

Date: 22nd May. 2024

## Calibration Certificate

This is to certify that following Automated Hematology Analyzer has been calibrated with details as below :

Instrument Model : Sysmex XN-330  
Instrument Serial No. : 14610  
Installed at : Dr. B.Lal Clinical Laboratory, Bharatpur  
Calibrator Lot No. : 41342101  
Expiry : 2024/06/16  
Calibration Done on : 2024/05/22  
Next Calibration Due : On or before 2025/05/21

for Sysmex India Pvt. Ltd.

*justendra*

Authorized Signatory

Encl.:

1. Calibrator Traceability Sheet.

**Sysmex India Pvt. Ltd.**

Unit No 05-07, 4th Floor, Newa Bhakti Knowledge City,  
 Plot No. IT-06, Airoli Knowledge Park, T.T.C. Indl. Area,  
 Airoli, Thane,  
 India, 400708  
 Tel. (+91) 22 6112 6666 Fax. (+91) 22 2577 6790  
 Email. sysmex@sysmex.co.in  
 Web: https://www.sysmex.co.in  
 GST Reg. No: 27AADCS1551J1ZC Co. Reg. No:



CSR No.: WO-100361894  
 Revision No.:

**Customer Service Report**

<b>Customer Name</b>	Dr B Lal Clinical Laboratories Pvt Ltd		
<b>Contact Person</b>	Lalit Mohan		
<b>Installation Date</b>	06/04/2022	<b>Login Date/Time</b>	
<b>Equipment ID</b>	10160975	<b>FSR Name</b>	# Jeetendra
<b>Model</b>	XN-330	<b>From Date/Time</b>	04/05/2024 01:03:49 PM
<b>Serial No.</b>	14610	<b>To Date/Time</b>	04/05/2024 04:15:00 PM
<b>Total Cycle Count</b>	7,474	<b>Case No.</b>	

Defect Analysis	
Issue Code	Cause Code
Issue	Cause
Preventive Maintenance XN-330	Preventive Maintenance XN-330

Action Taken	Action Code	Value Before Adjustment	Value After Adjustment
1. Pre-check: Perform QC analysis with XN-L Check or XN Check at least 2 times	Checked		
2. RBC Detector Block: Open the metal cover of the RBC detector block and clean the internal surfaces with moist paper towel	Cleaned		
3. RBC Detector Block: Perform "Drain Isolation Chamber" in Maintenance Menu of IPU program	Completed		
4. RBC Detector Block: Clean transducer aperture using aperture brush dipped in cellclean	Cleaned		
5. RBC/HGB Mix Chamber: Activate "Drain Reaction Chamber". Dispense 2ml of cellclean auto into the RBC chamber and activate sequence again to drain cellclean. Repeat twice	Completed		
6. WBC Chamber: Activate "Drain Reaction Chamber". Dispense 2ml of cellclean auto into the reaction chambers and activate sequence again to drain cellclean. Repeat twice	Completed		
7. FCM Unit: Check laser current value in "Service Menu" of IPU program [Range: 100mA to 140 mA]	Checked		
8. Vacuum Line: Clean vacuum line using ethanol or methanol (Approx 30ml)	Cleaned		
9. Shut Down: Shut down analyzer before proceeding	Completed		
10. Vacuum Line: Rinse vacuum trap chamber using DI or distilled water	Cleaned		
11. RBC/HGB Mix Chamber: Remove Filter No. 13 below RBC/HGB chamber and flush it with cellclean using syringe	Cleaned		
12. WBC Chamber: Remove Filter No. 13 below WBC reaction chamber and flush it with cellclean using syringe	Cleaned		
13. Waste Chamber: Remove waste chamber and clean the internal surface and the waste sensor with gauze dipped in diluted cellclean.	Cleaned		
14. Waste Chamber: Rinse waste chamber trap chamber with DI or distilled wter	Cleaned		

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Action Taken	Action Code	Value Before Adjustment	Value After Adjustment
15. Waste Chamber: Replace the motorized pinch valve pharmed tubing (Total Length : 150mm) (3 Years or 60K Cycle)	NA		
16. FCM Unit: Clean flowcell using syringe and 3ml of cellclean in a back and forth motion at least 20 times	Cleaned		
17. Piercer: Clean exterior of pipette/piercer using gauze dipped in cellclean	Cleaned		
18. Piercer: Check piercer, replace if it is blunt. Replace piercer. Reset Piercer cycle count if it is replaced (120K Cycles)	Checked		
19. Piercer: Clean rinse cup using cellclean then rinse with DI or distilled water	Cleaned		
20. Piercer: Clean pipette/piercer protector using cellclean then rinse with DI or distilled water	Cleaned		
21. Sheath syringe: Check sheath syringe for leakage. Replace if there is a leak	Checked		
22. Sheath syringe: Remove old grease and lubricate the sheath motor spindle using Kluber L60 (6 Months)	Lubricated		
23. WB pump: Check WB pump for leakage. Replace WB pump if there is a leak	Checked		
24. Sampler: Remove old grease and lubricate the sampler drive unit (XN-530/550) with Grease Molykote (6 Months)	NA		
25. Pneumatic unit: Replace air pump. Reset airpump cycle count if it is replaced (2 Years or 30K Cycles)	Replaced	9742	Replaced because 2years completed
26. Power On: Power on analyzer in service mode and ensure there are no errors. Run auto rinse once and ensure background check pass	Completed		
27. Pneumatic unit: Check 0.06 Mpa pressure from IPU software [Target: $\geq 0.06\text{MPa}$ ]	Checked	0.0612MPa	
28. Pneumatic unit: Check -0.03 Mpa pressure from IPU software [Target: $\geq -0.03\text{MPa}$ ]	Checked	-0.0303MPa	
29. Mechanical Adjustment: Check pipette/piercer position. Adjust if it is out of alignment	Checked		
30. Mechanical Adjustment: Check sampler hand and tube holder position for XN-550. Adjust if it is out of alignment	Checked		
31. Mechanical Adjustment: Check Barcode Reader functionality. Adjust barcode reading position if it is out of alignment. (XN-530/550)	Checked		
32. Electronics Adjustment: Check blood aspiration sensor blank. Adjust if it is out of range [Range: 4800 to 5200]	Checked	5565	4936

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33. Electronics Adjustment: Check blood aspiration sensor span using XN-L Check or XN Check Level 2. Adjust if it is out of range [Range: 12,500 to 13,500]	Checked		
34. Electronics Adjustment: Check RBC Clog Level. Adjust if it is out of range [Range: 99 to 101]	Checked	100	
35. Electronics Adjustment: Check HGB Blank. Adjust if it is out of range [Range: 4800 to 5200]	Checked	5426	4987
36. Operation check: Test the host communication	Completed		
37. Operation check: Perform QC analysis with XN-L Check or XN Check at least 3 times	Checked		
38. Operation check: Perform full backup and copy mmb files to desktop	Completed		
39. General Cleaning: Clean Main Unit covers	Cleaned		
40. General Cleaning: Clean IPU touch panel	Cleaned		
41. General Cleaning: Clean peripheral device (printer, etc.)	Cleaned		
42. General Cleaning: Clean the interior of sampler for XN-550	NA		

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**Remarks****Items Consumed**

Product ID	VPN	Product Description	QTY	UOM
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Name:- # Jeetendra	Acknowledged By : Lalit Mohan
Sign:  <i>jeetendra</i>	Sign :  <i>(L.S) Lalit Mohan</i>
Date: 04/05/2024 04:20:59 PM	Date: 04/05/2024 04:20:59 PM

**Customer Confidential**