

Calibration Certificate

This is to certify that the **Cobas E411** is a fully automated analyzer bearing the Serial Number **0936 -02** at Likhitha's Diagnostics and Speciality Lab, ZenRise, Madinaguda, Hyderabad – 500049, has been calibrated on **19.08.2021.**

The calibration includes:

Adjustments: Checked and adjusted sample/Reagent Rotor, Incubator, Sample/Reagent probe, Bead Mixer and their respective home positions.

Incubation Disk: Range: 36.8°C to 37.2°C

Adjusted: 37°C

<u>Detection Unit:</u> Target: 28.0°C

Adjusted: 28.0°C

PC/CC: Target: 28°C

Adjusted: 28°C

Adding to this all the temperatures, PMT Voltage and volumes drawn by all pumps were checked and found they are OK.

Next calibration due on 18.08.2022

For Roche Diagnostics India Pvt Ltd.,

T R Siddardha,

Sr.Technical Service Specialist,

Hyderabad.



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







Page 1 of 5

cobas® e411 instrument



\sim		
General	Int∩rn	nation

Country: INDIA

Customer Name: LIKHITHA'S DIAGNOSTICS & SPECIALITY LAB

Customer Address: Likhithas Diagnostics and Speciality Lab, ZenRise CRO,

Plot No. 201, Mythrinagar, NH – 65, Madinaguda, Miyapur,

Hyderabad - 500049.

Person Responsible

for Quality Assurance: Mr. Hanmant Jadhav

System Information

Cobas e411 Disk

S/N IP Address

cobas e411 0936 -02 182.18.38. 220

cobas link: SCL NA

Host provider: NA

User Software Version: 02 - 08.

Installation Information

Installation Start Date: 16.08.2021

First Installation: YES

Relocation: From: To:

Roche Responsible Representative : Mr. Siddartha TR, Sr.Technical Service Engineer





Page 2 of 5

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	
IQ 1.2	Environmental parameters met	Pass	
IQ 1.3	Instrument delivered undamaged and complete	Pass	3
IQ 1.4	Transport locking successfully removed	Pass	7
IQ 1.5	All connections correctly installed	Pass	2
IQ 1.6	Instrument positioned according to Installation Manual	Pass	Ş
IQ 1.7	Instrument boot process successfully	Pass	3
IQ 1.8	Checksum according to specification	Pass	~
IQ 1.9	Mechanical adjustments complete	Pass	7
IQ 1.10	Auxiliary components positioned	Pass	(.7
IQ 1.11	Instrument installation check	Pass	(b)
IQ 1.12	Host communication settings checked	not applicable	

Test #	Test	Pass Fail	Signature Date
IQ.3	Installation Qualification for all cobas <e411></e411>	yes	A





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

Page 3 of 5

Deviation #1		
	NA	
Investigation		
Investigation		
Action taken		
Deviation resolved satisfactorily?		specify
Deviation #2		
Deviation #2	NA	
	NA	
Investigation		
Action taken		
Deviation resolved satisfactorily?		specify
,		
Deviation #3		
	NA	
Investigation		
Investigation		
Action taken		
Deviation resolved estisfactorily?		enocify



Page 4 of 5

Operational Qualification:

Deviation #1

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.

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

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	D
OQ.2	Quality Control successfully	Pass	Shumpund
OQ.3	Accuracy check successfully	Pass	Act of the second

	NA	
Investigation		
Action taken		
Deviation resolved satisfactorily?		specify
Deviation #2		
	NA	
Investigation		
Action taken		
ACTION LANCIT		
		.,
Deviation resolved satisfactorily?		specify



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

Page 5 of 5

Conclusion

	All test results are acceptable.		yes
	Any deviation or non-conformances observed has a deviation and the relevant forms complete		orded no
	All acceptance criteria have been met. This equacceptable and the unit is approved for its inter-		emed yes
Comments	s All available parameter calibrations were passe	ed. QC values	were with in the range.
Completed	by Roche Representative	Date	08 / 16/ 2021
Print Name	Mr. Bhavani Prasad Varupula	Signature	Bhumpund
Reviewed b	by Customer Contact	Date	08 / 16/ 2021
Print Name	e_Mr. HANMANT JADHAV	Signature	
Reviewed t	by Customer Quality Assurance	Date	08/16/2021
Print Name	e Mr. HANMANT JADHAV	Signature	_carf_





Qualification Service Installation Qualification







Page 1 of 2

Installation Qualification for cobas e411®

Description

uon		
IQ.3.1	Function check of e411 according to specifications	
	The e411 is installed according to the installation manual and using official tools	Pass
IQ.3.2	Mechanical adjustments complete	
	All mechanical adjustments for the different e411 mechanical parts are carried out	Pass
	Adjustment check during mechanical check function	Pass
	Sample LLD adjusted to spec.	Pass
IQ.3.3	Auxiliary components positioned	
	Sample probe, reagent probe, beads mixer paddle and measuring cell installed	yes
	Waste liner, CC/PC cups, CleanCell, ProCell positioned	yes
	System prime and system air purge for syringes and reagents	Pass
IQ 3.4	Instrument installation check	
	Incubator temperature 37°C ± 0.3°C	Pass
	No alarms during check	Pass
	System Volume Check (attached printout)	Pass
	PMT HV adjustment (attached printout)	Pass
	Assay Performance Check (AM+TSH, attached printout)	Pass
	Blank Cell calibration (attached printout)	Pass
	Mechanical adjustments parameter backed up	Pass
		onbas





Qualification Service Installation Qualification (v.1.0)

Page 2 of 2

Deviation #1		
	NA	
Investigation		
Investigation		
Action taken		
Deviation resolved satisfactorily?		specify
Deviation #2		
2011411011 11 2	NA	
Investigation		
Action taken		
7 Collecti Carteri		
Deviation resolved satisfactorily?		specify
Deviation #3		
Deviation no	NA	
Investigation		
Action taken		
7. Caroli tulion		
Deviation resolved satisfactorily?		specify





Qualification Service
Operation Qualification (v.1.0)







Page 1 of 2

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 Immuno paramete successful (attached printout)	ers	yes	l
OQ.2	Quality Control			
	Specify the type of control used:			
	3rd Party control (Bio-Rad)			
	QC of Immuno parameters within a range (attached printout)	cceptable	yes	l
OQ.3	Accuracy check for Immunology As	ssays		
	Perform test with analytical reagen	ts		
		Number of det.		
	Any non-infectious disease assay (e.g. TSH)	21		
	Sample solution: Applicable contro Fill 21 Hitachi cups with control ma		n 21 determinati	ions of each
	Accuracy check for immunoassays acceptable range	was within	Yes	l .

Deviation #1		
	NA	
Investigation		
IIIvestigation		
Anthor taken		
Action taken		
Deviation resolved satisfactorily?		specify



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

Page 1 of

Attachments

- 1. Calibration Printout
- 2. QC Printout
- 3. Precision Data





Qualification Service **Attachments**





Likhitha's Diagnostics and Speciality Lab, ZenRise, Madinaguda, Hyderabad Cobas E411 - Intrassay Precision Study

Date: 09.02.2022

Sample ID - Pooled Human Serum Sample

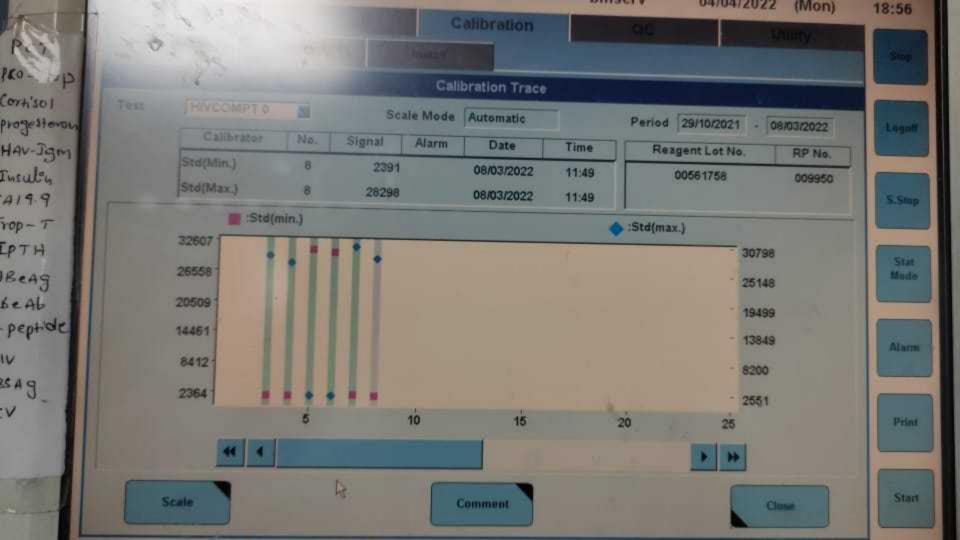
Analyte - Thyroid Stimulating Hormone

5.55 5.51 5.63 5.76 5.67 5.58
5.63 5.76 5.67 5.58
5.63 5.76 5.67 5.58
5.67 5.58
5.67 5.58
5.58
5.44
5.66
5.78
5.52
5.63
5.51
5.53
5.35
5.51
5.69
5.69
5.65
5.67
5.72
5.4
5.59
0.11 2.03

Result Report		Oper	ator-ID: NELIM	A	09/0	2/202 2, 1	.8:03
Sample/Control ID	Seq.	Pos.	Test	Dil	RPos	Result	Flag
000015142304	3523	0-21	TSH 0		3	5.55	Н
000015142304	3522	0-20	TSH 0		3	5.59	Н
000015142304	3521	0-19	TSH 0		3	5.63	Н
000015142304	3520	0-18	TSH 0		3	5.76	Н
000015142304	3519	0-17	TSH 0		3	5.67	Н
000015142304	3518	0-16	TSH 0		3	5.58	Н
000015142304	3517	0-15	TSH 0		3	5.44	Н
000015142304	3516	0-14	TSH 0		3	5.66	Н
000015142304	3515	0-13	TSH 0		3	5.78	Н
000015142304	3514	0-12	TSH 0		3	5.52	Н
000015142304	3513	0-11	TSH 0		3	5.63	Н
000015142304	3512	0-10	TSH 0		3	5.51	Н
000015142304	3511	0-9	TSH 0		3	5.53	Н
000015142304	3510	0-8	TSH 0		3	5.35	Н
000015142304	3509	0-7	TSH 0		3	5.51	Н
000015142304	3508	0-6	TSH 0		3	5.69	Н
000015142304	3507	0-5	TSH 0		3	5.69	Н
000015142304	3506	0-4	TSH 0		3	5.65	Н
000015142304	3505	0-3	TSH 0		3	5.67	Н
000015142304	3504	0-2	TSH 0		3	5.72	Н
000015142304	3503	0-1	TSH 0		3	5.40	Н
000926896900	3502	0-4	T3 0 T4 1 TSH 0		1 2 3	1.09 6.43 2.45	
000926897000	3501	0-3	TSH 0		3	9.60	Н
000910308103	3500	0-2	A-HCVII 0		14	0.050	
000014942704	3499	0-1	IGE 0	\	13	94.92	
000014942904	3498	0-20	TSH 0		3	1.72	
000910308503	3497	0-19	TSH 0		3	6.79	Н

Maron

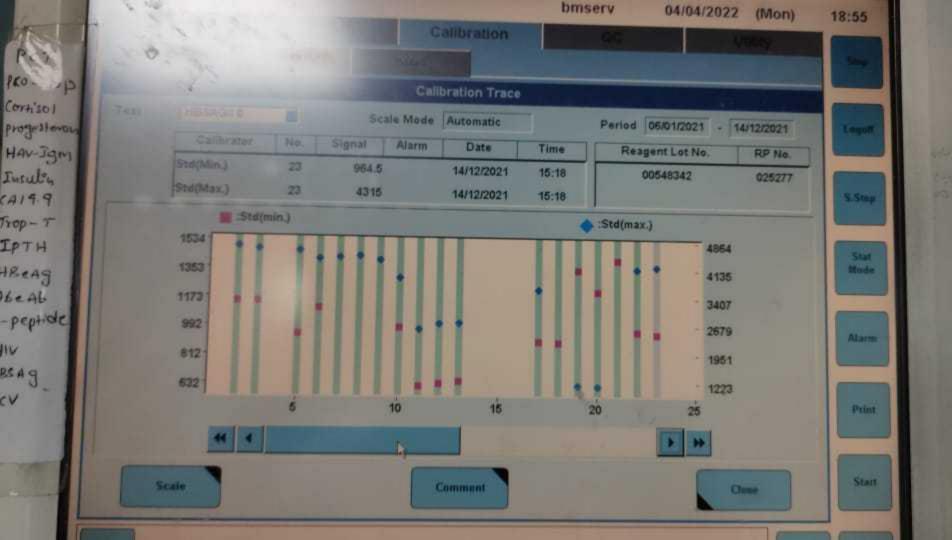
page 1 of 1



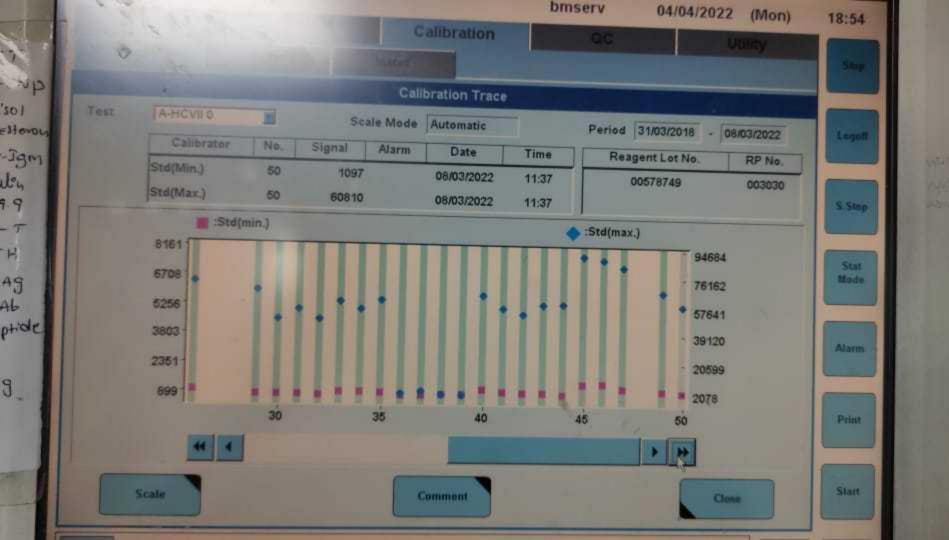
- 4			Calibration	QC		
0			-0			
			Calibration Res	ult		W 77
Test Cali	bration Type	Unit	Date Time	Calibrator Lot	Reagent Lot	RP No.
IVCOMPTO	Cutoff	COI	08/03/2022 11:49:43	00561758	00561758	032543
-Calib. was generat	Level1	Le	evel2			
Signal1	2418	2	28014			
Signal1 Signal2	2418 2365		28014			
	0.00000	2	ALLESTON			
Signal2 Dupl.	2365	2	28582			

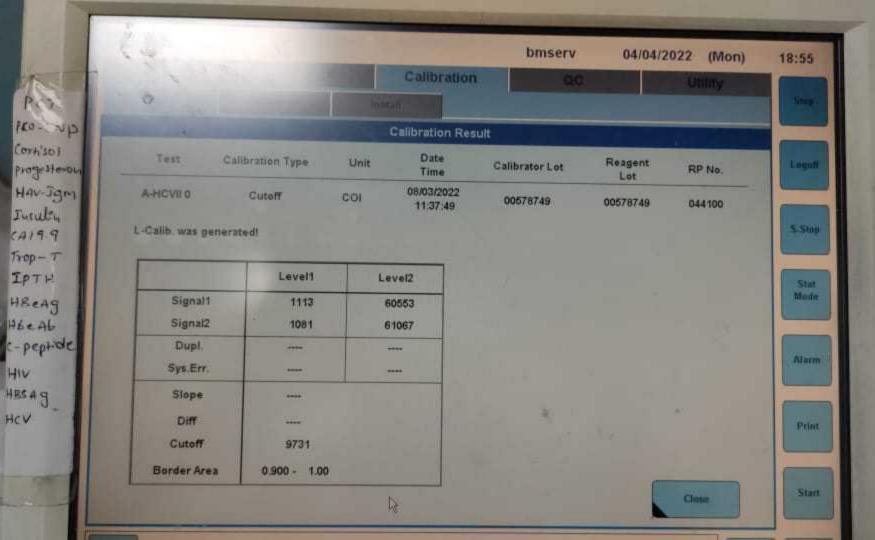
Progestorous
HAV-Igm
Insulan
CA199
Trop-T
IPTH
HBEAG
HEEAG
C-PEPTIDE

HIV HBSA9



		2 / 10 1	Calibration	00		176421WC
			- HILLAND CO.	198		Utility
92-		Inst	att			
			Calibration Res	ult		4
Test C	alibration Type	Unit	Date Time	Calibrator Lot	Reagent	RP No.
HBSAGII 0	Cutoff	COL	15/11/2021 11:54:01	00559215	00559215	015023
Signal1	972.1	-	4142			
Signal2	986.9		4369			
Dupl.	-	23	****			
Sys.Err.						
Slope			200			e i
Cutoff	339.9					
Border Area	0.900 - 1.0)				
-	1		Re			Close





P. D.

Cortiso!

Insulty

CA199 Trop-T IPTH

HREAG

HEEAL

HIV HESAS

HCV