



Actual product photo

cobas[®] pulse system

Next level glucose management. And more.

General information

Intended Use (CE IVDR)

The **cobas[®] pulse** is an in vitro diagnostic instrument intended for the quantitative determination of glucose in whole blood using the **cobas[®] GLU** test strips. The **cobas[®] pulse** is intended for near-patient testing. Not for self-testing.

The **cobas[®] GLU** test strips provide an in vitro diagnostic test that quantitatively measures glucose in venous whole blood,

arterial whole blood, capillary whole blood, neonatal heel stick, and neonatal arterial whole blood samples on the **cobas[®] pulse**.

The **cobas[®] GLU** test strips are intended for near-patient testing in non-critical and critical professional healthcare environments such as general wards, outpatient clinics, intensive care units, and emergency departments and are indicated for use in determining dysglycemia. Not for self-testing.¹

Instrument

Hardware

Display

Model	Color touch, capacitive ²
Dimensions	4 in ³
Definition	480 x 800 pixel ²

Camera

Properties	5 MP including flashlight ²
Barcode Scanner	1D-2D ²

Connectivity

Wifi (WLAN)	Available 2.4, 5 Ghz (certified 802.11 a/b/g/n/ac (single stream n)) ²
Bluetooth	Available ²
RFID/NFC	Available ²
Ethernet	Not available (Access point offered) ²

Power

Battery Type	3.6 V rechargeable (lithium technology), with 3,000 mAh capacity ²
Battery Life	12 h shift, 1 h charging ³
Battery Mode	Charging unit, wireless charging ²

Maintenance

Cleaning	Pre-moistened disinf. cloths / spray ²
Disinfecting	Pre-moistened disinf. cloths / spray ²

Dimension

H x W x L	30 x 77 x 210 mm ²
Weight	390 g (including battery) ²

Software

OS		Other Features	
Operating System	Android ³	Third-Party Applications*	Available ²
<i>Memory</i>		Other Test Entry	Available ²
Memory Space	Flash 32 GB, RAM 4 GB ³	Observed Test Sequence	Available ²
Patient Results	2,000 ²	<i>Results Annotation</i>	
QC Results	500 ²	Results Marking	Available ²
Linearity Results	50 ²	Results Commenting	Available ²
Patient IDs	15,000 ²	QC Flagging	Available ²
Operators	15,000 ²	<i>Security</i>	
		Lockout	Available: QC and download ²
		Password Protection	Available, operator ²

Reagent

Performance

Technical Data

Sample Type	Arterial, capillary, neonatal, venous ¹
Sample Size	0.6 µl ¹
Measurement Time	<10 s ³
Measurement Range	10-600 mg/dL; 0.6-33.3 mmol/L ¹
Coding	Yes ²
Precision / Accuracy	r=0.989 for heel stick; r=0.994 for venous; and r=0.992 arterial; r=0.996 for capillary ³
Interference	No interference ¹
Calibration Method	Calibration occurs with every Test Strip Lot; the Test Strip Lot information is uploaded to the instrument. Measurements on the Test Strip Lot are calibrated to this information. The Test Strip Lot is identified via the Strip-ID on each Test Strip without user interaction and mix-up possibility ¹
Temperature Range	12-40°C / 54-104°F ¹
Hematocrit Range	5-70% ¹
Operating Relative Humidity Range	10-90% RH (no condensation) ¹
Maximum Altitude	4,300 m / 14,107 ft ¹

Handling

Storage

Test Strip Storage Temperature	2-30°C / 36-86°F ¹
Test Strip Shelf Life	24 months ^{1,3}
After opening, must use vial by	Until expiry date ^{1,3}

Packaging

Primary Packaging	Flip-top vial
Secondary Packaging	2 vials ¹
Number of Strips / Order Unit	100 (2 x 50) ¹

Dosing

Dosing Area	End and lateral fill ²
Under Dosing Detection	Available ²
Auto Control Solution Identification	Available ²
Sample Size Confirmation	Available ²

Technology

Specification

Enzyme	FAD-GDH ¹
Test Principle	Amperometric detection ¹
Strip Technology	Electro-chemical ¹
Reference Method	Hexokinase ¹
Integrity Check	Available ¹

QC

QC	
Control Solutions	Aqueous, 2 Levels ²
Linearity Kit	
Linearity Kit	Aqueous, 6 Levels ²

IT

DMS and IT

DMS	
Application	navify [®] POC Operations, third-party DMS ² Available ²
Setup Tool	Web-based, barcode ²
Protocol	
Communication	POCT1-A ²
navify [®] Integrator	
POC module for navify [®] Integrator	Available ²

References:

1 Roche cobas[®] GLU test strips Method Sheet V 3.0, 2023.

2 Roche cobas[®] pulse software version 02.00 User Assistance V 2.0, 2022.

3 Roche data on file.

* The use of any third-party app is subject to a separate license agreement with the respective third-party app developer. Roche gives no warranties (express or implied) with regard to any third-party app. Third-party apps might not be available in your country

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