

ROOTS METROLOGY & TESTING LABORATORY

(A Division of Roots Industries India Limited)





156, Bommasandra Industrial Area, Bommasandra, Jigani Link Road,
Anekal Taluk, Bangalore - 560 099, Mobile : 97900 14066, E-mail : blrmetlab@rootsemail.com

CALIBRATION CERTIFICATE

	9 9	ULR-CC278221030001783F
Certificate No.: BRMTL/01/521100006-A1-A	Date of Issue	: 03-04-2021
Name and address of the Customer	Date of Receipt of Item	: 02/04/2021
M/s. Alpha Lifecare	Date of Calibration	: 02/04/2021
No 17, Bashyam Street,	Calibration Due	: 01/04/2022
Manjakuppam, Cuddalore - 607001	(As Per Customer Request)	
8	Customer Reference	: Mail Confirm # 31.03.2021

1. DESCRIPTION OF DEVICE UNDER CALIBRATION (DUC)

Name of the DUC : ELECTRICAL SAFETY

(Semi Auto Analyser)

Receiving Condition of DUC

: Satisfactory

Identification

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Reference Document

: As Per Manufacturer

SI.No.

: C170181

Specification

Make

: Erba Mannheim

Cal. Procedure Ref. No.

Environmental Condition

: BRMTL/WI/418

Model Location : Chem 7 : Biochemistry

Calibrated at

: Temp: 24.5°C/RH: 58%

: Onsite

8

2. DETAILS OF MASTER USED

Standard Instrument Used	Make / Model	SL. No. / ID No.	Traceable To / Certificate No.	Validity
Electrical Safety Analyzer	Rigel Medical / 288+	48K-0413 BRMTL-315	ACCS201093	12.09.2021

The Masters are traceable to National / International standards as per ISO/IEC 17025

FIELD - MEDICAL DEVICES

Calibration Results

3. VISUAL INSPECTION

OT N		Rema	Remarks	
SL. No.	Description	Pass	Fail	
1	Device Clean and Decontaminated	√		
2	Physical damage	√		
3	Power cord check	. V		
4	Display intensity adequate for day time use	\		
5	Alarm Function	V		

CALIBRATED BY (CALIBRATION ENGINEER)	AUTHORIZED BY (QM/TM/DY.TM/Sr Er)		
DHANARAJA V	KAMALAKANNAN R	This Report refers only to the sample submitted and may not be reproduced in full or in part, without written permission from Quality Manager Roots Metrology & Testing Laboratory, Bangalore.	01 of 02

* NEXT CALIBRATION DUE AS PER CUSTOMER'S PLAN AND REQUIREMENT



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CALIBRATION CERTIFICATE

	•		ULR-	CC278221030001	783F
Certific	ate No. : BRMTL/01/52110	0006-A1-A	*		
		30			
4. ELEC	CTRICAL SAFETY		W: 8		4
4.1 INS	ULATION TEST				
SL. NO.	Specification	Measured Value (MΩ)	Allowable Limit (M Ω)	Uncertainty ± (%)	Remarks
1	Mains to Protective Earth	>100	>2	8.1	Pass
4.2 EAF	RTH LEAKAGE	3		*	
SL. NO.	Specification	Measured Value (μA)	Allowable Limit (μΑ)	Uncertainty ± (%)	Remarks
1	Normal Condition	88	<5000	8:21	Pass
2	Open Neutral (SFC*)	158	<10000	8.21	Pass
4.3 ENC	CLOSURE LEAKAGE				
SL. NO.	Specification	Measured Value (μA)	Allowable Limit (μΑ)	Uncertainty ± (%)	Remarks
1	Normal Condition	25	<100	8.21	Pass
2	Open Neutral (SFC*)	57	<500	8.21	Pass
		FIRM	BAD PLANT		
5. REM	ARKS	FR GR			
1 The c	alibration results reported	corresponds to the r	particular item mentione	d above.	
	16				
2. This	Certificate refers to the value	ues obtained at the t	ime of calibration and ur	ider the above sta	atea conamor
3. All C	alibrations are done in SI u	nits and are traceab	le to National/Internatio	nal standards as	required in
	C/17025.				
	ficate will not be reproduce				
5. The r	eported uncertainty of mea	surement is stated a	is the standard uncertain	ty in measureme	nt multiplied
	overage factor k=2, which	for a normal distrib	ution corresponds to a co	verage probabili	ty 95.45%.
6. SFC	- Single Fault Condition.				

CALIBRATED BY (CALIBRATION ENGINEER) AUTHORIZE		AUTHORIZED BY	ED BY (QM/TM/DY.TM/Sr.Er) This Report refers only to submitted and may not be repr				
DHA	NARĀJĀ V	KAMAE	AKANNAN R	or in part, without written per Quality Manager Roots M Testing Laboratory, Bangalore	rmission from Metrology &	02 of 02	
Calibration	White : Calibrated	1	Green: Accepted	INEX.		CALIBRATION DUE AS	
Label / Status :	Yellow: Limited use (Refer report)		Red : Rejected-0	Out of use (Refer report)	PER CUS REQUIR	TOMERS PLAN AND EMENT	



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Manager and the case are			Date of	Date of Receipt of Item : 02/04/2021			
M/s. Alpha Lifecare		Date of	Date of Calibration : 02/04/2021				
No 17, Bashyam Street,		Calibrat	ion Due		: 01/04/2022	175	
Manjakuppam, Cuddalore - 607001		(As Per	(As Per Customer Request)				
			Custome	Customer Reference : Mail Confirm # 31.03.20			
1 DESCE	IDTION OF DE	INCRIBED OUT					
Name of t	45: No. 200	VICE UNDER CALI	I DESCRIPTION OF THE PROPERTY		-		
		: ELECTRICAL SAFI (Semi Auto Analyser	Doggrain	Receiving Condition of DUC : Satisfactory			
Identifica	dentification :		Reference	ce Documen	t	: As Per Manufa	acturer
SI.No.	No. : C170181			Specification			
Make	Make : Erba Mannheim		Cal. Pro	cedure Ref.	No.	: BRMTL/WI/4	18
Model		: Chem 7	Environ	mental Con	dition	: Temp : 24.5°C	C/RH:58%
Location		: Biochemistry	Calibrat	ed at		: Onsite	
		and the second s		200	195		
	LS OF MASTER	USED					
Standar	rd Instrument Used	Make / Mod	el SL. No	o. / ID No.		Γο / Certificate No.	Validit
Electrical	Safety Analyzer	Rigel Medical /	Rigel Medical / 288+ 48K-0413 . BRMTL-315		ACC	ACCS201093 12.09.200	
The Maste	ers are traceable	to National / Internat	ional standards as p	er ISO/IEC	17025		8
	MEDICAL DEVI					(e	
			Calibration Resu	ilts			
3. ELECT	RICAL SAFETY						
3.1 LOAD	TEST (MAINS	VOLTAGE)			- 17/8		
SL. No.	Specification	on N	Acasured Value (V)		Allowable	Rema	arks
				·	Limit (V)	Pass	Fail
1	Live to Neut		229	-	230±10%	√,	
2	Neutral to Ea		0	¥.	<3	√ .	
3	Live to Eart	h	229		230±10%	√	
(DESC.	NECO .						
I. REMAR			-				
A TOTAL CO.	bration results re	ported corresponds to					-
						THE RES	
2. This Cer	rtificate refers to						ns.
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2. This Cer 3. All Calil	rtificate refers to orations are done						ns.
2. This Cer 3. All Calil SO/IEC/1	rtificate refers to prations are done 7025.	in SI units and are tr	aceable to National/	Internation	al standards	as required in	ns.
2. This Cer 3. All Calil SO/IEC/1	rtificate refers to orations are done	in SI units and are tr		Internation This Report	al standards	as required in	ns.
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2. This Cer 3. All Calib SO/IEC/1 IBRATED BY	rtificate refers to prations are done 7025. (CALIBRATION ENG.)	in SI units and are tr	BY (QM/TM/DY.TM/Sr.Er)	This Report submitted and or in part, wi Quality Ma	refers only to may not be rep	o the sample produced in full permission from Metrology & e.	
2. This Cer 3. All Calib SO/IEC/1 IBRATED BY	rtificate refers to prations are done 7025.	in SI units and are trees. AUTHORIZED I	BY (QM/TM/DY.TM/Sr.Er)	This Report submitted and or in part, wi Quality Ma	refers only to may not be repthout written ponager. Roots	o the sample produced in full permission from Metrology & e.	ns. 01 of 01
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REQUIREMENT