

# cobas b 101

Quick Reference Guide 2.1 0 8171955018 (02) 2021-12 EN





# **Publication information**

Publication version	Software version	Revision date	Change description
2.0	2.0	March 2018	New layout and structure. New <b>cobas</b> CRP Test.
2.1	2.0	December 2021	cobas brand

Edition notice This publication is intended for operators of

cobas b 101 instrument.

Every effort has been made to ensure that all the information is correct at the time of publishing. However, Roche Diagnostics International Ltd. reserves the right to change this publication as necessary and without notice as part of ongoing product development.

Keep this publication in a safe place to ensure that it is not damaged. This document should always be easily accessible.

Related publications

Use this publication together with the **cobas b** 101 instrument Operator's Manual.

Disclaimer

Some products shown in the Quick Reference Guide may

not be available in all countries.

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#### Symbols used in the publication

Symbol	Explanation
•	List item
-∳-	Tip. Extra information on correct use or useful hints

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# Important safety information

#### **WARNING**

#### **Protection against infection**

Follow your institution's infection control procedures for handling blood specimens.

There is a potential risk of infection.

- ▶ Healthcare professionals using the **cobas b** 101 instrument must be aware that any object coming into contact with human blood is a potential source of infection.
- ► Healthcare professionals must also be aware that any cross-contamination is a potential source of infection for patients.

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#### **CAUTION**

This quick reference guide is not intended as an alternative to reading the operator's manual

► Please read the **cobas b** 101 instrument Operator's Manual carefully before using the instrument for the first time.

# **General information**

The **cobas b** 101 instrument is intended for professional use in a clinical laboratory setting or at the point of care. The instrument can be configured according to your institution's needs, and features such as requiring an operator ID may or may not be used.

For all questions about **cobas b** 101 instrument that are not answered in the quick reference guide, operator's manual or package inserts, contact your Roche representative.

If so configured, the **cobas b** 101 instrument prevents patient testing when controls have failed (QC lockout).

QC lockout occurs when:

- Patient testing is attempted and controls have not been run in the time interval or frequency designated by your institution.
- Controls have been run but the control values were outside the allowed range.

Error messages are displayed to alert you to a condition that needs attention. Take the action suggested on the screen, select  $\checkmark$ , and proceed with testing.

To find your Roche contact details

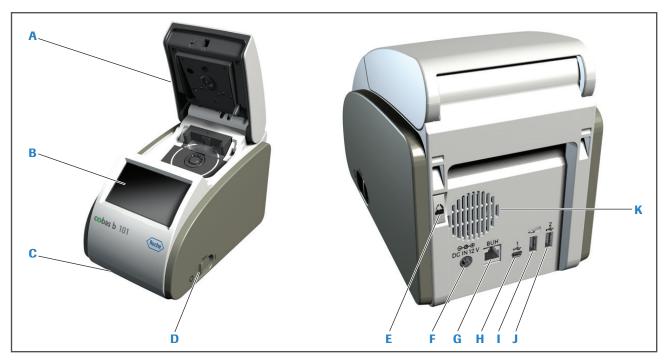
- 1. Visit our website at www.roche.com.
- 2. Choose your country to find the appropriate local office contact information.

#### **Materials**

You need the following materials to perform patient and control tests:

- cobas b 101 instrument
- cobas HbA1c Test
- cobas Lipid Panel
- cobas CRP Test
- cobas HbA1c Control
- cobas Lipid Control
- cobas CRP Control
- cobas HbA1c QC Info Disc, cobas Lipid QC Info Disc and cobas CRP QC Info Disc (included in the respective control kit)

# cobas b 101 instrument overview



- A Lid
- B Touch screen
- C Front ventilation
- Power on/off switch
- E Lid button
- F DC IN 12 V terminal
- G BUH terminal
- H USB 1 terminal

- Barcode scanner terminal
- J USB 2 terminal. Connection to a USB memory stick or a printer.
- K Back ventilation

**Lid** Choose the **Open** button on the screen e.g. to insert a test disc for measurement. Keep this lid closed during

measurement.

**Touchscreen** Shows buttons, icons, information, and test results. To

use a function, tap the button on the screen lightly.

**Lid button** Use this button to open the lid when the instrument is

switched off.

**DC IN 12 V terminal** Connect the power cable to the power adapter to supply

12 V DC power to the instrument.

**USB 1 terminal** Connection to a personal computer.

**BUH terminal** Connection to a network through a Base Unit Hub.



- A Temperature sensor
- **B** Upper heater

- C Barcode sensor
- D Turntable
- **E** Lower heater

# cobas b 101 instrument - disc overview



Imprinted side of the HbA1c disc. (The hinge cover in red.)



Imprinted side of the Lipid disc. (The hinge cover in yellow.)



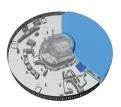
Imprinted side of the CRP disc. (The hinge cover in blue.)



Back side of the HbA1c disc.



Back side of the Lipid disc.



Back side of the CRP disc.



The suction point of the HbA1c disc. The suction point of the Lipid disc.





The suction point of the CRP disc.



HbA1c QC Info disc.

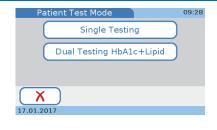


Lipid QC Info disc.



CRP QC Info disc.







1 Power on the instrument.

Choose Patient Test and then choose Single Testing.

**3** Open the disc pouch and remove the HbA1c disc.



4 Open the hinge cover completely.

When handling a disc make sure to hold it by its hinge cover and side only, do not touch the transparent surfaces.



Ask your patient to wash his or her hands with soap to remove fatty substances. Rinse the fingers extensively to remove all traces of soap. Dry the hands.

"\rightarrow" Warm water helps to stimulate the blood flow. Hand cream and soap might contain substances such as glycerides, glycerol and ethylene glycol.



6 Clean the side of the middle or ring finger with an alcohol swab and dry with sterile gauze.



7 Lance the side of the fingertip. Wipe away the first drop of blood.

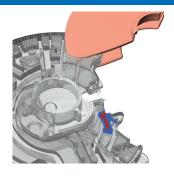


With the imprinted side facing up, position the disc's suction point above the drop of blood.

Make sure you apply blood to the suction point only to prevent contamination of the disc.



**9** Apply blood and observe that it has filled the marked area.



**10** Check the sample volume: the area marked in blue has to be completely filled with blood.



**11** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



**12** To open the lid, choose **Open** on the screen.



13 Insert the disc in the instrument.

Make sure to have the imprinted side up and not to touch the transparent surfaces.



14 Close the lid.The measurement starts automatically and takes about 5 minutes.

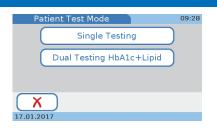


15 If the alarm is enabled, you will hear a beep. To finish the test, choose ✓ on the screen and dispose of the disc appropriately. 12

#### Step



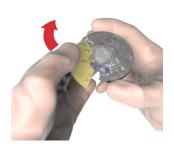
1 Power on the instrument.



Choose Patient Test and then choose Single Testing.



**3** Open the disc pouch and remove the Lipid disc.



4 Open the hinge cover completely.

- V- When handling a disc make sure to hold it by its hinge cover and side only, do not touch the transparent surfaces.



Ask your patient to wash his or her hands with soap to remove fatty substances. Rinse the fingers extensively to remove all traces of soap. Dry the hands.

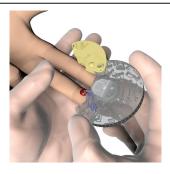
"Q" Warm water helps to stimulate the blood flow. Hand cream and soap might contain substances such as glycerides, glycerol and ethylene glycol, which can result in false high triglyceride results.



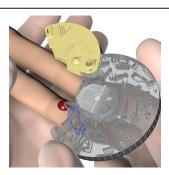
Clean the side of the middle or ring finger with an alcohol swab and dry with sterile gauze.



7 Lance the side of the fingertip. Wipe away the first drop of blood.



With the imprinted side facing up, position the disc's suction point above the drop of blood.
Make sure you apply blood to the suction point only to prevent contamination of the disc.



Apply blood and observe that it has filled the marked area.



**10** Check the sample volume: the area marked in blue has to be completely filled with blood.



**11** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



**12** To open the lid, choose **Open** on the screen.



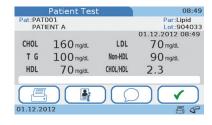
13 Insert the disc in the instrument.

Make sure to have the imprinted side up and not to touch the transparent surfaces.



14 Close the lid.

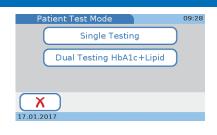
The measurement starts
automatically and takes about
6 minutes.



**15** If the alarm is enabled, you will hear a beep. To finish the test, choose ✓ on the screen and dispose of the disc appropriately.



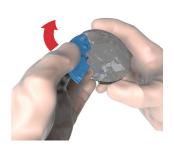
1 Power on the instrument.



Choose Patient Test and then choose Single Testing.



**3** Open the disc pouch and remove the CRP disc.



4 Open the hinge cover completely.

"\vec{Q}" When handling a disc make sure to hold it by its hinge cover and side only, do not touch the transparent surfaces.



Ask the patient to wash his or her hands with soap to remove fatty substances. Rinse the fingers extensively to remove all traces of soap. Dry the hands.

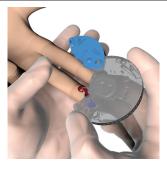
"Q' Warm water helps to stimulate the blood flow. Hand cream and soap might contain substances such as glycerides, glycerol and ethylene glycol.



6 Clean the side of the middle or ring finger with an alcohol swab and dry with sterile gauze.

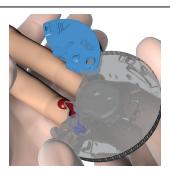


7 Lance the side of the fingertip. Wipe away the first drop of blood.



With the imprinted side facing up, position the disc's suction point above the drop of blood.

Make sure you apply blood to the suction point only to prevent contamination of the disc.



**9** Apply blood and observe that it has filled the marked area.



**10** Check the sample volume: the area marked in blue has to be completely filled with blood.



**11** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



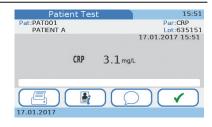
**12** To open the lid, choose **Open** on the screen.



**13** Insert the disc in the instrument. Make sure to have the imprinted side up and not to touch the transparent surfaces.

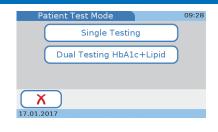


14 Close the lid.The measurement starts automatically and takes about 4 minutes.



15 If the alarm is activated, you will hear a beep. To finish test, choose ✓ on the screen and dispose of disc appropriately.







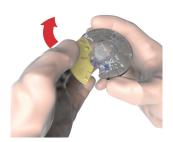
1 Power on the instrument.

Choose Patient Test and then choose Dual Testing HbA1c+Lipid.

Read the on-screen instructions carefully and choose ✓ to confirm.



4 Open the disc pouch and remove the Lipid disc.



**5** Open the hinge cover completely.



Ask your patient to wash his or her hands with soap to remove fatty substances. Rinse the fingers extensively to remove all traces of soap. Dry the hands.

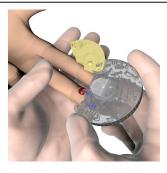
Warm water helps to stimulate the blood flow. Hand cream and soap might contain substances such as glycerides, glycerol and ethylene glycol, which can result in false high triglyceride results.



7 Clean the side of the middle or ring finger with an alcohol swab and dry with sterile gauze.

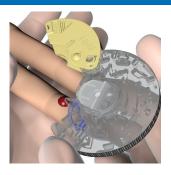


Lance the side of the fingertip. Wipe away the first drop of blood.



With the imprinted side facing up, position the disc's suction point above the drop of blood.

Make sure you apply blood to the suction point only to prevent contamination of the disc.



**10** Apply blood and observe that it has filled the marked area.



**11** Check the sample volume: the area marked in blue has to be completely filled with blood.



**12** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



13 Put Lipid disc aside. Do not place the disc in front of the instrument (ventilation with warm air). Place it at the side of the instrument.



**14** Open the disc pouch and remove the HbA1c disc.

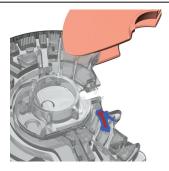


15 Open the hinge cover completely.



16 Apply blood directly to the disc from previously lanced finger, make sure the blood has filled the marked area.

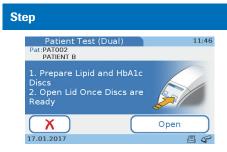
Make sure you apply blood to the suction point only to prevent contamination of the disc.

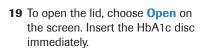


17 Check the sample volume: the area marked in blue has to be completely filled with blood.



**18** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.







20 Close the lid.

The measurement starts
automatically and takes about 5
minutes.



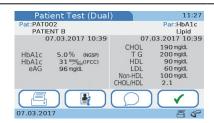
21 Wait for message 'HbA1c Test completed'.Open the lid.Remove the HbA1c disc.



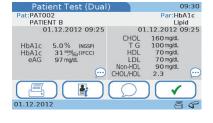
22 Immediately insert the Lipid disc that you prepared earlier. Close the lid. The measurement starts

automatically and takes about 6 minutes.

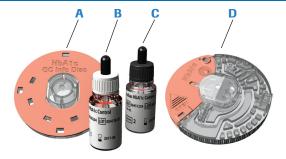
If the alarm is activated, you will hear a beep.



**23** HbA1c and Lipid test results are displayed.



24 To finish the test, choose ✓ on the screen and dispose of discs appropriately.



- 1 Material needed:
  - A) 1 HbA1c QC Info disc
  - B) 1 QC solution level 1
  - C) 1 QC solution level 2
  - D) 2 HbA1c discs



**2** Power on the instrument.







- 3 Choose Control Test and then choose QC Test.
- For a new QC lot, choose New QC Lot.
  - To select a previously tested QC lot, choose a lot button.
- **5** For a new QC lot:, take the HbA1c QC Info disc from the QC solution kit.





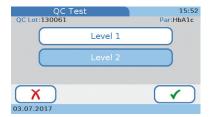
Place the QC Info disc on the turntable within the white circle.



8 Close the lid.

**6** To open the lid, choose **Open** on the screen, then follow the on screen instructions.







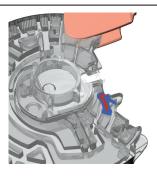
- 9 The target values and target ranges for level 1 and 2 are displayed. To validate the values, choose ✓. The QC information is saved on the instrument.
- 10 Choose the level of QC test (Level 1 or Level 2).
- **11** Open the disc pouch and remove the HbA1c disc.



**12** Turn the disc on its back and open it completely.



13 Carefully apply a drop of QC solution to the suction point. Make sure it is of the level that you have just chosen.



14 Check sample volume: the area marked in blue has to be completely filled with QC solution.



15 Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



16 Open the lid.

Remove the HbA1c QC Info disc.
Insert the HbA1c disc.
Close the lid.



17 Verify that the QC solution lot number matches the lot number displayed on the screen.
 To begin the measurement, choose .



- 18 When measurement is complete, select ✓ to proceed with the QC test of the other level.
- **19** Open the disc pouch and remove the HbA1c disc.
- **20** To open lid, choose **Open** on the screen.

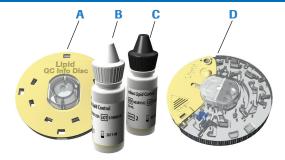
Remove the first HbA1c disc, insert the second HbA1c disc, and close lid







- 21 Verify that the QC solution lot number matches the lot number displayed on the screen.To begin the measurement, choose ✓.
- **22** When measurement is complete the results of both levels (1+2) are displayed.
- 23 To finish the test, choose ✓ on the screen and dispose of the discs appropriately.

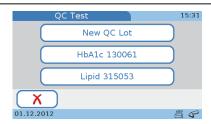


- 1 Material needed:
  - A) 1 Lipid QC Info disc
  - B) 1 QC solution level 1
  - C) 1 QC solution level 2
  - D) 2 Lipid discs



**2** Power on the instrument.







- 3 Choose Control Test and then select QC Test.
- For a new QC lot, choose New QC Lot.
  - To select a previously tested QC lot, choose a lot button.
- **5** For a new QC lot:, take the Lipid QC Info disc from the QC solution kit.





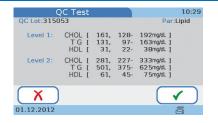
Place the QC Info disc on the turntable within the white circle.

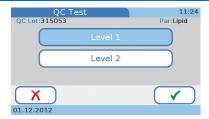


8 Close the lid.

the screen, then follow the on-screen instructions.

To open the lid, choose Open on







- 9 The target values and target ranges for level 1 and 2 are displayed. To validate the values, choose ✓. The QC information is saved on the instrument.
- 10 Choose the level of the QC test (Level 1 or Level 2).
- **11** Open the disc pouch and remove the Lipid disc.



**12** Turn the disc on its back and open it completely.



13 Carefully apply a drop of QC solution to the suction point. Make sure it is of the level that you have just chosen.



**14** Check the sample volume: the area marked in blue has to be completely filled with QC solution.



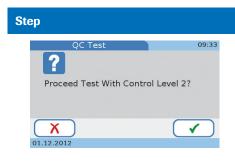
**15** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



16 Open the lid. Remove the Lipid QC Info disc. Insert the Lipid disc. Close the lid.



17 Verify that the QC solution lot number matches the lot number displayed on the screen.
To begin the measurement, choose .



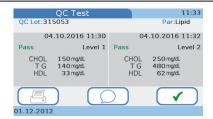




- 18 When the measurement is complete, choose ✓ to proceed with the QC test of the other level.
- **19** Open the disc pouch and remove the Lipid disc.
- 20 To open the lid, choose Open on the screen. Remove the first Lipid disc.

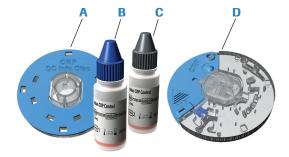
Insert the second Lipid disc. Close the lid.







- 21 Verify that the QC solution lot number matches the lot number displayed on the screen.To begin the measurement, choose ✓.
- **22** When the measurement is complete, the results of both levels (1+2) are displayed.
- 23 To finish test, choose ✓ on the screen and dispose of discs appropriately.

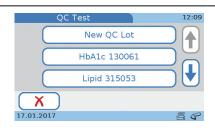


- 1 Material needed:
  - A) 1 CRP QC Info disc
  - B) 1 QC solution level 1
  - C) 1 QC solution level 2
  - D) 2 CRP discs



**2** Power on the instrument.





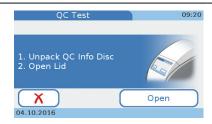




- 3 Choose Control Test and then choose QC Test.
- For a new QC lot, choose New QC

To select a previously tested QC lot, choose a lot button.

5 For a new QC lot, take the CRP QC Info disc from the QC solution kit.







8 Close the lid.

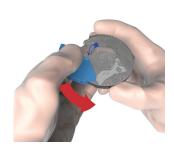
- 6 To open the lid, choose Open on the screen, then follow the on screen instructions.
- Place the QC Info disc on the turntable within the white circle.



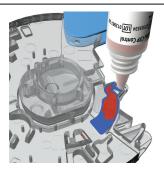




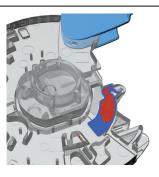
- 9 The target values and target ranges for level 1 and 2 are displayed. To validate the values, choose ... The QC information is saved on the instrument.
- 10 Choose the level of QC test (Level 1 or Level 2).
- **11** Open the disc pouch and remove the CRP disc.



**12** Turn the disc on its back and open it completely.



13 Carefully apply a drop of QC solution to the suction point. Make sure it is of the level that you have just chosen.



**14** Check sample volume: the area marked in blue has to be completely filled with QC solution.



**15** Close the hinge cover firmly. Once closed correctly, the hinge cover cannot be opened again.



16 Open the lid. Remove the CRP QC Info disc. Insert the CRP disc. Close the lid.



17 Verify that the QC solution lot number matches the lot number displayed on the screen.To begin the measurement, choose ✓.



- 18 When measurement is complete, select ✓ to proceed with the QC test of the other level.
- **19** Open the disc pouch and remove the CRP disc.
- **20** To open lid, choose **Open** on the screen.

Remove the first CRP disc, insert the second CRP disc, and close the lid







- 21 Verify that the QC solution lot number matches the lot number displayed on the screen.To begin the measurement, choose ✓.
- **22** When measurement is complete the results of both levels (1+2) are displayed.
- **23** To finish the test, choose ✓ on the screen and dispose of discs appropriately.



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