cobas





cobas® 5800 System System specifications

Performance specifications	cobas® 5800 System	
Time to first results (up to 24 tests)*	2 hours 45 minutes	
Subsequent batches (24 tests)	Every 60 minutes thereafter	
Maximum throughput (8 hrs 24 hrs)*	144 528 tests	
Walkaway time	up to 4 hours	
Maximum number of tests per run	24 tests including controls; with up to 6 different assays per run	
User interactions	1. Load/unload samples, load reagents and consumables as needed	
	2. Remove waste (solid and liquid)	
	3. Review and auto-release results	
cobas omni Utility Channel	Consolidate open channel assays** with Roche IVD assays on a single platform	
	 Develop and automate your own LDTs with up to 24 targets per plate 	
	 Mixed processing of open channel assays and Roche IVD assays 	

^{*}May vary based on workflow demands.
**Open channel assays may include third-party IVD assays, as well as routine lab-developed tests (LDTs).

Onboard inventory	cobas® 5800 System
Samples (Standard tubes RD-5/MPA Racks Collection medium containers)	128 80 28
Assay reagent cassettes	Up to 15 (up to 7,200 tests)
Control mini racks	Up to 16
cobas omni MGP reagent	1 (480 tests)
cobas omni specimen diluent reagent (1 L bottle)***	1 (240 tests)
cobas omni lysis reagent (1 L bottle)	2 (432 tests)
cobas omni wash reagent (4 L Bottle)†	1 (240 tests)
cobas omni processing plates 24	4 (96 tests)
cobas omni liquid waste plates 24	4 (96 tests)
cobas omni amplification plates 24	8 (192 tests)
Processing tips‡	3 x 96 (144 tests)
Eluate tips	2 x 96 (192 tests)

^{***} Calculated for the addition of 350ul

[†] For 3-4 assays per run

^{* 2} processing tips are needed per sample





Compatible tul	oes	Tube dimensions acceptable for use on the cobas ® 5800 System						
Tube size Height (without cap) Outside diameter (includes barcode label)		Acceptable measurement (mm) 65 - 103 12 - 16.2						
					1D Barcodes • Code 128	2D Barcodes • Data matrix ECC 200	Power supply	
					• Code 39	Aztec code	Line voltage	100-240 VAC +/- 10%
• Codabar		Line frequency	50/60Hz +/- 10%					
Interleaved 2 of 5EAN-8EAN-13		Maximum power consumption	1600 VA					
• Code 93		Environmental requirement	s (Operating)					
		Ambient room temperature	15°C to 32°C					
	Relative humidity	20% to 80% (no condensation)						
		Altitude	up to 2000 m					
		Pollution degree	2					

Dimensions & weight

Power supply	
Instrument dimensions	134 x 175 x 79 cm (W x H x D)
Instrument weight	623 kg

X800 Data Manager

- Functions as a central server when interconnecting and operating multiple Systems
- System connectivity: up to 3 analytic systems managed by a single x800 Data Manager
- LIS Connectivity: uni- and bi-directional communication using HL7 standard protocol

Contamination prevention

- Controlled air flow in the deck area
- Pipette tips with filter technology
- Dedicated pipette tips for each sample transfer and for transfer of extracted nucleic acid
- Stainless steel 2-fold needle transfers assay-specific reagents and other bulk reagents required for sample preparation and amplification; washed after each use
- Controls (RMCs) are transferred using pipette tips
- Automatic heat sealing of **cobas omni** Amplification Plate

COBAS, COBAS P and COBAS OMNI are trademarks of Roche.
All other trademarks are the property of their respective owners.

© 2023 Roche Molecular Systems, Inc.

Published by:

Roche Molecular Systems 4300 Hacienda Drive Pleasanton, CA 94588 USA

diagnostics.roche.com

MC--08021

More info on diagnostics.roche.com

Signature Page for MC--08021 v4.0

Legal Approval	Emily Wilson (emily.wilson@roche-diagnostics.com) on behalf of Debra Robinson Legal 13-Mar-2023 19:19:07 GMT+0000
Other Approval	Astrid Merida Business 14-Mar-2023 12:32:18 GMT+0000
Regulatory Approval	Deanna Koon Regulatory 16-Mar-2023 03:11:04 GMT+0000

Signature Page for MC--08021 v4.0