

# **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

	CILDIDIC	ATION CERTIFICA	
			ULR-CC278221030001783F
Certificate No.: BRMTL/0	1/521100006-A1-A	Date of Issue	: 03-04-2021
Name and address of the C	ustomer	Date of Receipt of Ite	m : 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 Re	quest)
		Customer Reference	: Mail Confirm # 31.03.202
1. DESCRIPTION OF DEV	ICE UNDER CALIBRATIO	ON (DUC)	
Name of the DUC	: ELECTRICAL SAFETY (Semi Auto Analyser)	Receiving Condition of	of DUC : Satisfactory
•			
Identification	:	Reference Document	: As Per Manufacturer
Sl.No.	: C170181		Specification
Make	: Erba Mannheim	Cal. Procedure Ref. N	o. : BRMTL/WI/418
Model	: Chem 7	Environmental Condi	: Temp: 24.5°C/RH: 58%
Location	: Biochemistry	Calibrated at	: Onsite
* .			
2. DETAILS OF MASTER	ÜSED	A SPEN NO P	
Standard Instrument Used	Make / Model	SL. No. / ID No.	Traceable To / Certificate No.  Validit
Electrical Safety Analyzer	Rigel Medical / 288+	48K-0413 BRMTL-315	ACCS201093 12.09.202

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

#### FIELD - MEDICAL DEVICES

#### Calibration Results

#### 3. VISUAL INSPECTION

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

CALIBRATED BY (CALIBRATION ENGINEER)	AUTHORIZED BY (QM/TM/DY.TM/Sr.Er)		
<b>D</b> t	JD .	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.	
DHANARAJA V	KAMALAKANNAN R		01 of 02



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# **CALIBRATION CERTIFICATE**

	*	·	ULR-	CC278221030001	783F
Certifica	ate No. : BRMTL/01/52110	0006-A1-A			
4. ELEC	CTRICAL SAFETY		7 ×		
4.1 INSU	JLATION TEST				
SL. NO.	Specification	Measured Value (MΩ)	Allowable Limit (M $\Omega$ )	Uncertainty ± (%)	Remarks
1	Mains to Protective Earth	>100	>2	8.1	Pass
4.2 EAR	TH LEAKAGE	1			
SL. NO.	Specification	Measured Value (μA)	Allowable Limit (μA)	Uncertainty ± (%)	Remarks
1	Normal Condition	88	<5000	8.21	Pass
2	Open Neutral (SFC*)	158	<10000	8.21	Pass
4.3 ENC	LOSURE LEAKAGE				
SL. NO.	Specification	Measured Value (μA)	Allowable Limit (μA)	Uncertainty ± (%)	Remarks
1	Normal Condition	25	<100	8.21	Pass
2	Open Neutral (SFC*)	57	<500	8.21	Pass
		THE W	AND PARK		
5. REM	ARKS	MA	1		
1. The c	alibration results reported	corresponds to the p	particular item mentione	d above.	
2. This (	Certificate refers to the valu	ues obtained at the t	ime of calibration and ur	ider the above sta	ated conditions
ISO/IEC	alibrations are done in SI u C/17025.				
	ficate will not be reproduce				
	eported uncertainty of mea overage factor k=2, which i				
AND DESCRIPTION OF THE PARTY OF	Single Fault Condition.				17. 4

CALIBRATED BY	(CALIBRATION ENGINEER)	AUTHORIZED BY	(QM/TM/DY.TM/Sr_Er)	This Report refers only to the submitted and may not be reprodu		
DHA	NARAJA V	кама	AKANNAN R	or in part, without written permi Quality Manager Roots Met Testing Laboratory, Bangalore.	ssion from	02 of 02
Calibration	White : Calibrated		Green : Accepted - Valid for use		* NEXT CALIBRATION DUE AS	
Label / Status :	Yellow: Limited use (Ret	fer report)	Red : Rejected-	Out of use (Refer report)		STOMERS PLANAND EMENT



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### **CALIBRATION CERTIFICATE**

Section 1975 and 1975	e No. : BRMTL	Service Policy Consultations	006-A1-B	Date of Issue		: 03-04-2021		
Name and address of the Customer		Date of Receipt of						
M/s. Alph	a Lifecare			Date of Calibration		: 02/04/2021		
No 17, Bas	shyam Street,			Calibration Due		: 01/04/2022		
Manjakup	opam, Cuddalor	e - 607001		(As Per Customer 1	Request)			
				Customer Reference	e	: Mail Confirn	1 # 31.03.202	
1 DECCD	IDTION OF DE							
Name of th			DER CALIBRATIO	ON (DUC)				
			RICAL SAFETY uto Analyser)	Receiving Condition of DUC : Satisfactory				
Identificat	tion	:		Reference Document : As Per Manufacture			acturer	
Sl.No.		: C170181				Specification		
Make		: Erba Ma	nnheim	Cal. Procedure Ref.	No.	: BRMTL/WI/4	18	
Model		: Chem 7	9	Environmental Con	dition	: Temp: 24.5°C/RH: 58%		
Location		: Biochem	istry	Calibrated at		: Onsite		
aum aneromete av umante		•			-			
	LS OF MASTEI	RUSED						
	d Instrument Used	1	Make / Model	SL. No. / ID No.		To / Certificate No.	Validit	
Electrical S	Safety Analyzer	Rige	l Medical / 288+	48K-0413 . BRMTL-315	1 4000000000		12.09.202	
	EDICAL DEV		it / International Se	andards as per ISO/IEC	. 17025			
r icidio - ivi	IEDICAL DEV	ICES	Coli	bration Results				
3. ELECTI	RICAL SAFET	Y	Can	oracion results				
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		n.		3			
3.1 LOAD	IESI (MAINS							
3.1 LOAD	A 140 DAYS AND A 140			III I dh	Allowable	Rem	arks	
SL. No.	Specificati			ed Value (V)	Allowable Limit (V)	Rem:	arks Fail	
	A 140 DAYS AND A 140	ion	Measure	ed Value (V)			2010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
SL. No.	Specificati	ion	Measure	100000000000000000000000000000000000000	Limit (V)	Pass	2010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
SL. No.	Specificati	ion itral arth	Measure	229	Limit (V) 230±10%	Pass √	2010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
SL. No.  1 2 3	Specificati Live to Neu Neutral to E Live to Ear	ion itral arth	Measure	229	Limit (V) 230±10% <3	Pass  √  √	2010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
SL. No.  1 2 3	Specificati Live to Neu Neutral to E Live to Ear	ion atral arth rth	Measure	229 0 229	Limit (V) 230±10% <3 230±10%	Pass  √  √	2010-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
SL. No.  1 2 3	Specificati Live to Neu Neutral to E Live to Ear	ion atral arth rth	Measure	229	Limit (V) 230±10% <3 230±10%	Pass  √  √	2010-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	
SL. No.  1 2 3 4. REMAR 1. The calib	Specificati Live to Neu Neutral to E Live to Ear	ion  attral arth  rth	Measure rresponds to the pa	229 0 229	Limit (V) 230±10% <3 230±10%	Pass  √  √  √	Fail	
SL. No.  1 2 3 4. REMAR 1. The calib 2. This Cer 3. All Calib	Specificati Live to Neu Neutral to E Live to Ear  KS  pration results retificate refers to prations are don	ion  arth  rth  reported co	Measure rresponds to the pa	229 0 229 articular item mentioned	Limit (V) 230±10% <3 230±10%  l above. der the abov	Pass  √  √  √  e stated condition	Fail	
SL. No.  1 2 3 4. REMAR 1. The calib	Specificati Live to Neu Neutral to E Live to Ear  KS  pration results retificate refers to prations are don	ion  arth  rth  reported co	Measure rresponds to the pa	229  229  articular item mentioned the of calibration and un	Limit (V) 230±10% <3 230±10%  l above. der the abov	Pass  √  √  √  e stated condition	Fail	
SL. No.  1 2 3 4. REMAR 6. The calib 7. This Cer 8. All Calib 8. SO/IEC/17	Specificati Live to Neu Neutral to E Live to Ear  KS  Dration results retificate refers to prations are don 7025.	ion  arth  rth  reported co of the values e in SI unit	Measure rresponds to the pa s obtained at the tire is and are traceable	229  229  articular item mentioned ne of calibration and une to National/Internation	Limit (V) 230±10% <3 230±10%  I above. der the above all standards	Pass  \[  \lambda \tau \]  e stated condition as required in	Fail	
SL. No.  1 2 3 4. REMAR 6. The calib 7. This Cer 8. All Calib 8. SO/IEC/17	Specificati Live to Neu Neutral to E Live to Ear  KS  pration results retificate refers to prations are don	ion  arth  rth  reported co of the values e in SI unit	Measure rresponds to the pa	229 0 229 articular item mentioned ne of calibration and un to National/Internation	Limit (V) 230±10% <3 230±10%  I above. der the above all standards refers only	Pass  \[  \lambda \\  \lambda \\ \text{v} \]  e stated condition as required in to the sample to the	Fail	
SL. No.  1 2 3 4. REMAR 6. The calib 7. This Cer 8. All Calib 8. SO/IEC/17	Specificati Live to Neu Neutral to E Live to Ear  KS  Dration results retificate refers to prations are don 7025.	ion  arth  rth  reported co of the values e in SI unit	Measure rresponds to the pa s obtained at the tire is and are traceable	0 229  articular item mentioned ne of calibration and un to National/Internation  TM/DY.TM/Sr.Er) This Report submitted an	Limit (V) 230±10% <3 230±10%  l above. der the above all standards refers only d may not be rej	Pass  \[  \lambda \tau \]  e stated condition as required in	Fail	
SL. No.  1 2 3 4. REMAR 6. The calib 7. This Cer 8. All Calib 8. SO/IEC/17	Specificati Live to Neu Neutral to E Live to Ear  KS  Dration results retificate refers to prations are don 7025.	ion  arth  rth  reported co of the values e in SI unit	Measure rresponds to the pa s obtained at the tire is and are traceable	229  Orticular item mentioned me of calibration and under to National/Internation  TM/DY.TM/Sr.Er)  This Report submitted an or in part, w. Quality Ma	Limit (V) 230±10% <3 230±10%  I above.  der the above all standards  refers only d may not be rejethout written p nager Roots	Pass  V  V  e stated condition as required in to the sample produced in full crmission from Metrology &	Fail	
SL. No.  1 2 3 4. REMAR 6. The calib 7. This Cer 8. All Calib 8. SO/IEC/17	Specificati Live to Neu Neutral to E Live to Ear  KS  Dration results retificate refers to orations are don 7025.  (CALIBRATION ENC	ion  arth  rth  reported co of the values e in SI unit	Measure rresponds to the pass obtained at the times and are traceable of the traceable of t	229  Orticular item mentioned me of calibration and under to National/Internation  TM/DY.TM/Sr.Er)  This Report submitted an or in part, w. Quality Ma	Limit (V) 230±10% <3 230±10%  l above. der the above all standards refers only d may not be rejithout written p	Pass  \[ \sqrt{1} \lambda \\ \tau \\ \	Fail	

Red : Rejected-Out of use (Refer report)

PER CUSTOMERS PLAN AND

REQUIREMENT

FORM#BRMTL/FT/61:10.04.2019

Yellow: Limited use (Refer report)

Label / Status: