

Date: 20/12/2023

## CURRENT CALIBRATION CERTIFICATE OF A15C

CUSTOMER NAME -GURU NANAK LAB ROPAR

Serial Number = 83105C0467

Firmware = 6.16

A15 Configuration checksum value = 0xEB38

A15 Configuration checksum size = 988

Rotor Temperature = 36.98

Prove Temperature = 39.8

System Liquid Scale Sensivity = 148

Waste Scale Sensivity = 182

Level Detection Improved Rack = 1

Sensitivity: (Tube Rack) = 53

Sensitivity: (Pediatric Rack) = 140

Sensitivity: (Out Fridge Reagent Rack) = 16

Sensitivity: (Fridge Reagent Rack) = 50

X - Origin = 55

Y - Origin = 244

Z - Origin = 430

X - Washing Station = 383

Y - Washing Station = 77

Z - Washing Station = 540

X - Reactions Rotor = 107

Y - Reactions Rotor = 1029

Z - Reactions Rotor = 600

Tray XYZ- Pediatric Rack

X1 (Rack3, 4) = 1636, 1085

X2 (Rack3, 4) = 1627, 1070

Y1 (Rack3, 4) = 83, 82

Y2 (Rack3, 4) = 1430, 1430

Z1 (Rack3, 4) = 723, 722

Z2 (Rack3, 4) = 687, 694

Z Relation Pediatric-Tube = 487

Tray XYZ- Reagent Rack

X1 (Rack3, 4) = 1376, 823

X2 (Rack3, 4) = 1371, 824

Y1 (Rack3, 4) = 94, 92

Y2 (Rack3, 4) = 1424, 1421

Z1 (Rack3, 4) = 1196, 1195

Z2 (Rack3, 4) = 1160, 1162

Tray XYZ- Fridge

X1 (Rack1, 2) = 2563, 2058

X2 (Rack1, 2) = 2554, 2064

Y1 (Rack1, 2) = 38, 37

Y2 (Rack1, 2) = 1378, 1374

Z1 (Rack1, 2) = 1226, 1226

Z2 (Rack1, 2) = 1215, 1212

Rotor Position correction regarding to the dispensation point = 103

Rotor Position correction regarding to the optical system = -5

Filters wheel correction = -1

Filter 0 = 0 (nm) IT = 10.2 (ms) Ref. IT = 10.2 (ms)

Filter 1 = 340 (nm) IT = 364.5 (ms) Ref. IT = 325.6 (ms)

# BioSystems

human - centred biotech

Registered office:

BioSystems Diagnostics Pvt. Ltd.,  
A4, SIPCOT Industrial Park, Irungattukottai,  
Tamil Nadu - 602105, India  
Ph: +91 -44 - 30341911 / 12/ 13/14  
Email: support@biosystems.in  
CIN - U29297TN2003PTC051492

Filter 2 = 405 (nm) IT = 81.9 (ms) Ref. IT = 75.8 (ms)  
Filter 3 = 505 (nm) IT = 75.8 (ms) Ref. IT = 72.2 (ms)  
Filter 4 = 535 (nm) IT = 64 (ms) Ref. IT = 61.4 (ms)  
Filter 5 = 560 (nm) IT = 76.8 (ms) Ref. IT = 74.2 (ms)  
Filter 6 = 600 (nm) IT = 86.5 (ms) Ref. IT = 84 (ms)  
Filter 7 = 635 (nm) IT = 68.1 (ms) Ref. IT = 66.6 (ms)  
Filter 8 = 670 (nm) IT = 91.6 (ms) Ref. IT = 90.6 (ms)  
Filter 9 = 0 (nm) IT = 10.2 (ms) Ref. IT = 10.2 (ms)  
X - axis = 206349 (x1000 steps)  
Y - axis = 118099 (x1000 steps)  
Z - axis = 334007 (x1000 steps)  
Reaction Rotor = 22291 (x10000 steps)  
Filter Wheel = 701379 (x100 steps)  
Dispensing Pump = 469262 (x10000 steps)  
Membrane pumps = 74198 (Commutation)  
3-way electrovalve = 346546 (Commutation)  
Lamp = 734 (Hours)  
Biochemical preparation = 17194 (Cicles)  
Turbidimetry preparation = 5790 (Cicles)  
Bireagent Biochemical preparation = 1732 (Cicles)  
Bireagent Turbidimetry preparation = 1015 (Cicles)  
Predilution = 0 (Cicles)  
Start/End Washings = 5984 (Cicles)  
WS Washings = 16792 (Cicles)  
H2O Washings = 2003 (Cicles)  
New Rotor = 234 (Rotors)  
Contaminations detected = 162 Contaminations detected

Next Calibration due on - 19/12/2024

For BIOSYSTEMS DIAGNOSTICS PVT. LTD.

S  
SENTHIL

Digitally signed by S SENTHIL  
DN: cn=S SENTHIL, c=IN,  
o=PERSONAL,  
email=SENTHIL@BIOSYSTEMS.IN  
Date: 2023.12.20 17:18:57 +05'30'

AUTHORISED SIGNATORY

# SERVICE REPORT

# BioSystems

Report No. **56286**

Customer Name: Gunda Mumuk Lab

Address: Ropar Punjab

Call Date: <u>11-12-23</u>		Call Time: <u>9:00 AM</u>			
Instrument <u>A-15 C</u>		Sr. No. <u>P3105C0467</u>			
User SW Ver. <u>5.2.4</u>	Ser SW Ver. <u>NA</u>	FW Ver. <u>6.16</u>			
Instrument Status	W	AMC	CMC	RR	NAMC
Call Status	BD	PM	APPL	RV	

Contact person: Dr. J.S. Sandhu

Call Reason:

Preventive Maintenance

Observations:

Baseline error

Corrective Action / Remarks:

Clean the instrument. Check data printing, check photometry. Run control

Part Replacement and Repair Estimate Approval

Final Instrument Status

- Following parts have been replaced
- Following parts needs to be replaced. Please approve to proceed repair

Instrument is working.

Sr. No.	Part Description	Part No.	Cost	Qty.	Total
		<u>NA</u>			
Travel: <u>Hrs. 2 hr</u>		Parts			
Origin: <u>Chandigarh</u>		Repair and Servicing			
Destination: <u>Ropar</u>		Total Servicing Charges			
Service Ending Date: <u>11-12-23</u>		Service Ending Time: <u>6:00 PM</u>			

Customer Comments :

This is to certify that the Service Engineer has carried out necessary part replacement and services of the instrument. I have found the instrument working satisfactory

Received with thanks Rs. NA  
 by Cheque / D.D. No. NA  
 against Total Service charge.  
 Name: Amritpal Singh Sign: [Signature]

Sign: [Signature]

Name: Amritpal Singh

ISO 13485

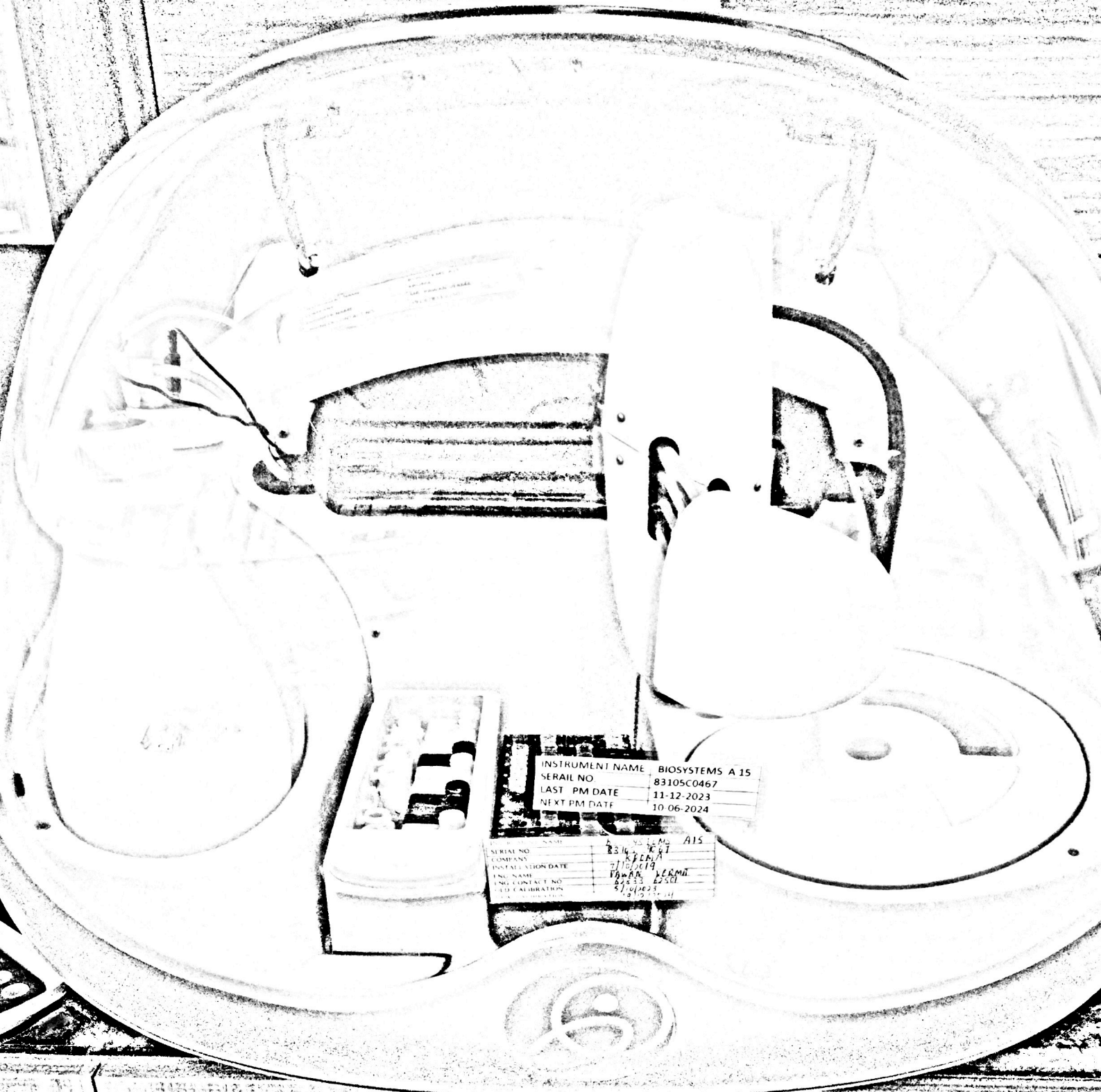
Rev. 06 / ED: 15-05-21



Rubber Stamp

(Customer's Copy)

# BIOCHEMISTRY



INSTRUMENT NAME	BIOSYSTEMS A 15
SERIAL NO	83105C0467
LAST PM DATE	11-12-2023
NEXT PM DATE	10-06-2024
SERIAL NO	83105C0467
COMPANY	KEPRA
INSTALLATION DATE	11/12/2023
USER NAME	VANAN KERMU
USER CONTACT NO	85533 62501
LAST CALIBRATION	12/12/23