

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 [2A.] which is currently switching to IVD Regulation 2017/746/EU (final timeline: May 26, 2022) [2B.] requires for all CE marked products that the manufacturer assures compliance of the products with the requirements of the mentioned directive or regulation. 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 13485:2016 [3] 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 by 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.



- [1] ISO 15189:2012/ ISO 15189:2014 Medical laboratories Requirements for quality and competence
- A. Directive 98/79/EC of the European Parliament and of the Council of the 27 October 1998 on vitro diagnostics medical devices;
 B. IVD Regulation 2017/746/EU of the European Parliament and of the Council of 5 April 2017 on in vitro diagnostic medical devices and repealing Directive 98/79/EC and Commission Decision 2010/227/EU
- [3] EN ISO 13485:2016 Medical devices Quality management systems-Requirements for regulatory purposes
- [4] CFR Part 820, Quality System regulations 21 Regulations on medical devices

Mannheim, 10. August 2021

Sincerely,

Roche Diagnostics GmbH

i.V./on behalf of the company

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Andrea Weber

Manager Global Regulatory Affairs Centralised and Point of Care Solutions

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ppa/on behalf of the company

Docusigned by:

Kalf Eilluski

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

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Operational Qualification for cobas® c311

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, perform only steps OQ.2 and OQ.3 of the Operation Qualification.

ription	O-U-				
00.1	Calibra	ation			
	Calibra	ation of all pho ssful (attached	otometric para d printout)	meters	yes
	Calibra (attack	ation of all ISE hed printout)	parameters s	uccessful	yes
OQ.2	Qualit	y Control			
	Coori	fy the type of o	control used:		
	Speci	iy ale type of		pocc4	A SHALL MANUAL THE TAX A SHALL HAVE A SHALL
	SERVA D	ATTENDED TO A STREET	7 7 7 1 1 1 N	PCCC1	
	QC of accep	all photometr table range (s	ic parameters v ee attached re	yes	
	QC of (see a	ISE paramete ttached result	ers within acce s)	ptable range	yes
		-h - ele for	ISE	Contract of the second	则是对外通过区域。当 自己的中央主义的,2017年
OQ.3		acy check for			
	Perfor	m test with an	alytical reager	nts Number of det	t.
	Na	ACN	989	15	
	K	ACN	990	15 15	
	CI	ACN	991	975	
	Sample Fill 21 the C\	Hitachi cups	NU (code 300 / with PNU (cod	11735, 10171743, 10651257). erform Na, K and Cl tests. Calculate	
	9493503	shack for	ISE was within	acceptable ra	ange yes

cobas

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OQ.3.2 Accuracy check for Photometric Assays

Perform test with analytical reagents

Number of det.

2-point/end-point Assay

21

Rate A Assay

Sample solution: PNU (code 300 / Cat. No. 10171735, 10171743, 10651257). Fill 21 Hitachi cups with PNU (code: 300) and perform 21 determinations of each parameter.

Accuracy check for Photometric Assays was within

acceptable range

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. be taken.

Deviation #1	COS STOR	ANTENNA DE	展的企业			
					HONEY TO	
Investigation					The state of	Re.
Action taken						
Action taken						
			法整约等		14	
Deviation resolv	ed satisfac	torily?		2000	specify	

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Attachments

cobas

TEST	N 00015	MEAN	UNIT	RANGE	MAX.	MIN.	SD	CV(%)
C1		116.41	mmol/L	1.0	116.9	115.9	0.27	0.23
CREJ2	00015	4.143	mg/dL	0.14	4.23	4.09	0.036	0.88
K	00015	7.721	mmol/L	0.08	7.75	7.67	0.019	0.24
Na	00015	149.3	mmol/L	1	150	149	0.5	0.31

17/12/22 19:42

Precision Check

TEST N MEAN UNIT RANGE MAX. MIN. SD CV(%)
ASTL 00021 162.24 U/L 2.9 163.8 160.9 0.69 0.43
GLUC3 00021 252.94 mg/dL 2.5 254.1 251.6 0.64 0.25

Ser/Pl N000014 001 17/12/22 ASTL 17:50:27 162.2 bmserv	ID Pcheck12 GLUC3 252.3
Ser/Pl N000015 001 17/12/22 ASTL 17:50:51 163.4 bmserv	ID Pcheck13 GLUC3 253.2
Ser/Pl N000016 001 17/12/22 ASTL 17:51:15 162.6 bmserv	ID Pcheck14 GLUC3 253.3
Ser/Pl N000017 001 17/12/22 ASTL 17:51:39 162.4 bmserv	ID Pcheck15 GLUC3 253.6
Ser/Pl N000018 001 17/12/22 ASTL 17:52:03 162.8 bmserv	ID Pcheck16 GLUC3 252.9
Ser/Pl N000019 001 17/12/22 ASTL 17:52:27 163.8 bmserv	ID Pcheck17 GLUC3 253.2
Ser/Pl N000020 001 17/12/22 ASTL 17:52:51 162.8 bmserv	ID Pcheck18 GLUC3 254.1
Ser/Pl N000021 001 17/12/22 ASTL 17:53:15 162.6 bmserv	ID Pcheck19 GLUC3 253.7
Ser/Pl N000022 001 17/12/22 ASTL 17:53:39 162.9 bmserv	ID Pcheck20 GLUC3 252.6
Ser/Pl N000023 001 17/12/22 ASTL 17:54:03 162.2 bmserv	ID Pcheck21 GLUC3 253.4

ser/Pl N000003 001 17/12/22 ASTL 17:46:51 160.9 bmserv	ID Pcheck1 GLUC3 252.8
Ser/Pl N000004 001 17/12/22 ASTL 17:47:09 161.6 bmserv	ID Pcheck2 GLUC3 252.3
Ser/Pl N000005 001 17/12/22 ASTL 17:47:28 161.7 bmserv	ID Pcheck3 GLUC3 253.1
Ser/Pl N000006 001 17/12/22 ASTL 17:47:47 161.9 bmserv	ID Pcheck4 GLUC3 251.6
Ser/Pl N000007 001 17/12/22 ASTL 17:48:06 161.4 bmserv	ID Pcheck5 GLUC3 252.1
Ser/Pl N000008 001 17/12/22 ASTL 17:48:25 161.3 bmserv	ID Pcheck6 GLUC3 252.6
Ser/Pl N000009 001 17/12/22 ASTL 17:48:45 162.1 bmserv	ID Pcheck7 GLUC3 252.4
Ser/Pl N000010 001 17/12/22 ASTL 17:49:03 162.1 bmserv	ID Pcheck8 GLUC3 253.3
Ser/Pl N000011 001 17/12/22 ASTL 17:49:22 161.8 bmserv	ID Pcheck9 GLUC3 252.2
Ser/Pl N000012 001 17/12/22 ASTL 17:49:41 162.2 bmserv	ID Pcheck10 GLUC3 253.6
Ser/Pl N000013 001 17/12/22 ASTL 17:50:03 162.3 bmserv	ID Pcheck11 GLUC3 253.5

19/09/23

08:49

C004026 097 3 RF-II 0 51.4 19/09/23 08:35:20

bmserv

LOT 62690000 RFC02

Data Monitor					19/09/23	08:54
19/09/23 08:35:20 bmserv	09026 094 ALB2 3.14	LOT 52520500 ALP2L 89	PCCC1 AMYL2 63 ReagEX	ASTL 46.0	DBIL2 0.820	
	BILT3 1.008	CA2 8.81	CHO21 94.4	CREJ2 0.98	GGT 12 58	
	GLUC3 106.6	LIP 46.7	LDH12 172	TP2 4.91	TRIGL	
	UA2 4.8	UREAL 41.5	PHOS2 3.65	LDLC3 54.0	IRON2 110.41	
	CRP4 5.93	UIBCI 205.0	ALTL 47.9	HDLC4 27.0		

	19/09/23	09:00				
C0: 19/09/23 08:35:20 bmserv	10026 095 ALB2 4.96	LOT 53571900 ALP2L 259	PCCC2 AMYL2 270 ReagEX	ASTL 148.3	DBIL2 2.198	
	BILT3 3.654	CA2 14.17	CH021 169.3	CREJ2 3.73	GGT 1 2 222	
	GLUC3 252.3	LIP 101.8	LDHI2 315	TP2 7.66	TRIGL 222.6	
	UA2 10.1	UREAL 121.4	PHOS2 8.35	LDLC3 92.4	IRON2 245.63	
	CRP4 53.72	UIBCI 254.3	ALTL 127.6	HDLC4 55.0		

19/09/23 09:11

C010027 095 LOT 53571900 PCCC2 09/23 Na K C1 05:20 143 7.31 106.0 19/09/23 Na 09:05:20 143 bmserv

19/09/23 10:19

C010029 095 LOT 53571900 PCCC2 19/09/23 Na K C1 10:13:28 142 7.44 107.7

bmserv