

Call: 0471 - 2982488 / 9400 101 488 | Email: labxmedicalsistemas@labx.in



## CALIBRATION CERTIFICATE

<b>Hospital Name</b>	:	Nirnaya Diagnostics Centre, Trivandrum
<b>Address</b>	:	Mainroad, Kunnathukal, Karakonam P O, Trivandrum
<b>Instrument Name</b>	:	Microlab 300LX
<b>Serial No.</b>	:	16-5585
<b>Department</b>	:	Laboratory
<b>Calibration Date</b>	:	10/11/2021
<b>Next Calibration Due</b>	:	10/11/2022
<b>Appearance</b>	:	Clean

**Instrument Condition:**

- Room is Air Conditioned  Yes  No
- Power Supply Earthing less than 5 V  Yes  No
- Room Working Environment is Good  Yes  No

**Initial check : Switch On ML300**

- Instrument is Initialising properly  Yes  No
- Display is showing all Characters  Yes  No
- Inlet and Outlet Valves working during aspiration  Yes  No
- Bellows pump is moving to Home position  Yes  No
- Start Up the analyser software  Yes  No
- Lamp is Glowing  Yes  No
- Key pad is working  Yes  No
- Aspiration Lever is working  Yes  No
- Temperature of Peltier is showing 37 degrees  Yes  No

**Validation: Performing Filter Check**

Select Filter	Range in Abs	Abs Value	Replacement Needed	
Filter 340nm	1.7 to 2.6	1.6	Yes	No
Filter 405nm	1.2 to 2.6	1.7	Yes	No
Filter 505nm	0.8 to 2.6	1.8	Yes	No
Filter 546nm	0.8 to 2.6	1.5	Yes	No
Filter 578nm	0.6 to 2.6	0.8	Yes	No
Filter 620nm	0.6 to 2.6	1.1	Yes	No

**Must Stock Parts List**

- Tubing Assay
- Source Lamp
- Waste Tube

**Recommended for Replacement**

- Yes  No
- Yes  No
- Yes  No

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**Performance Check:**

- |  |     |
|--|-----|
| <input checked="" type="checkbox"/> Aspiration Volume during Flush mode: 1500 µl | Yes |
| <input checked="" type="checkbox"/> Blanking is proper during test:              | Yes |
| <input checked="" type="checkbox"/> Results are Satisfactory                     | Yes |

**Remarks:**

Instrument is calibrated and working in good condition. Tested Samples and found results are satisfactory

This Calibration is valid from 10-11-2021 to 09-11-2022 .

Next Calibration is on 10-11-2022.

**Technical Acceptance**



**Amal V K**  
FSE – Elitech Instruments  
LabX Medical Systems



**BOSE E. K, DMLT**  
Lab Technician  
Nimaya Laboratory



**INSTALLATION QUALIFICATION**

CUSTOMER NAME	Nirnaya Diagnostics Centre - Trivandrum
CUSTOMER ADDRESS	Main Road, Kunnathukal, Karakonam P.O, Thiruvananthapuram
INSTRUMENT NAME	Microlab 300 LX
INSTRUMENT SERIAL NUMBER	16-5585
INSTALLATION DATE	09-11-2016

**INSTALLATION, OPERATIONAL AND PERFORMANCE QUALIFICATION**

Transport damages  
 Package damaged  Yes  No  
 Parts damaged

If yes, please specify:  Yes  No

**Initial check:**

Parts missing?

Part Number	Part Description

(Check against packing list)



Yes → Please specify parts  
 No

\* Please return parts, including a malfunction report.

- Line Voltage / Main Supply: 210 – 270V:
- Earthing Voltage (0-5V):
- Room Air conditioned: Yes / No
- Stabiliser / UPS      Brand:      Rating:

(We recommend connecting CA620 to CVT or UPS of 0.5 KVA to 1 KVA)



-----END OF QUALIFICATION-----

The customer confirms that the conditions required to ensure the proper functioning of the device according to the supplier's recommendations have been inspected and qualified.			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Customer's comments		Installer's comments	
		Successfully verified all installation criteria as per manufacturer recommendation.	
Customer (Name and Position)	Signature	Installer (Name and Position)	Signature
E. K. Bose Owner		Amal V K Field Service Engineer LabX Medical Systems	
This document is prepared and signed in duplicate. Each page must be initialled by the installer.			

**OPERATIONAL QUALIFICATION**

- Remove all the Transpiration accessories / Clips / Packing.
- Connect the Waste Tubing.
- Switch ON the system and check the Display
- Check the initialising process.
- Check the Key pad Keys
- Set System Parameters
- Check Valves and motor in the service Menu.
- Check Aspiration of Liquid by pressing Flush Key. (Should aspirate 1500ul)
- Check Filter wheel movement and Absorbance of each filter. (Check the data sheet)
- Check the Temperature of the Peltier element (Should be 37 degrees)

-----END OF QUALIFICATION-----

The customer confirms that the conditions required to ensure the proper functioning of the device according to the supplier's recommendations have been inspected and qualified.			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
<b>Customer's comments</b>		<b>Installer's comments</b>	
		Successfully verified all operational criteria as per manufacturer recommendation.	
<b>Customer (Name and Position)</b>	<b>Signature</b>	<b>Installer (Name and Position)</b>	<b>Signature</b>
E. C. Bose OWNER		Amal V K Field Service Engineer LabX Medical Systems	
This document is prepared and signed in duplicate. Each page must be initialled by the installer.			

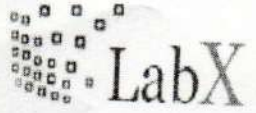
**PERFORMANCE QUALIFICATION**


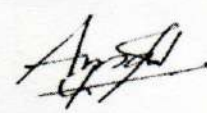
Filter Absorbance

<u>Calibrator</u>	<u>Target Value</u>	<u>Range</u>	<u>Measured Value</u>	<u>Status</u>
340	1.8	1.8 to 2.4	1.7	OK
405	1.2	1.2 to 2.4	1.6	OK
505	0.8	0.80 to 2.4	1.8	OK
546	0.7	0.70 to 2.4	1.5	OK
578	0.6	0.60 to 2.4	0.8	OK
620	0.6	0.60 to 2.4	1.1	OK
Level 1	Target Value	Tolerance	Measured Value	Status
GLU	87.5	12	85	OK
Chol	249	14	248	OK
SGOT	39.3	8	37	OK
SGPT	28.9	6.9	29	OK
CREAT	20.04	0.6	1.99	OK
Level 2	Target Value	Tolerance	Measured Value	Status
GLU	271	31	269	OK
Chol	102	13	104	OK
SGOT	196	24	193	OK
SGPT	98	13	101	OK
CREAT	5.54	0.6	5.67	OK

-----END OF QUALIFICATION-----

**INSTALLATION, OPERATIONAL AND PERFORMANCE QUALIFICATION**



The customer confirms that the conditions required to ensure the proper functioning of the device according to the supplier's recommendations have been inspected and qualified.			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Customer's comments		Installer's comments	
		Successfully verified all the performance criteria as per manufacturer recommendation	
Customer (Name and Position)	Signature	Installer (Name and Position)	Signature
EK. Bose <del>_____</del> Owner		Amal V K Field Service Engineer LabX Medical Systems	
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