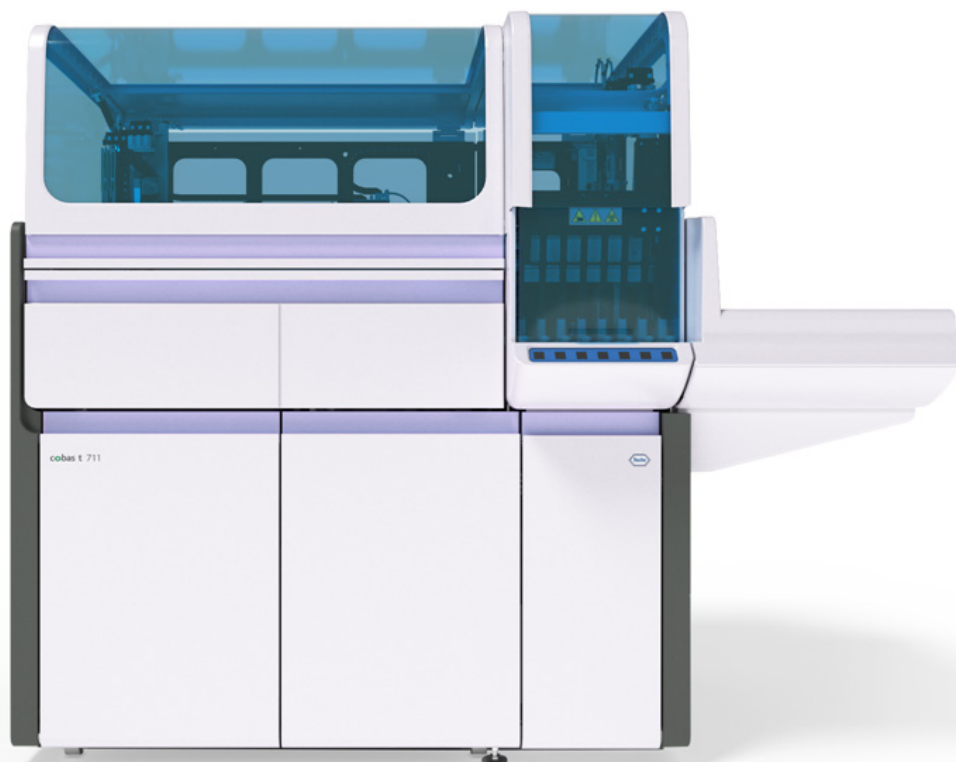


cobas[®] t 711 coagulation analyzer


Quick Reference Guide version 6.0
Software version 2.3



Publication information

Publication version	Software version	Revision date	Change description
1.0	1.0	March 2017	<ul style="list-style-type: none"> Initial version
1.1	1.0	July 2017	<ul style="list-style-type: none"> Updated safety messages
2.0	2.0	August 2018	<ul style="list-style-type: none"> Revised for software 2.0 Update safety labels on the sample area and on the fluid tray
2.1	2.0.2	March 2019	<ul style="list-style-type: none"> Update for maintenance action "Cleaning probe assembly" Update for cobas® t development channel cassette handling
3.0	2.1	August 2019	<ul style="list-style-type: none"> New work area implemented - Sample and results New QC initial run type settings New illustration concept

 Revision history

Publication version	Software version	Revision date	Change description
4.0	2.1.1	September 2020	<ul style="list-style-type: none"> • IVDR Compliance to the Regulation (EU) 2017/746 • Backup system procedure • New safety messages • Handling tubes • Maintenance videos
5.0	2.2	August 2021	<ul style="list-style-type: none"> • Data alarm detail information • New data alarm • New data upload options • New backup options • Update E-library workflows • Update e-barcode handling • Update for LIS security • Encryption at rest - the usage of an encrypted external storage device is recommended. • Specifications for cobas® t 711 connection module implemented • Specifications for open tube handling implemented • Cleaning the conductive 5-position rack • Update for cuvette transport troubleshooting
6.0	2.3	March 2023	<ul style="list-style-type: none"> • Update illustrations that showed wrong information • Update the cleaning of the conductive 5-position rack task • Update list of maintenance actions • New interactive help for replacing a syringe and syringe plunger • New import for a copied CSV file into MS Excel • Update rack release time for QC racks • Open orders cancellation • Syringe for reagent reconstitution • Workflow priority for automated reagent cassette reconstitution • Mandatory Roche special wash rule updates • About the HIL-dependent test result comment • Improved weekly maintenance workflow • QC measurements for calculated tests • QC initial run type • Second measurement unit definition • Correct data alarm information • Configurable data alarm for sample clot or probe blocked <p>For more details, see the section:</p> <ul style="list-style-type: none"> •  What is new in publication version 6.0 (19)

Revision history

Edition notice

This publication is intended for operators of the **cobas**® t 711 coagulation analyzer.

Every effort has been made to ensure that all the information contained in this publication is correct at the time of publishing. However, the manufacturer of this product may need to update the publication information as output of product surveillance activities, leading to a new version of this publication.

Where to find information

The **User Assistance** contains all information about the product, including the following:

- Routine operation
- Maintenance
- Safety
- Troubleshooting information
- Software reference
- Configuration information
- Background information

The **User Guide** focuses on routine operation and maintenance. The content is organized according to the normal operation workflow.

The **Safety Guide** contains important safety information. You must read the **Safety Guide** before operating the instrument.

The **Quick Reference Guide** focuses on routine operation. The **Quick Reference Guide** is organized according to the normal operation workflow. It provides information in a concentrated version. For more detailed information, refer to the **User Guide** or the **User Assistance**.

Privacy notice

When you use User Assistance online, viewing events (topics viewed and searches performed) and IP addresses are logged.

The data collected is for Roche internal use only and is never forwarded to third parties. It is anonymized, and after one year it is automatically deleted.

Viewing events are analyzed to improve User Assistance content and search functionality. IP addresses are used to classify regional behavior.

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Electronic user documentation can be downloaded using the eLabDoc e-service on the Roche navify Portal:

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Table of contents

Preface	7
Intended use	7
Intended use for IVD accessories	7
Symbols and abbreviations	8
Overview of the main workflow	9
Quick reference: Managing supplies and waste	11
Quick reference: Reagents	13
Quick reference: Calibration	14
Quick reference: QC	17
Quick reference: Test orders and rack handling	19
Quick reference: Handling results	20

Preface

Use this publication together with the **cobas**® t 711 coagulation analyzer User Guide or User Assistance.

Operation and maintenance actions are described in the User Guide and User Assistance.

Intended use

The **cobas**® t 711 coagulation analyzer is a fully automated, discrete coagulation analyzer intended for the *in vitro* qualitative and quantitative determination of coagulation analytes in human citrated plasma, the results of which aid in the diagnosis of coagulation abnormalities and in monitoring anticoagulant therapy.

The **cobas**® t 711 coagulation analyzer is a standalone instrument and can also be connected to laboratory automation systems.

Intended use for IVD accessories

The Intended use of accessories might be not always limited to the **cobas**® t 711 coagulation analyzer.

Insert Sarstedt 8 mm Tube

Rack insert to handle small volume sample tubes on the **cobas**® t 711 coagulation analyzer.

Symbols and abbreviations

Product names

Except where the context clearly indicates otherwise, the following product names and abbreviations are used:

Product name	Descriptor
System software for cobas ® t 711 coagulation analyzer	software
cobas ® t 711 coagulation analyzer	analyzer
System Cleaner cobas	System Cleaner
HIL Test	HIL test

☒ Product names

Abbreviations

The following abbreviations are used.

Abbreviation	Definition
ANSI	American National Standards Institute
CFR	Code of Federal Regulations
CISPR	<i>Comité International Spécial des Perturbations Radioélectriques</i> (International Special Committee on Radio Interference)
FCC	Federal Communications Commission
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
IVD	<i>In vitro</i> diagnostic
IVDR	<i>In vitro</i> diagnostics regulation
SOP	Standard Operating Procedure

☒ Abbreviations

Overview of the main workflow

The main workflow includes procedures for managing and loading supplies and samples, and for handling results.



The order of the main workflow can be adapted based on specific workflow needs.

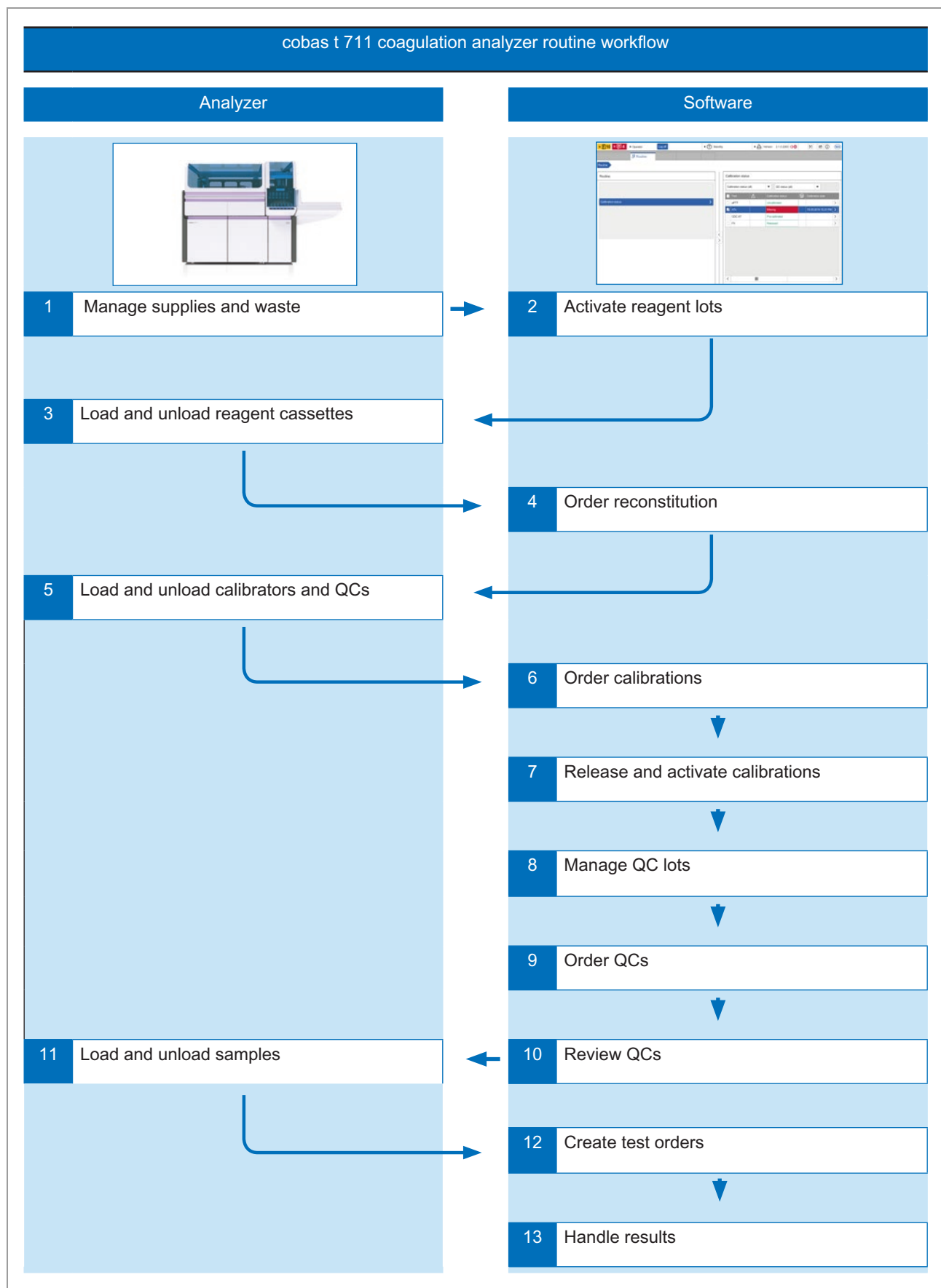
Be sure to follow laboratory best practices and change your lab gloves following any handling of liquid or solid waste.


WARNING

Delayed results

Limited computational resources may lead to delayed results.

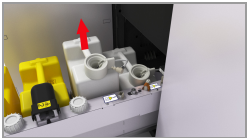

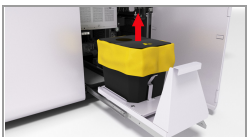
- ▶ Ensure that archives are performed regularly and obsolete results are purged.
- ▶ Delete obsolete data, for example, problem reports, pdf-files, and screenshots.



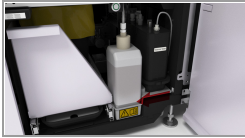


 **cobas® t 711** routine workflow

Quick reference: Managing supplies and waste

Regularly perform supplies and waste management tasks to ensure continuous operation.



Steps	User action
1 Check supplies and waste on the system	<ol style="list-style-type: none"> 1. Choose Routine > Other resources. 2. On the Other resources panel, ensure that the Water tab, Liquid waste tab, Cleaner tab, and Cuvette tab display OK status. 3. To check the status of specific supplies or waste, choose the corresponding tab.
2 Fill water 	<ol style="list-style-type: none"> 1. Open the fluids door and pull out the water/liquid waste drawer. 2. Disconnect the water container elbow connector and remove the tubing adapter. 3. Remove the water container and rinse it out with deionized water. 4. Fill the water container with deionized water. 5. Place the water container in the water/liquid waste drawer, reattach the tubing adapter, and reconnect the water container elbow connector. Ensure that the water tubing is not stretched or kinked. 6. Close the water/liquid waste drawer and the fluids door.
3 Empty liquid waste 	<ol style="list-style-type: none"> 1. Open the fluids door and pull out the water/liquid waste drawer. 2. Open the waste dispense cap and attach the waste container cap. 3. Lift out the liquid waste container and dispose of the liquid waste according to appropriate local regulations (apply disinfectant to the outside of the liquid waste container before removing it). 4. Pour disinfectant into the liquid waste container (according to local requirements and the specifications of the manufacturer). 5. Place the liquid waste container in the water/liquid waste drawer, remove the liquid waste cap, and close the waste dispense cap. 6. Close the water/liquid waste drawer and the fluids door.
4 Empty solid waste 	<ol style="list-style-type: none"> 1. Open the solid waste door and pull out the solid waste drawer. 2. Pull the pull strings at the top of the solid waste bag and lift it out of the solid waste container. 3. Tie the pull strings together and dispose of the solid waste bag according to appropriate local regulations. 4. Insert the replacement bag into the solid waste container. 5. Insert the cover at the top of the solid waste container. 6. Close the solid waste drawer. 7. Pull out the waste tray and dispose of any solid waste. Clean and then reinsert the waste tray. 8. Press the cuvette counter reset button. 9. Close the solid waste door.

 Quick reference: Managing supplies and waste

Steps	User action	
5 Replace System Cleaner bottle		<div><div> Ensure that the system is in Standby status, Paused status, or Warning status before performing this action.</div><div><div><div>1. Open the solid waste door.</div><div>2. Remove the System Cleaner bottle tubing from the tubing slot.</div><div>3. Lift the System Cleaner bottle together with the System Cleaner bottle tubing adapter out of the System Cleaner bottle tray.</div><div>4. Lower the System Cleaner bottle away from the System Cleaner bottle tubing adapter and out of the instrument.</div><div>5. Insert the System Cleaner bottle tubing adapter into the replacement System Cleaner bottle.</div><div>6. Place the System Cleaner bottle and tubing adapter into the System Cleaner bottle tray.</div><div>7. Reinsert the System Cleaner bottle tubing into the tubing slot and close the solid waste door.</div></div></div></div>
6 Load cuvettes		<div><div><div>1. Open the front panel.</div><div>2. Remove the cuvette drawer and turn it upside down.</div><div>3. Fill the cuvette drawer with cuvettes.</div><div>4. Insert the cuvette drawer and remove the cuvette drawer panel from the bottom.</div><div>5. Insert the cuvette drawer panel at the top of the cuvette drawer.</div><div>6. Close the front panel.</div></div></div>









 Quick reference: Managing supplies and waste

Quick reference: Reagents









Steps	User action
1 Activate reagents	<ol style="list-style-type: none"> To activate a reagent lot, do the following: <ul style="list-style-type: none"> Choose Administration > Reagent lot activation. Next to the reagent to be activated, choose the  button. On the Activate lot: {0} panel, select the reagent lot to be activated, choose the Activate button, and confirm.
2 Load and unload reagent cassettes on the analyzer	 <ol style="list-style-type: none"> Open the front panel. When the status indicator is off, open the reagent cassette drawer. Load reagent cassettes into the loading positions on the left-hand side of the reagent cassette drawer. Remove any reagent cassettes from the unloading positions on the right-hand side of the reagent cassette drawer. Close the reagent cassette drawer. Close the front panel.
3 Order/cancel a reconstitution	<p>You can order a reconstitution from either the Reagent details panel or from the Reconstitution orders panel:</p> <ol style="list-style-type: none"> Choose Routine > Reagent status > Reagent overview. Select the reagent to be reconstituted. On the Reagent details panel, select the check box next to the reagent bottle position. At the bottom of the panel, choose the Reconstitute button. <p>From the Reconstitution orders panel:</p> <ol style="list-style-type: none"> Choose Routine > Reagent status > Reconstitution orders. On the Reconstitution orders panel, select the reagent cassette to be reconstituted and enter the number of tests to be performed. To order a reconstitution immediately, at the bottom of the panel, choose the Now option, and then choose the Order button. <p>To cancel a reconstitution order, on the Reconstitution orders panel, select the pending order to be canceled and choose the Cancel order button.</p>
4 Define reagent lower limit volumes for reconstitution	<p>You can configure the trigger volume for reconstitution or for the Missing reagent task.</p> <ol style="list-style-type: none"> Choose Routine > Reagent status > Reagent overview. At the bottom-right of the Reagent overview panel, choose the Edit lower limits button. Enter the Tests = field or mL field to define the volumes and choose the Save button.
5 Mask/unmask or discard a reagent	<ol style="list-style-type: none"> Choose Routine > Reagent status > Reagent details. To mask a reagent, select the reagent bottle positions and choose the Mask button. To unmask a reagent, select the masked reagent bottle positions and choose the Unmask button. To discard a reagent cassette or reagent bottle, select the reagent cassette or reagent bottles and choose the Discard button (cannot be reversed).

 Quick reference: Reagents



Quick reference: Calibration

Steps		User action
1	Load calibrators	 <ol style="list-style-type: none"> Place the tubes containing the calibrator into the appropriate racks. Insert the rack into a rack slot at the right-hand side of the analyzer. Wait while the analyzer loads the rack and reads the barcode. To view the racks which have been loaded onto the system, choose Routine > Racks. To unload a calibrator rack, select the check box next to the rack and choose the Unload button.
2	Order calibration	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test requiring a calibration and choose the Order calibration button.
3	Cancel calibration	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test and choose the  button. On the List of calibrations panel, select the calibration order to be canceled and choose the Cancel calibration button.
4	Delete calibration	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test and choose the  button. On the List of calibrations panel, select the calibration and choose the Delete button.
5	Review and release a calibration	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test and choose the  button. On the List of calibrations panel, select the calibration and choose the  button. At the bottom of the Calibration curve tab, choose the Release button.
6	Undo a calibration release	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test and choose the  button. On the List of calibrations panel, choose either the Calibration view tab or the Cassette view tab. Select the calibration or cassette and choose the  button. On the Calibration details {0} {1} panel, beneath the Calibration curve tab, choose the Undo release button.
7	Perform update calibration	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test and choose the  button. On the Cassette view tab or the Calibration view tab of the List of calibrations panel, choose the cassette or reagent lot to be calibrated and choose the Update calibration button.

☰ Quick reference: Calibrations


Steps	User action
8 Perform cassette calibration	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status. 2. On the Calibration status panel, select the test and choose the  button. 3. On the Cassette view tab of the List of calibrations panel, choose the LCTL exceeded cassette and choose the Full calibration button, or if available, choose the Update calibration button. 4. On the Lot calibration time limit exceeded callout, choose the Cassette calibration button. 5. A new line with the cassette calibration appears in the list. 6. To review the calibration, wait until the calibration result changes to Valid status. Then select the cassette and choose the  button. 7. On the Calibration details {0}{1} panel, control the calibration on the Calibration curve tab and the Calibration result details tab. If the calibration result appears to be usable, choose the Release button.
9 Reset a calibration to Released status	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status. 2. On the Calibration status panel, select the test and choose the  button. 3. On the List of calibrations panel, select the calibration which has expired. If the most recent QC indicates that the calibration is still usable, choose the  button. 4. On the Calibration details {0}{1} panel, beneath the Calibration curve tab, choose the Reset to released button. 5. Confirm the Reset to released callout.
10 Perform a repeat point for a calibration	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status. 2. On the Calibration status panel, select the test and choose the  button. 3. On the List of calibrations panel, select the calibration and choose the  button. 4. On the Calibration details {0}{1} panel, select the calibration point in question from the list. 5. On the Calibration curve tab and the Calibration result details tab, review the results of the calibration point. 6. Choose the Repeat point button.
11 Ignore a timeout	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status. 2. On the Calibration status panel, select the test and choose the  button. 3. On the List of calibrations panel, choose the Cassette view tab. Select the cassette with the exceeded timeout and choose the  button. 4. On the Calibration details {0}{1} panel, review the calibration. If you decide that the calibration can still be used, beneath the Calibration curve tab, choose the Ignore timeout button.
12 Review a calibrator	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status. 2. At the bottom of the Calibration status panel, choose the Review calibrators task button. 3. At the top of the Review calibrators panel, enter the filtering parameter.


 Quick reference: Calibrations


Steps	User action
13 Perform a standby calibration	<ol style="list-style-type: none"> 1. To control which reagent lots are loaded on the analyzer, choose Routine > Reagent status and then select the reagent from the list. 2. Choose Routine > Calibration status then select the reagent for which you want to perform a standby calibration and choose the  button. 3. Filter for results belonging to the specific reagent lot. 4. Select the check box next to the reagent lot to be calibrated. 5. At the bottom of the List of calibrations panel, choose the Full calibration button. 6. If the calibration is successful, a calibration result with Valid status is displayed. The calibration result can now be released. 7. To order a QC, select the check box next to a non-active calibration and choose the Order QC button. 8. If the QC is successful, the QC status changes to Valid status.
14 Release a standby calibration	<ol style="list-style-type: none"> 1. Choose Routine > Calibration status and then choose the test for the standby calibration to be released. 2. On the List of calibrations panel, select the calibration and choose the  button. 3. If the standby calibration has not yet been released, at the bottom of the Calibration curve tab, choose the Release button.

 Quick reference: Calibrations

Quick reference: QC

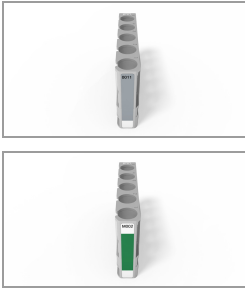

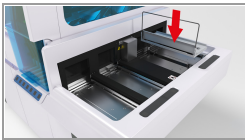

Steps		User action
1	Load QC materials	 <ol style="list-style-type: none"> Place the tubes containing the QC material into the appropriate racks. Insert the rack into a rack slot in the rack loading area at the right-hand side of the analyzer. Wait while the analyzer loads the rack and reads the barcode. To view the racks which have been loaded onto the system, choose Routine > Racks. To unload a QC rack, select the check box next to the rack and choose the Unload button.
2	Manage QC lots	<ol style="list-style-type: none"> Choose Routine > QC status > Manage QC lots. To activate a QC lot, at the bottom of the Manage QC lots panel, choose the Activate button. To set the QC lot to Study status, at the bottom of the Manage QC lots panel, choose the Set to study QC button. To deactivate a QC lot, at the bottom of the Manage QC lots panel, choose the Deactivate button.
3	Order routine QC	<ol style="list-style-type: none"> Choose Routine > QC status. On the QC status panel, select the check box next to the test requiring a QC (or the check box next to the QC material) and choose the Order QC button.
4	Order preparation QC	<ol style="list-style-type: none"> Choose Routine > Calibration status. On the Calibration status panel, select the test for which you want to perform a preparation QC and choose the > button. On the List of calibrations panel, either select an inactive calibration on the Calibration view tab or a loaded but not yet used reagent cassette on the Cassette view tab and choose the Order QC button.
5	Order study QC	<ol style="list-style-type: none"> Choose Routine > QC status. On the QC status panel, select the check box next to the QC material. At the bottom of the QC status panel, choose the Order study QC button.
6	Cancel QC order	<ol style="list-style-type: none"> Choose Routine > QC status. On the QC status panel, select the check box next to the QC material. To cancel a routine QC or preparation QC, at the bottom of the QC status panel, choose the Cancel QC button. To cancel a study QC, at the bottom of the QC status panel, choose the Cancel study QC button.
7	Review QC	<ol style="list-style-type: none"> Choose Routine > QC status. On the QC Status work area, select the check box next to the test and choose the > button. On the QC result detail panel, control the results and details. On the QC result detail panel, control the results and details to ensure that they are within expected limits. From the Levey-Jennings chart panel, you can perform the following actions: <ul style="list-style-type: none"> Exclude a result from the statistics. Send a QC result to the LIS Set QC level status of the QC material to Expired status.

Steps	User action
8 Set QC target ranges	<ol style="list-style-type: none">1. Choose Routine > QC status.2. On the QC status panel, select the check box next to the test and choose the  button.3. On the Levey-Jennings chart panel, select the QC material and choose the Set target range button.4. On the Set target range dialog box, select the range option and choose the Save button.

 Quick reference: QCs





Quick reference: Test orders and rack handling

To measure a sample, the sample must be loaded onto the analyzer and test orders for this sample are required.

Steps	User action
1 Order a test	<ol style="list-style-type: none"> 1. Choose the Samples and results tab. 2. On the Samples and results panel, select the check box next to the sample to be tested. 3. To change a routine sample to a STAT, on the Samples and results panel or Sample details '{0}' panel, choose the STAT button. 4. To order a test, at the bottom of the Samples and results panel, choose the Manual order button. 5. On the Manual order entry for sample '{0}' panel, choose the buttons of the available tests and choose the Order button.
2 Create a non-barcoded sample	<ol style="list-style-type: none"> 1. Choose Routine > Racks. 2. At the bottom of the Racks overview panel, choose the Create non-barcoded sample button. 3. On the Create non-barcoded sample panel, enter the Rack ID: field and the Sample ID: field at the positions where the non-barcoded samples are located. 4. Choose the Save button and confirm in the dialog box that the sample IDs are correctly positioned.
3 Load and unload sample racks	<div data-bbox="533 1151 778 1438">  </div> <ol style="list-style-type: none"> 1. Place the sample tubes into the sample racks. 2. Put the sample rack into one of the rack slots on the rack loading area. 3. To view the status of the sample racks, choose Routine > Racks. 4. To view the status of individual sample tubes on the rack, on the Racks panel, select the check box next to the sample rack and choose the  button. 5. To unload a sample rack, choose the Unload button on one of the following panels: <ul style="list-style-type: none"> • Racks overview • Rack details • Samples and results 6. To delete a sample rack, at the bottom of the Racks panel, choose the Delete button.
4 Load and unload rack trays	<div data-bbox="533 1599 778 1738">  </div> <ol style="list-style-type: none"> 1. Load empty rack trays into the output buffer positions of the sample balcony. 2. Place the sample tubes for testing into the sample racks and then load the sample racks onto the rack trays. 3. With the handle of the rack tray facing the front of the analyzer, place the rack tray with the sample racks onto the input buffer. 4. To unload a rack tray, wait for the analyzer to finish unloading sample racks onto the rack tray and lift the rack tray out of the output buffer. <div data-bbox="794 1926 1428 2002">  Status indicators signal if rack trays can be loaded or unloaded. </div>

Quick reference: Handling results

Use the result management tools to view results, validate, order repeat tests, and create reports.

Steps	User action
1 Handle results	<ol style="list-style-type: none"> To view sample results, choose the Samples and results tab. To view sample details, on the Samples and results panel, select the check box next to the sample and choose the  button. To view details of a specific test, on the Sample details '{0}' panel, select the check box next to the test and choose the  button. To validate the test results manually, on the Sample details '{0}' panel, select the check box next to the test and choose the Validate button. To order a repeat test, on the Sample details: panel, select the check box next to the test and choose the Repeat button. To send the result to the LIS, select the check box next to the test and choose the Send button. To delete the result, select the check box next to the test and choose the Delete button. To validate all the test results, choose the Validate all button. To create another test order, choose the Manual order button.
2 Create and print a report	<ol style="list-style-type: none"> To create a grid report, at the top of the panel, choose the  drop-down list. <ul style="list-style-type: none"> From the drop-down list, choose whether you want to print or export to a CSV file. To create a defined report, at the bottom of the panel (if applicable) choose the Print report button. <ul style="list-style-type: none"> Choose the print options and if you want to export to a PDF. To manage reports stored on the system, choose Administration > Screenshots and file management.
3 Print cumulative QC report	<ol style="list-style-type: none"> Choose Routine > QC status. At the top of the QC status panel, choose the  drop-down list and choose the Print cumulative QC report button. On the Select time callout, define the time period for the report and choose the Print button.

 Quick reference: Handling results