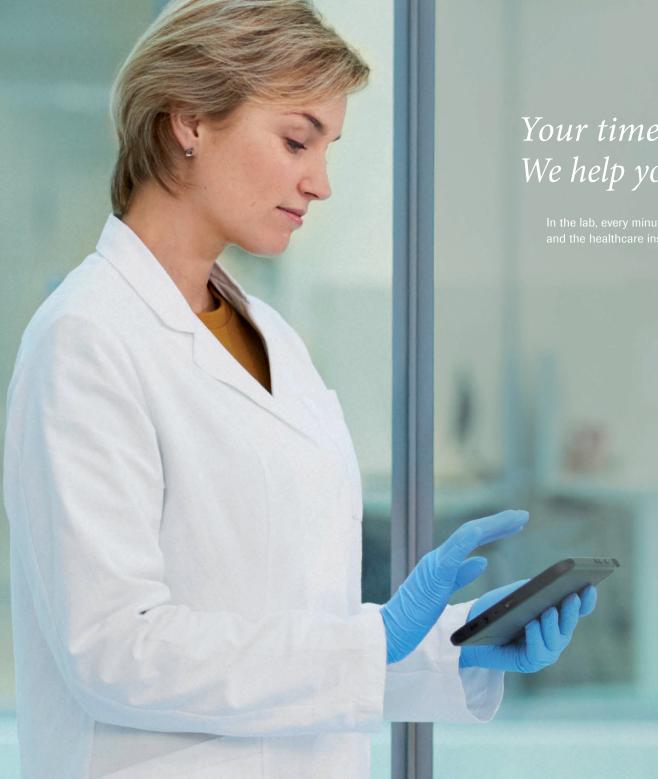
To support you in this, Roche has developed innovative integrated solutions renowned for quality and excellence.

cobas pure is the newest member of the **cobas** family of systems, designed to deliver excellence, while at the same time simplifying your daily work. **cobas pure** combines clinical chemistry, immunochemistry and ISE testing on a footprint of just two square meters, giving access to our broad menu of more than 230 parameters, including many unique high medical value assays, to labs who have to deal with limited space.

To simplify daily operation, **cobas pure** comes with new features that minimize the hands on work for the operators, thus saving precious time.

To ensure simple and effective work for network organizations, **cobas pure** provides fully standardized results and operation to **cobas® pro** integrated solutions – Roche's latest analyzer designed for larger labs.

Because simplifying any step of the journey, while ensuring excellent quality, can help deliver faster and more accurate diagnosis.



Your time is precious We help you use it wisely

In the lab, every minute counts – for you and your team, for the physician and the healthcare institution, for the patient and their family.



Empower your physicians to take action faster

Standards are being raised across health systems, as patient and physician satisfaction and fast clinical decision making are becoming more prominent quality metrics. Choosing an analyzer that supports short and predictable turnaround times at peak times is a key to meet these standards.



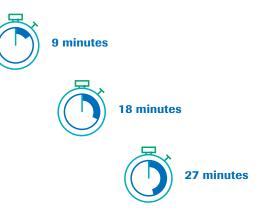
Get answers fast with short and predictable turnaround times

cobas® pure integrated solutions is designed to support fast and predictable turnaround times across all assays.

93 % of Roche immunoassays have reaction time of 18 minutes or less, with STAT assays having just 9 min reaction time.²

To offer full transparency, **cobas pure** allows the operator to see the time to result per sample and per test as well as the time to last result on all ordered tests.

Roche reaction times²







Benefit from reduced system preparation and hands-on time

Free up staff time with reduced hands-on maintenance efforts

With **cobas**[®] **pure** integrated solutions, every effort has been made to reduce hands-on maintenance tasks to a minimum. The new and smart concept of self-operating maintenance executes maintenance tasks automatically in the background and reduces the manual burden of daily maintenance to 5 min.¹

Save time and costs with cobas® AutoCal

The clinical chemistry module of **cobas pure** comes with a significantly simplified calibration concept – automated calibration. With **cobas** AutoCal, new reagent lots for the majority of clinical chemistry tests are calibrated automatically, without the need for manual calibration. This can lead to 56% less calibration events, saving up to 105 hours of hands-on time yearly.*³

*For a common, daily routine workload, as compared to cobas® 6000 analyzer series <501|601> Mid Volume Commercial Lab



Your space is limited We help you make the best of it

cobas® pure integrated solutions is designed to deliver true productivity for your lab and access to our complete Serum Work Area assay menu on a compact footprint of just 2 square meters.

CITT

Three compact configurations^{*}







Immunochemistry Configuration Footprint $\simeq 1.2 \text{ m}^2$ Serum Work Area Configuration Footprint $\simeq 2.0 \text{ m}^2$

Clinical Chemistry Configuration Footprint $\simeq 1.2 \text{ m}^2$



Consolidate clinical chemistry & immunochemistry on a single platform



One sample tube for all CC & IM tests to handle



One set of results to track



One platform to manage and to be trained on



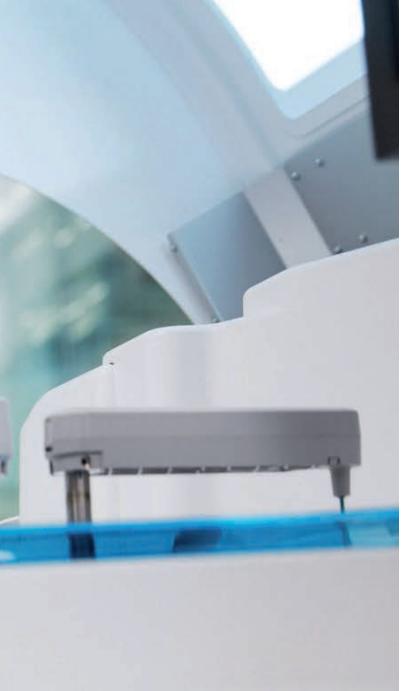
One user interface to interact with



One manufacturer to partner with

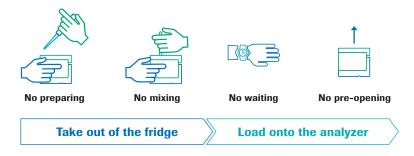
Increase productivity with our improved reagent carriers in clinical chemistry and immunochemistry

11



Ready to use reagents

cobas® pure integrated solutions uses the latest reagent generation from Roche - cobas e pack green and cobas c pack green. These reagents do not require any preparation, mixing, waiting or pre-opening. The operator can simply take them out of the fridge and load them directly onto the analyzer.



Industry's leading onboard stability

Using space intelligently is about achieving the highest output within the existing space. The average onboard stability for the immunochemistry reagents is 110 days, with 98% of the assays having an onboard stability of 4 months. The average on board stability for clinical chemistry is 137 days, with 57 % of the reagents having an onboard stability of 6 months.^{5,6}

Immunochemistry⁴

- **L**
- Up to 4 months onboard stability • \approx 3 times longer average onboard stability compared to previous generation systems

Clinical chemistry⁵

cobas c

pack green

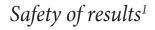
- Up to 6 months onboard stability
- \approx 2 times longer average onboard stability compared to previous generation systems

cobas e pack green



Your team is pushed to their limits We help them focus on the tasks that matter

Whilst the pressure to deliver continuously increases, keeping your team engaged and focused on value-adding tasks can be difficult but is of paramount importance for your lab's success. The **cobas® pure** integrated solutions is designed to eliminate hurdles that may cause unnecessary stress.



Disposable AssayTips/AssayCups

cobas[®] **pure** integrated solutions immunochemistry analytical unit utilizes single-use disposable AssayTips and AssayCups to completely eliminate the risk of sample carry over.

Carryover evasion program

The sample probes on the **cobas pure** clinical chemistry analytical unit are rinsed inside and outside with deionized water each time after dispensing a sample. Additionally, for applications that are sensitive to sample carryover, special wash can be programmed for an extra wash of reagent probes, sample probes and reaction cells with basic and acidic wash solutions.

Ultrasonic Mixing

The **cobas pure** clinical chemistry analytical unit features ultrasonic mixing for non-contact mixing of sample and reagent to eliminate the risk of carryover during this event.

Reliability

cobas pure is designed to deliver the reliability that Roche is known for. With more than 75,000 analytical units globally, the **cobas** family of solutions demonstrates a distinctive uptime* of more than 99 %.⁶ Having a reliable analyzer means less interruption of services and less time spent on troubleshooting, thus higher productivity with more predictable turnaround times.

*Uptime: Percentage of the time when system is up and running vs. the time the system is not running due to unplanned incidents. Calculation:

(365 days/Mean time between repair visit) × (Mean time for repair visit + Travel Time)⁶

Sample



Detection detection detection

Liquid Level Foam Detection detection

Immunochemistry

Reagent

Clinical Chemistry



Carryover Ultrasonic evasion Mixing of sample program and reagent Single-use Single-use AssayTip AssayCup



99% uptime of our existing portfolio of more than 75,000 analytical units globally ⁶





Bring more confidence to your team with reliable and safe solutions

Unplanned downtime and lack of confidence in results are some of the most stressful things that can happen in the lab. They shift attention to time-consuming, hands-on workarounds or sample reruns which can affect staff morale and motivation.

Additionally, they pose risks to the quality of results and the lab's reputation. With **cobas® pure** integrated solutions is designed to deliver excellent reliability through sound system architecture and confidence in the results through various safety features.

Enable your team to work more efficiently through standardized solutions

Lab standardization enables you to do more work on fewer instruments, through consolidation of workflow, systems and reagents. Standardization also provides efficient and compatible solutions for network cooperation.



Essential benefits of standardization

Improved speed and accuracy of care

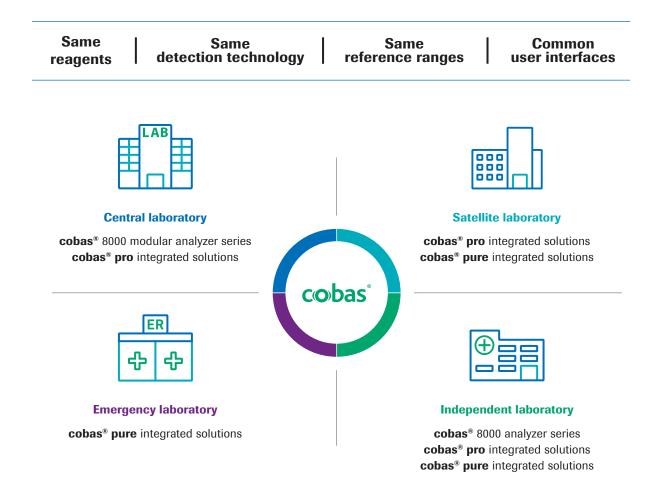
Same reagents and detection technology mean standardized reference ranges which improve the speed and accuracy of care.

Simplified training and staff allocation

Common user interfaces between our **cobas**[®] systems simplify training and allow for flexible staff allocation as healthcare centers are consolidating into larger integrated health networks.

Optimized patient management

Consistent results over time and across different locations enable optimized patient management.





Your future is unpredictable We help you succeed through continuous access to innovations

Choosing the right solution and vendor to partner with is not a small undertaking – it is a choice that impacts your lab's ability to fulfill performance and quality standards but also your ability to remain competitive. At Roche we believe in the power of innovation to advance and improve diagnostics – for a better future of the patients and your lab.

Support better outcomes by delivering greater medical value



Focused innovation of our assay portfolio

Extending evidence base

Extending the evidence-base for existing assays through clinical studies to generate higher awareness and broader access to innovation.

New claims for existing assays

Generating new claims for existing assays for a wider range of application.

Discovery of new assays

Menu expansion in the areas of unmet medical needs to help clinicians improve outcomes for their patients.

Bring Personalized Healthcare to clinical practice

Supporting better patient care, contributing to health economics and empowering labs to play a greater role in medical decision making.

Commitment to exceptional assay quality

Advanced assay design

- Outstanding precision across measuring range
- High sensitivity in areas where it matters
- Wider measuring ranges, fewer dilutions and repeats

Consistent, standardized results

- Consistent patient results across all platforms
- Excellent lot-to-lot consistency
- Assays standardized against reference method or reference material

Designed for convenience

- · Short and predictable assay Turn Around Times
- Low sample volume
- No reagent preparation required

Introducing the new generation of solutions from Roche – cobas[®] integrated solutions



cobas[®] pure integrated solutions

cobas[®] pro integrated solutions

Delivering seamless design today and into the future



Shared reagents packs



Consistent results



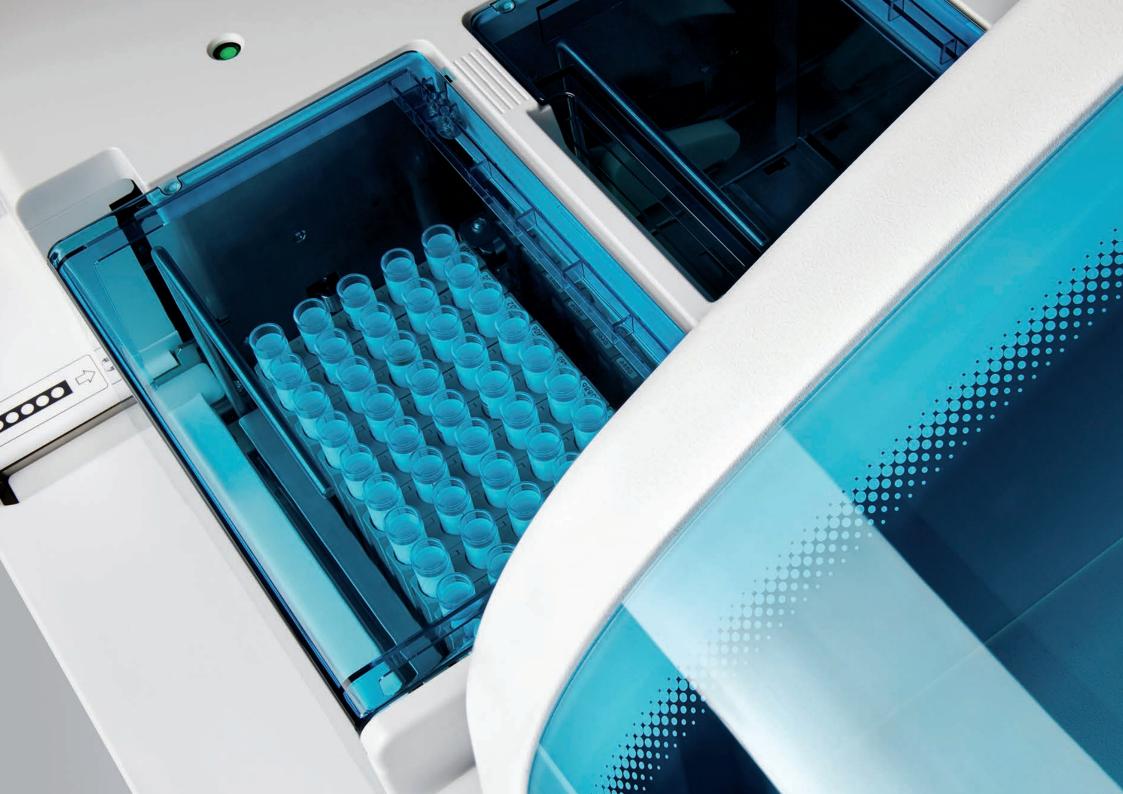
Consistent operation



Same technologies



Same assay menu





cobas® pure integrated solutions *General technical specifications*

Dimensions and Weights	Width	Depth	Height	Weight
Sample Supply Unit (SSU),	450 mm	800	1,750 mm	200 kg
(excl. STAT port and incl. touch screen monitor)	17.7 inch	31.5	70.0 inch	441 lb
cobas c 303 (incl. ISE) analytical unit	1,000 mm	800	1,375 mm	400 kg
	39.4 inch	31.5	54.1 inch	882 lb
cobas e 402 analytical unit	1,000 mm	800	1,375 mm	400 kg
	39.4 inch	31.5	54.1 inch	882 lb
SWA System Configuration	2,450 mm	800	1,750 mm	1,000 kg
<c 303="" 402="" e="" ssu="" =""></c>	96.5 inch	31.5	70.0 inch	2,205 lb

Specifications of the electric	al power supply	cobas pure

≤5m (16 feet)
Single Phase AC
200/208/220/230/240 V
50/60 Hz
≤ 10 %
\leq 4.0 kVA
Whole System: < 4.0 kVA
SSU: < 0.5 kVA
cobas c 303 AU: < 1.5 kVA
cobas e 402 AU: < 2.0 kVA

cobas® pure integrated solutions *General technical specifications continued*

	cobas c 303 (incl. ISE) analytical unit	cobas e 402 analytical unit
Deionized water supply and consumption		
Distance to instrument	≤ 5 m	≤ 5 m
	≤ 16 feet	≤ 16 feet
Conductivity	≤ 1.0 μS/cm	≤ 1.0 µS/cm
Water pressure	50 to 340 kPa	50 to 340 kPa
	0.5 to 3.4 bar	0.5 to 3.4 bar
Water temperature	>12°C	≥ 12 °C
	> 53.6 °F	≥ 53.6 °F
Approx. deionized water consumption	max. 16 L/h	max. 12 L/h
Diluted liquid waste flow rate	< 14.8 L/h	≤ 10 L/h
Maximum liquid waste volumes Highly concentrated liquid waste flow rate	< 1.2 L/h	≤ 3 L/h
Environmental conditions during operation		
Maximum altitude above sea level	3,000 m	3,000 m
Floor conditions	\leq 1/200 or \leq 0.5% inclination	\leq 1/200 or \leq 0.5% inclination
	Bearing load ≥ 5 kN/m ²	Bearing load $\geq 5 \text{ kN/m}^2$
Ambient temperature		
•	0-2,000 m above sea level 18-32°C (64.4-89.6°F)	0 – 2,000 m above sea level 18 – 32 °C (64.4 – 89.6 °F)
·	0 – 2,000 m above sea level 18 – 32 °C (64.4 – 89.6 °F) > 2,000 m above sea level 18 – 30 °C (64.4 – 86 °F)	0 – 2,000 m above sea level 18 – 32 °C (64.4 – 89.6 °F) > 2,000 m above sea level 18 – 30 °C (64.4 – 86 °F)
Ambient temperature fluctuation		



cobas e 402 analytical unit

Specifications

Specifications of the reagent system

Reagent pack types	cobas e pack green
Reagent loading/unloading	Manual
Reagent Identification	RFID
Capacity of reagent disk	28 reagent packs
Reagent storage temperature	5 – 10 °C (41 – 50 °F)

Specifications of the sampling system

Sampling cycle time	30 seconds
Sample pipetting volume	4-60 μL (1 μL steps)
Sample Liquid level detection	Available
Sample clot detection	Available
Sample air aspiration detection	Available

Specifications of the reaction system

Number of incubator disk positions	38
Reaction volume	120 µL
Incubator temperature	37 °C ± 0.3 °C (98.6 °F ± 0.5 °F)
Reaction times for tests	9/18/27 min
Mixer	Vortex

Specifications of the ECL measuring system

Measuring Cell	ECL measuring cell
Number of measuring cells	1
Maximum throughput*	120 tests/hour

*Throughput may differ based on the mix of test orders per sample

Excellent performance, simple to use and beautifully designed. The new Immunochemistry analyzer – **cobas e** 402 analytical unit.



The new **cobas c** 303 analytical unit – combining photometric and ISE testing on a footprint of just 1.2 square meters.

cobas c 303 analytical unit

Specifications

Specifications of the reagent systemReagent pack typescobas c pack greenReagent loading / unloadingManualReagent IdentificationRFIDCapacity of reagent disk42 reagent packsReagent storage temperature5 - 15 °C (41 - 59 °F)

Specifications of the sampling system

Sampling cycle time	8 seconds
Sample pipetting volume	1.0-25.0 μL (0.1 μL steps)
Sample Liquid level detection	Available
Sample clot detection	Available
Sample air aspiration detection	Available
Specifications of the reaction system	
Number of reaction cells	128
Reaction volume	75-185 μL (detectable reaction volume)
Incubation bath temperature	37.0 +/- 0.1 °C
Reaction time	3-10 min (1 min steps)
Mixer	Ultrasonic

Specifications of the photometric system

Measurements per reaction cell/10 min	46
Photometer lamp	12 V, 50 W
Photometer	Multiple wavelengths spectrophotometer
Maximum throughput*	Photometric only: 450 tests/hour
	ISE only: 450 tests/hour (150 samples/hour)
	Mixed mode Photometric & ISE: 750 tests/hour (300 photometric + 450 ISE tests/hour)**
	HbA1c only: 225 tests/hour

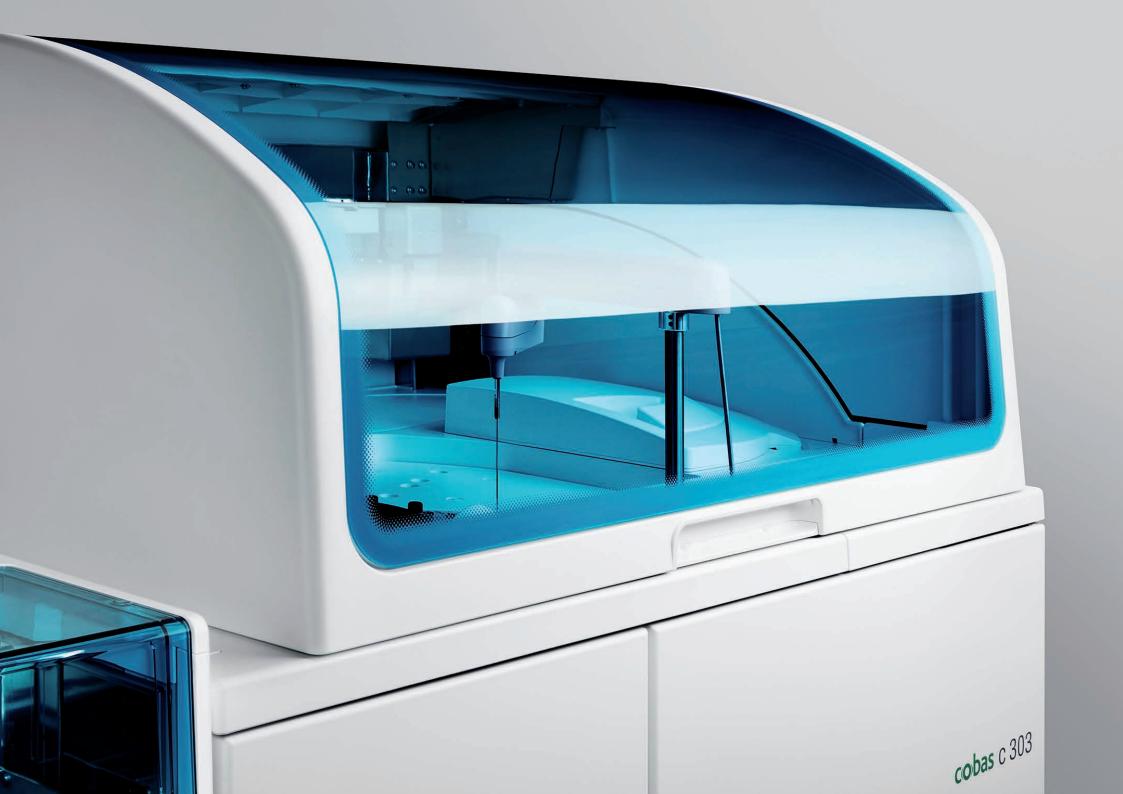
* Throughput may differ based on the mix of test orders per sample

** The ISE unit and the c 303 photometric measuring unit share the same sample pipetter



ISE unit (integrated in the c 303 analytical unit*)	Specifications
Applications	Na ⁺ : Sodium
	K ⁺ : Potassium
	Cl ⁻ : Chloride
Sample types	Serum/Plasma, Urine
Number of electrodes	Ion-selective electrodes: 3 (Na ⁺ , K ⁺ and Cl ⁻)
	Reference electrode 1
Maximum throughput**	ISE only: 450 tests/hour (150 samples)
Sampling cycle time	24 seconds per sample for ISE
Electrode handling	2D barcode placed on the electrode package
Sample Liquid level detection	Available
Sample clot detection	Available
Sample air aspiration detection	Available
Sample pipetting volumes (serum/plasma/urine)	15 μL For reruns of urine samples with a decreased sample volume after Test data alarm: 10 μL
Reagent pipetting volumes per sample	DIL 780 µL
	IS 720 μL
	REF 130 μL

* The ISE unit and the c 303 photometric measuring unit share the same sample pipetter
** Throughput may differ based on the mix of test orders per sample





References

- 1 cobas^{*} pure integrated solutions User Guide.
- 2 Elecsys assay menu **cobas pure** Analysis (source method sheets cobas e pack green).
- 3 **cobas pure** AutoCal Estimated Time Savings Internal Calculation.
- 4 Elecsys assay menu **cobas pure** Analysis (source method sheets cobas e pack green, CMP Database).
- 5 Clinical Chemistry assay menu **cobas pure** Analysis (source method sheets cobas c pack green).
- 6 Roche Diagnostics Internal Reporting Data On File GCS reporting / Product reports Q1/2020, CPS Finance Report from Tableau, ICB Q1 2020.

COBAS, COBAS C, COBAS E and ELECSYS are trademarks of Roche.

© 2021 Roche

Published by:

Roche Diagnostics (Thailand) Ltd. 18th Floor, Rasa Tower 1, 555 Phaholyothin Road, Chatuchak, Chatuchak, Bangkok 10900 Thailand

diagnostics.roche.com

Direct advertising to healthcare professionals that is exemption for permission Notice warnings on the label and accompanying documents before use

MC-TH-00772 EXPIRE 1 May 2025 AN6500853

