

To Whom It May Concern

For ISO 15189:2012 and ISO 15189:2014 accredited Laboratories – requirements regarding "Calibration & Verification Procedures" [1]

All In vitro Diagnostics Products which are manufactured and distributed by Roche Diagnostics GmbH and for which a Free-Sales-Certificate is issued, are CE-marked.

The In-Vitro-Diagnostics Directive of the European Union [2] requires for all CE marked products that the manufacturer assures compliance of the products with the requirements of the In-Vitro-Diagnostics Directive. This means that all processes in development and manufacturing of Roche Diagnostics GmbH products are guided by a Quality Management System. Our Quality Management System is in compliance with the requirements from ISO 13485:2012 [3] + AC:2012 and 21 CFR Part 820 [4].

The mentioned regulations and standards require that the production systems and measuring devices used are qualified and the manufacturing and test procedures are validated. This status has to be assured by scheduled maintenance and by regular qualification resp. validation reviews and updates.

All physical quantities, calibrators and controls used in Roche Diagnostic systems are fully traceable to certified standards or reference materials. The performance of all In-vitro diagnostics systems of Roche Diagnostics GmbH at the customer site is assured if regular Quality Control measurements, cleaning and maintenance procedures as described in the instructions for use or service documentation are performed. By having controlled internal procedures and by running the tasks required in the respective user documentation, all In-vitro diagnostics systems of Roche Diagnostics GmbH will be performed as specified during their defined lifetime.

Additional calibration or verification procedures are NOT required of the user in order to assure the specified performance of every system of Roche Diagnostics GmbH. Only if a user deviates from these manufacturer's recommendations, the user have to establish site-specific calibration and verification procedures as part of his accreditation process.

Mannheim, 18 December 2017

Roche Diagnostics GmbH

Roche Diagnostics GmbH Sandholer Straße 116 D-68305 Mannheim

7 4

c111

V4.3.0.1835

15260

admin

26.09.2019 14:33

Abs. Air/Water Calibration:

Abs. Air/Water Calibration. Cuvette segment is moved to handling position 1.

Insert an empty cuvette segment, then press

Cuvette segment is moved to handling position 2.

Insert an empty cuvette segment, close the cover, then press <OK>.
Starting the calibration.

Waiting for completion. Maintenance action complete.

Wavelength	H20	H20 cuvette
340	-0.0057	0.0777
378	-0.0041	0.0749
409	-0.0034	0.0731
449	-0.0002	0.075
480	0.0009	0.0748
512	0.0025	0.076
520	0.0026	0.0759
552	0.0037	0.0767
583	0.0048	0.0775
629	0.006	0.0783
652	0.0066	0.0789
659	0.0064	0.0786

Outlier statistics:

Air : 0 Water : 0 Diff : 0 Total : 0

Press <OK> to use these values.
Then press <Cuvettes> and exchange the two segments.

c111 V4.3.0.1835 15260 admin 26.09.2019 14:51

Check Pipetting Accuracy:

Place sample 'aCHK' on the instrument. Created 16 CHECK test orders in sample order 'aCHK'.

Cuvette segment is moved to handling position 1.

Insert first cuvette segment, then click OK. Cuvette segment is moved to handling position 2.

Insert second cuvette segment and close the main cover, then click DK.

System changes to operating and runs CHECK tests. Wait for completion.

of results = 16, Mean = 1.27131Abs SD = 0.00893266, CV = 0.702636% Diagnostic action completed.

Roche Professional Services (ISO 9001:2015 certified)

Customer Support Center No: 1800-123-7599 /Toll No: +91-44-30413900



Case No.	CAS-0	010478754	Instrument Model					cobas c 111		
Order No.	ORD-0	0013607683	Instrume	Instrument Serial No.					15260	
Contract Type			Finance Status CASH							
Lab/Inst./hosp.Name			Dr.N.V F	Potdar	Dr. Potdar La	aboratories				
Customer No.			0052060	0204						
Contact Name :			Nilkanth	Potda	ľ					
Contact Number :			+919822	232345	58					
Address :			Potdar L	aborat	tory,					
City:			Sholapu	r				***************************************		
Call Received Date/Time:		07.10.2019 16:15			Attended Time:	09.10.2).2019 10:30			
Јор Туре	Custome	er training (follow-up)								
Job Description	ļ	p training.								
Action Summary	Cause: Follow Up training. Workdone: Follow-up training completed. calibeations done. Qc was within in range. Maintenance training was shown and performed. Verification: system working fine. Customer Satisfaction Rating (1-5): 4							tenance		
		Spare	Part Repla	iced						
Part No	Parts Description				Batch No Batch Expir			Qty	Invoice Type	
		Tii	me Report				•••••			
Effective Visit Date : 09.1	0.2019		Comp	lete D	ate: 10.10.2	019				
Date	Туре						Tir	ne		
2019.10.09	Travel Ti	meStandard					8			
2019.10.09	Working	TimeStandard					6.5			
9.10.10	Travel Ti	meStandard					2			
2019.10.10	Working	TimeStandard					8			
						Total:	24	.5		
Customer's Signature Name : Potdar Nilkanth				_	ineer/Applica ajirao Mohite	tion Specialis	st			
	mohite									
35-			-	TY	181					

Disclaime

- 1. This Service report has been signed by the authorized representative of your organization.
- 2. Discrepancies if any must be intimated within a period of seven (7) days of the receipt of the email, in the absence of which the



Qualification Service Installation Qualification / Operation Qualification (v.1.0)

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cobas® c111



General Information		
Country:	INDIA	
Customer Name:	Dr. Potdar Laboratories	
Customer Address:	First Floor, Shashwat Height	ts, 519, Shukrawar Peth, Solapur
Person Responsible for Quality Assurance:	Dr. Potdar	
System Information		
cobas C111 :	S/N 15260	
Host provider:		
Software Version:	3.0.185	
Installation Information	1	
Installation Start Date:	26/9/2019	
First Installation:	yes	
Reconfiguration: From		To:
Relocation: From:		To:
Roche Responsible Representative	Pravin Kanku	ire
		cobas



Qualification Service Installation Qualification / Operation Qualification (v.1.0)

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Installation Qualification:

This document forms the basis of the Qualification Services Certificate. It certifies that the instrument is installed according to the manufacturer's specifications. The report presents and documents the test procedures, the documentation, reference and acceptance criteria used to verify that the system is installed according specifications. The report demonstrated that all installation qualification criteria have been met satisfactorily.

Notice: The following tests are to be carried out by trained Roche personnel only.

Purpose: The purpose of this test is to confirm that the instrument was delivered undamaged and installed correctly.

Test#	Test	Pass Fail	Signature Date
IQ.1.1	Operator's Manual available	Pass	26/9/2019
Q.1.1	Environmental parameters met	Pass	26/9/2019
Q 1.2	Instrument delivered undamaged and	Pass	26/9/2019
IQ 1.3	complete	Pass	26/9/2019
IQ 1.4	Transport locking successfully removed	Pass	26/9/2019
IQ 1.4	All connections correctly installed	Pass	26/9/2019
IQ 1.5	Instrument positioned according to Installation	Pass	26/9/2019
IQ 1.0	Manual	Pass	26/9/2019
10.4.7	Instrument boot process successfully	Pass	26/9/2019
IQ 1.7	Checksum according to specification	Pass	26/9/2019
IQ 1.8	Mechanical adjustments complete	Pass	26/9/2019
Q 1.9	Mechanical adjustments complete	Pass	26/9/2019
IQ 1.10	Auxiliary components positioned	Pass	26/9/2019
IQ 1.11 IQ 1.12	Instrument installation check Host communication settings checked	Pass	26/9/2019

Test#	Test	Pass Fail	Signature Date
IO 2	Installation Qualification for cobas c111	Pass	26/9/2019



Qualification Service Installation Qualification / Operation Qualification (v.1.0)

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Operational Qualification:

This document is the basis of the Qualification Service Certificate. It certifies that the instrument is operating according to the manufacture's specifications. This report presents and documents the test procedures, documentation, references and acceptance criteria used to verify that the specified system is operating according the specifications. The report demonstrates that all operational qualification criteria have been met satisfactorily.

Purpose: The purpose of this test is to check that the modules are operating in accordance with the

Test#	Test	Pass Fail	Signature Date
OQ.1	Calibration successfully	Pass	9/10/2019
OQ.2	Quality Control successfully	Pass	9/10/2019
	Accuracy check successfully	Pass	9/10/2019

Deviation Report: Any discrepancies found during the installation must be documented in the space below. Roche personnel will then investigate the deviation and decide upon the most appropriate action to be taken.

Deviation #1	
NONE	
Investigation	
Action taken	
Deviation resolved satisfactorily?	specify

Deviation #2	
NONE	
Investigation	
Action taken	
Deviation resolved satisfactorily?	specify



cobas

Qualification Service Installation Qualification / Operation Qualification (v.1.0)

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Conclusion

All test results are acceptable.	st results are acceptable.									
Any deviation or non-conformance as a deviation and the relevant for		ves								
All acceptance criteria have been racceptable and the unit is approve		emed yes								
Comments ALL RESULTS	WITHIN ACCEPTABLE F	RANGES								
Completed by Roche Representative	Date	9/10/2019								
Print Name Shivajirao Mohite	Signature	mobile								
Reviewed by Customer Contact	Date									
Print Name Dr. Potdar	Signature									
Reviewed by Customer Quality Assurance	Date									
Print Name	Signature									



Qualification Service Installation Qualification (v.1.0)

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Installation Qualification for cobas® c111

Description	Operator's Manual available	
	Check that a copy of the latest version of the Operator's Manual is available.	Pass
IQ 1.2	Environmental parameters	
	Ambient temperature in the lab is between 15° and 32 °C	Pass
	Relative Humidity maximum of 50% at 32 °C and non-condensing	Pass
	Bacteria free, deionized water < 10 cfu/ml	Pass
	Water conductivity 1.0 µS/cm or less	Pass
	Dust and Vibration free	Pass
	Instrument is not exposed to direct sunlight	Pass
IQ 1.3	Instrument delivered undamaged and	
	All covers are undamaged	Pass
	All accessory boxes are delivered	Pass
	Instrument does not show any external damage	Pass
IQ 1.4	Transport locking successfully removed	
	Unpacking of the Analyzer and accessories without damage to units	Pass
IQ 1.5	All connections correctly installed	
	Power supply voltage at the customer facility:	YES
	UPS system available:	yes
	Voltage fluctuation less than 230 ±5V	Pass
	Grounding less than 1.0 V	Pass



Qualification Service Installation Qualification / Operation Qualification (v.1.0)

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Operational Qualification:

Notice:

The steps described in OQ.1 have to be carried out after a new system installation and after any repair action which requires additional calibration.

If the service action does not affect the measurement performance, only apply steps OQ.2 and OQ.3 of the Operation Qualification.

Description

OQ 1 Calibration

Calibration of all photometric parameters successful

yes

Calibration of all ISE parameters successful (attached printout)

not applicable

OQ.2 Quality Control

Specify the type of control used:

BIORAD CHEMISTRY ASSAYED CONTROL

QC of all photometric parameters within acceptable range

yes

QC of ISE parameters within acceptable range (attached printout)

not applicable

OQ.3.1 Accuracy check for ISE

Perform test with analytical reagents

Number of det
Na 21
K 21
Cl 21

Sample solution: PNU (code 300 / Cat. No. 10171735, 10171743, 10651257). Fill 21 Hitachi cups with PNU (code: 300) and perform Na, K and Cl tests. Calculate the CV

Accuracy check for ISE was within acceptable range not applicable

Carry over										
	Nacl	Sample	Nacl	% carryover						
Albumin	0.1	2.83	0.12	0.0088						
Alk.phosphatase	-0.7	357.9	-0.4	0.014						
ALTL	-0.7	83.2	-1	0.02						
ASTL	0.7	173.9	0.7	0.003						
Bili Direct	0	1.5	0	0						
Bili Total	0	3.6	0	0						
Cholesterol	0.29	90.8	-0.16	0.0116						
Creat	-0.1	4.6	-0.2	0.012						
Glucose	-0.21	274.6	-0.26	0.0126						
HDL	0.06	22.5	-0.14	0.0114						
T.Protein	-0.1	3.9	-0.1	0.011						
Triglyceride	0.18	91.9	0.32	0.0068						
Uric Acid	0	9.5	0	0						
Urea	-0.27	92.04	-0.32	0.0132						

					BIL -				GLUCO					
Assay	ALB	ALP	ALTL	AST	D	BIL- T	CHOL	CREAT	SE	HDL	TP	TGL	UA	UREA
1	4.27	100.1	26	40	0.4	0.8	236	2	81	59	6.5	190	4.8	32
2	4.38	104	26	41	0.4	0.8	241	2	81	60	6.7	191	4.9	32
3	4.38	103	26	40	0.4	0.8	239	2	81	59	6.6	193	4.9	32.7
4	4.38	103	26	40	0.4	0.8	239	1.9	81	59	6.6	192	4.9	32
5	4.38	104	26	40	0.4	0.9	237	2	81	60	6.6	193	4.9	32
6	4.25	97	26	40	0.4	0.8	232	2	78	58	6.4	184	4.7	32
7	4.33	101	25	41	0.4	0.8	236	1.9	80.8	60	6.6	190	4.8	33
8	4.38	101	27	41	0.4	0.8	240	1.9	81	59	6.7	193	4.9	33
9	4.37	105	26	40	0.4	0.8	239	2	81	59	6.7	194	4.9	33
10	4.38	105	26	41	0.4	0.8	239	1.9	80	59	6.6	191	4.9	33
Mean	4.35	102.31	26	40.4	0.4	0.81	237.8	1.96	80.58	59.2	6.6	191.1	4.86	32.47
SD	0.05011	2.5309	0.4714	0.5164	6E-17	0.03162	2.61619	0.05164	0.95893	0.63246	0.09428	2.84605	0.06992	0.50343
CV	1.15198	2.47375	1.81309	1.27821	1E-14	3.90405	1.10016	2.63468	1.19004	1.06834	1.4285	1.4893	1.4387	1.55045

Unrestricted

	ALB	ALP	ALTL	AST	BILD	BILT	CHOL	CREAT	GLUC	HDL	TP	TGL	UA	UREA
RUN 1	4.29	103.4	25.3	39.1	0.4	0.9	236.3	2	81.35	58.39	6.5	190.73	4.9	32.6
	4.13	98.4	24.4	39.1	0.4	0.7	226.4	1.9	78	55.9	6.3	183.1	4.7	31.5
	4.17	98.2	25.6	39.1	0.4	0.8	232.8	1.9	82.4	57.5	6.4	191.8	4.7	31.4
	4.3	104.9	25.7	39.1	0.4	0.8	236.1	2	81.2	58.3	6.4	191.2	4.8	31.4
	4.3	102.1	24.1	39	0.4	0.9	237.8	2	80.9	58.5	6.4	191.8	4.8	32.9
RUN 2	4,24	105.5	25	38.7	0.4	0.8	234.9	2.1	81.5	58.2	6.4	191.7	4.8	31.9
	4.4	106	25.6	38.9	0.4	0.8	243.2	2.2	82.7	60	6.6	193.2	4.9	32.2
	4.4	103.8	26.8	42.1	0.4	0.8	245.7	2.2	84.9	61.8	6.6	193.7	5	32
	4.5	104.2	26.6	42.1	0.5	0.8	251.9	2.2	84.2	53.6	6.6	200.1	5	32.9
	4.36	100.2	26.8	39.7	0.5	0.8	241.5	2.2	84.3	62.6	6.5	194	4.9	32
RUN 3	4.33	89.1	28.2	41.7	0.4	0.8	238.6	2	80.9	60.8	6.3	185	4.7	31.6
	4.26	88.7	27.4	41.3	0.4	0.8	237.8	2	79.9	60.6	6.4	185.3	4.7	30.1
	4.4	91.8	27.4	41.1	0.4	0.8	241.6	2	81.9	61.1	6.4	188.3	4.8	30.7
	4.4	93.2	28.6	42.2	0.5	0.8	243.5	2.1	82.3	61.1	6.4	191.6	4.8	31
	4.4	93.7	28.2	42.5	0.5	0.9	246.6	2.1	82	62.1	6.5	190	4.8	31.4
RUN 4	4.2	83.8	27.2	40.6	0.4	0.8	229.7	2	78.8	58.7	5.9	180.4	4.6	30.4
	4.2	86.5	27.5	41.4	0.4	0.8	235.9	2	89.7	60.2	6.2	180.6	4.7	30.8
	4.1	86.1	28.4	42.2	0.4	0.8	239.2	2.1	80.4	60.8	6.1	181.2	4.7	31.4
	4.3	89	27.8	42.1	0.4	0.8	238.5	2.1	79.7	62.4	6.4	183.3	4.9	31.2
	4.2	86	27.9	42.3	0.5	0.9	239.5	2.1	80.4	60.7	6.2	188.9	4.8	30.4
RUN 5	4.2	85.5	27.4	41	0.4	0,8	237.3	2	80.1	60.2	6.3	183	4.7	31.7
	4,3	85.6	26.2	40.8	0.4	0.8	239.2	2.1	81	60.7	6.3	185.2	4.7	29.8
	4.3	86.3	26.6	42.1	0.4	0.9	242.3	2.1	80.5	60.8	6.2	187.4	4.8	30.4
	4.1	83.2	26	41.1	0.4	0.7	232.1	1.9	78.9	59	5.9	180.1	4.6	29.3
	4.3	86.6	25.7	40.8	0.4	0.7	236.8	1.9	80.3	59.1	6	182.3	4.7	30.6
MEAN	4.284	93.672	26.656	40.804	0.42	0.8083	238.61	2.048	81.53	59.724	6.328	187.76	4.78	31.264
SD	0.108	8.074	1.259	1.315	0.041	0.058	5.446	0.096	2.391	2.067	0.197	5.275	0.108	0.926
CV	2.520	8.620	4.724	3.224	9.720	7.220	2.282	4.700	2.933	3.460	3.111	2.810	2.260	2.962