



CALIBRATION CERTIFICATE OF CHEM ULTRA ANALYZER

Issued to : Rao's Standard Diagnostics Pvt. Ltd.
 Certificate No. : TEV/CAL/RSD/CA/21/01
 Asset No. : RSD/BME/CA/01 Serial No : AES2K0KH02040Y
 Model No : NA Date : 14.12.2021

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	TEV / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2021	14.05.2022

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS		
TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2% +0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2% +0.2V

Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.12.2021

Calibration Due Date: 13.12.2022

Calibrated By: Ms. M. Swathi, Engineer

Approved By:

Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.

238/A, 3rd Link Street, Industrial Complex,
Nehru Nagar, I.T. Highway,
Chennai - 600 096. Tamil Nadu, Phone: +91-44-24540611 | Cell: +91 9444056612
Telefax : +91-44-2454 0034

Email: theeagleview@gmail.com | automikrotekh@airtelmail.in



CALIBRATION CERTIFICATE OF ADIDUO PLUS

Issued to : Rao's Standard Diagnostics Pvt. Ltd.
 Certificate No. : TEV/CAL/RSD/ABA/21/02
 Asset No. : RSD/BME/APBA/02 Serial No : ES10019112P9160
 Model No : ADI DUO PLUS Date : 14.12.2021

CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	TEV / NIBPA / 01	ELECTRICAL SAFETY ANALYSER	ESA - 612	2111026	15.05.2021	14.05.2022

TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS

TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2% +0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2% +0.2V

Electrical safety test passed as per IEC Stand 60601.1

Calibration Passed: Yes No

Calibration Done Date: 14.12.2021

Calibration Due Date: 13.12.2022

Calibrated By: Ms. M. Swathi, Engineer

Approved By:

Engineering Manager

The above mentioned instrument has been certified using standards with accuracy guidelines traceable to the national institute of standards & technology (NIST). Devices, for which there are no NIST calibration standards, were measured against in-house performance standard using accepted test procedures.

Current Results Report by Test

01/08/2022 07:23:32

ALBUMIN				Units		g/dL	
Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.1069			01/08/2022 07:34:55
			1	0.1069 *			01/08/2022 07:34:55
Calibrator 1		SER	Mean	0.2295	3.40	27.7376	01/08/2022 07:38:11
			1	0.2295			01/08/2022 07:38:11
Control 1		SER	Mean	0.2205	3.15		01/08/2022 07:41:12
			1	0.2205	3.15		01/08/2022 07:41:12

ALP-AMP				Units		U/L	
Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.0059			01/08/2022 07:35:40
			1	0.0059			01/08/2022 07:35:40
Calibrator 1		SER	Mean	0.0600	207	3826.2672	01/08/2022 07:39:11
			1	0.0600			01/08/2022 07:39:11
Control 1		SER	Mean	0.0410	135		01/08/2022 07:51:13
			1	0.0410	135		01/08/2022 07:51:13

ALT				Units		U/L	
Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.0010			01/08/2022 07:36:55
			1	0.0010			01/08/2022 07:36:55
Calibrator 1		SER	Mean	0.0325	87	2761.8274	01/08/2022 07:39:56
			1	0.0325			01/08/2022 07:39:56
Control 1		SER	Mean	0.0155	40		01/08/2022 07:42:57
			1	0.0155	40		01/08/2022 07:42:57

AST				Units		U/L	
Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.0014			01/08/2022 07:37:10
			1	0.0014			01/08/2022 07:37:10
Calibrator 1		SER	Mean	0.0485	125	2652.0893	01/08/2022 07:39:41
			1	0.0485			01/08/2022 07:39:41
Control 1		SER	Mean	0.0220	55		01/08/2022 07:42:42
			1	0.0220	55		01/08/2022 07:42:42

BILIRUBIN DIRECT				Units		mg/dL	
Class	Code	Type	Replicate	Abs	Conc.	Factor	Date

Current Results Report by Test

01/08/2022 0'

Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.0594			01/08/20
			1	0.0594			01/08/20
Calibrator 1	SER		Mean	0.0557	0.98	Out	01/08/20
			1	0.0557			01/08/20
Control 1	SER		Mean	0.0838	0.6		01/08/20
			1	0.0838	0.6		01/08/20

BILIRUBIN TOTAL

Units

mg/dL

Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
Blank			Mean	0.0012			01/08/20
			1	0.0012 *			01/08/20
Calibrator 1	SER		Mean	0.3298	3.5	10.6512	01/08/20
			1	0.3298			01/08/20
Control 1	SER		Mean	0.2270	2.4		01/08/20
			1	0.2270	2.4		01/08/20

CHOLESTEROL

Units

mg/dL

Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
-------	------	------	-----------	-----	-------	--------	------

Blank		Mean	0.0871			01/08/20
		1	0.0871			01/08/20

Calibrator 1	SER	Mean	0.3934	203	662.6579	01/08/20
		1	0.3934			01/08/20

Control 1	SER	Mean	0.3557	178		01/08/20
		1	0.3557	178		01/08/20

CREATININE

Units

mg/dL

Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
-------	------	------	-----------	-----	-------	--------	------

Blank		Mean	0.0052			01/08/20
		1	0.0052			01/08/20

Calibrator 1	SER	Mean	0.0821	3.10	40.3224	01/08/20
		1	0.0821			01/08/20

Control 1	SER	Mean	0.0414	1.46		01/08/20
		1	0.0414	1.46		01/08/20

GLUCOSE

Units

mg/dL

Class	Code	Type	Replicate	Abs	Conc.	Factor	Date
-------	------	------	-----------	-----	-------	--------	------

Blank		Mean	0.1040			01/08/20
		1	0.1040 *			01/08/20

Calibrator 1	SER	Mean	0.6520	179	326.6420	01/08/20
--------------	-----	------	--------	-----	----------	----------

1 0.6520 01/08/20

Control 1 SER Mean 0.3845 92 01/08/20

Current Results Report by Test 01/08/20

1 0.3845 92 01

PROTEIN TOTAL Units **g/dL**

Class	Code	Type	Replicate	Abs	Conc.	Factor
-------	------	------	-----------	-----	-------	--------

Blank Mean -0.0773 01

1 -0.0773 01

Calibrator 1 SER Mean 0.1112 6.10 32.3685 01

1 0.1112 01

Control 1 SER Mean 0.0920 5.48 01

1 0.0920 5.48 01

TRIGLYCERIDES Units **mg/dL**

Class	Code	Type	Replicate	Abs	Conc.	Factor
-------	------	------	-----------	-----	-------	--------

Blank		Mean	0.0752			0!
		1	0.0752			0!

Calibrator 1	SER	Mean	0.1890	119	1045.6401	0!
		1	0.1890			0!

Control 1	SER	Mean	0.1024	48		0!
		1	0.1024	48		0!

UREA UV					Units	mg/dL
Class	Code	Type	Replicate	Abs	Conc.	Factor
Blank		Mean		0.0032		0!
		1		0.0032		0!
Calibrator 1	SER	Mean		0.1278	79	634.0168
		1		0.1278		0!
Control 1	SER	Mean		0.0931	57	0!
		1		0.0931	57	0!
