

Order information

Instrument Check

65 tests

Check Solution Sample

Cat. No. **04851013 190**Cat. No. **20757144 322**

System-ID 07 6933 9

Roche/Hitachi **cobas c** systems

cobas c 311	cobas c 501/502
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English

System information

For **cobas c** 311/501 analyzers:**CHKS:** ACN 473 (check of sample pipetting)**CHKR1:** ACN 474 (check of R1 pipetting)**CHKR2:** ACN 475 (check of R2 pipetting)For **cobas c** 502 analyzer:**CHKS:** ACN 8473 (check of sample pipetting)**CHKR1:** ACN 8474 (check of R1 pipetting)**CHKR2:** ACN 8475 (check of R2 pipetting)

Intended use

Test for accuracy and precision of sample and reagent pipetting with dye solution and saline solution on Roche/Hitachi **cobas c** systems.

Summary

Check Test Sample (CHKS):

Sample (diluted Check Solution Sample) and R3 (sodium chloride solution) are pipetted and absorbance is measured by the instrument.

Mean and CV of 21 determinations are calculated and compared to the specifications given below (accuracy and precision).

Check Test R1 (CHKR1):

Dye solution (R1) and water are pipetted to sample (water) and absorbance is measured by the instrument. Mean and CV of 21 determinations are calculated and compared to the specifications given below (accuracy and precision).

Check Test R2 (CHKR2):

Dye solution (R2) and water are pipetted to sample (water) and absorbance is measured by the instrument. Mean and CV of 21 determinations are calculated and compared to the specifications given below (accuracy and precision).

Test principle

Sample and reagent are pipetted and mixed, and the absorbance is measured photometrically.

Reagents - working solutions

R1 Orange G: 45 mg/L; TRIS: 3 g/L, pH 7.5; Tween 80: 0.25 g/L; preservatives**R2** Orange G: 45 mg/L; TRIS: 3 g/L, pH 7.5; Tween 80: 0.25 g/L; preservatives**R3** Sodium chloride: 1.54 mol/L

Precautions and warnings

For in vitro diagnostic use.

Exercise the normal precautions required for handling all laboratory reagents.

Safety data sheet available for professional user on request.

Disposal of all waste material should be in accordance with local guidelines.

Reagent handling

Ready for use.

Storage and stability

INSTC

Shelf life at 2-8 °C:

See expiration date on **cobas c** pack label.

On-board in use and refrigerated on the analyzer:

7 days

Specimen collection and preparation

Sample:

Check Solution Sample

Ingredients: Orange G: 5.2 g/L; TRIS: 3 g/L; Bovine serum albumin: 40 g/L; preservative

Before measurement of the Check Test Sample dilute the Check Solution Sample exactly 1 + 9 with distilled/deionized water.

Stability of dilution: 1 day at 15-25 °C. Store in a closed container.

Materials provided

See "Reagents - working solutions" section for reagents.

Materials required (but not provided)

See "Order information" section.

General laboratory equipment

Assay

For optimum performance of the assay follow the directions given in this document for the analyzer concerned. Refer to the appropriate operator's manual for analyzer-specific assay instructions.

The performance of applications not validated by Roche is not warranted and must be defined by the user.

Applications

cobas c 311 test definition CHKS

Assay type	1 Point		
Reaction time/Assay points	7 / 30		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R3	150 µL	-	
<i>Sample volume</i>	<i>Sample</i>		<i>Sample dilution</i>
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	2.0 µL	-	-

cobas c 501/502 test definition CHKS

Assay type	1 Point		
Reaction time/Assay points	7 / 45		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R3	150 µL	-	
<i>Sample volume</i>	<i>Sample</i>		<i>Sample dilution</i>
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	2.0 µL	-	-

cobas c 311 test definition CHKR1

Assay type	1 Point		
Reaction time/Assay points	4 / 14		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R1	80 µL	100 µL	
<i>Sample volume</i>	<i>Sample</i>		<i>Sample dilution</i>
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	15.0 µL	-	-

cobas c 501/502 test definition CHKR1

Assay type	1 Point		
Reaction time/Assay points	3 / 20		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R1	80 µL	100 µL	
<i>Sample volume</i>	<i>Sample</i>	<i>Sample dilution</i>	
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	15.0 µL	–	–

cobas c 311 test definition CHKR2

Assay type	1 Point		
Reaction time/Assay points	6 / 25		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R2	40 µL	140 µL	
<i>Sample volume</i>	<i>Sample</i>	<i>Sample dilution</i>	
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	15.0 µL	–	–

cobas c 501/502 test definition CHKR2

Assay type	1 Point		
Reaction time/Assay points	6 / 36		
Wavelength (sub/main)	660/480 nm		
Reaction direction	Increase		
Units	mABS		
Reagent pipetting		Diluent (H ₂ O)	
R2	40 µL	140 µL	
<i>Sample volume</i>	<i>Sample</i>	<i>Sample dilution</i>	
		<i>Sample</i>	<i>Diluent (H₂O)</i>
Normal	15.0 µL	–	–

Calibration

Calibrator S1: H₂O (concentration 0.0)
 Calibration mode Linear
 Calibration is not performed. Calibration values 0 for S1
 ABS and 10000 for K-Factor are entered manually.

Specifications of performance

Refer to target values for accuracy given on the **cobas c** pack
 (standardized for each new lot).

	Recovery of target value	CV
CHKS	+/- 8 %	≤ 1.5 %
CHKR1	+/- 5 %	≤ 0.5 %
CHKR2	+/- 5 %	≤ 1.0 %

Note: In case the target values are not reached the respective precision run (n = 21) has to be repeated.

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