



TOSOH INDIA PVT. LTD.

**HLC-723G8 CALIBRATION REPORT (Variant Analysis Mode)**

Customer Name : TATA IMG  
Customer Address : CHAKRATA ROAD, BALLUPUR CHOWK,  
DEHRADUN  
Installation Date : \_\_\_\_\_ Instrument Model : G8  
Instrument Serial No. : 16550912 Firmware Version : 05.29  
Calibration Date : 19 May 2023 Calibration Due Date : 18 Nov 2023  
Sign of Check OK: V Replace: X Adjustment: A  
Repair: ΔR Cleaning: C Grease Up: L

**ANALYZER INFORMATION**

Instrument : HLC 723  
Instrument S/N : 16550912  
Sample Loader S/N : 1633/008  
Needle type  Standard  Side-hole  
AUTO SAVE  YES  NO  
Bar-code  YES  NO

**MEASUREMENT CONDITIONS**

SYSTEM Ver. No. 05.29  
Sample  Whole blood  Centrifuged  Mixed  
FLOW 8.7 Z1-SMP: 2900  
Y1-SMP 3200 Y1-STAT: 4550  
SYS-IN1 140 SYL-IN3: 250

**ALARM SETTING**

Paper-end, condition of printing  Column oven temperature



SAMPLING UNIT

- Rotor-seal (Injection valve)
- Arm (Injection valve, check if loosened or not)
- Rotor-seal (Rotary valve)
- Packing, check leak and worn or not (Syringe-S)
- Dilution port & Needle wash block, clean or not
- Barcode reader, readable without error
- End-marker, detection sensitivity
- Rack-holder, tube-holder & sample sensor position
- Positions between the main body and loader
- Actions of X1, X2, Y2 and Y3 axes, no loosened screw
- Stator-face (Injection valve)
- Sample-loop (Injection valve)
- Round head screws at the coupling (Rotary valve)
- Packing, check leak and worn or not (Syringe-L)
- Leak from O-ring (P/N:017092)
- Sample suction positions
- Position of X1 pitch-sensor
- Actions of Z1 & Y1 axes and SY-S & SY-L
- Needle positions (at sampling, at dilution, at STAT)

Whole blood sample Aspiration check: 4  $\mu$ L

Diluted blood sample Aspiration check: 80  $\mu$ L

DETECTOR

Column oven Temperature: 25<sup>o</sup>C

Allowed: +/- 2

Check noise at buffer changes

Baseline stability

Detector adjustment

Lamp Initial Intensity: OK

Lamp Current Intensity: OK

REF %: OK

PUMP

- Check if the pump cam is not dirty
- Leak from plunger-seal
- Check if the diaphragm and plunger are not worn
- Actions & leak of check-valves (Uptake & Purge)
- Leak from drain-valve
- Suction & line filters clogging
- Pressure (MPa): 0.00 w/o column
- Vacuum condition
- Drain flush
- Valves actions

w/o column 8.01

FLOW FACTOR: 1.04 ml/min

Measured flow: 1.04 ml/min

OTHERS

- Quality of printed letters
- Parameters settings
- AC voltage L-N: 220
- DC voltage 12 (12V)
- Check of Smart Media
- Clean up

N-E: 0  
24 (24V)

L-E: 220  
5 (5V)



RECEIVING INSPECTIONS

CALIB.std. 1: 5.77 % 2. 10.69 %

Calib. factors Y = ( ) X + ( )

CALIB 1, RT A1a: 0.24 A1b: 0.33 F: 0.38

L-A1c: 0.48 S-A1c: 0.59 A0: 0.87

Control assigned values L: 5.1 ±0.3% H: 10.2 ±0.5%

Observed Control values L: 5.0 % H: 10.0 %

Total-Area  700 - 3,000  NG

Chromatogram  Good  NG

Check if all the items on this sheet have been filled out.

REMARKS:

The instrument is working with in specific range. Also instrument is calibrated.

We confirm the above mentioned analyzer is calibrated and working within the specification	
Signature of Engineer	Authorized Customer Signature
Date: <u>19-05-2023</u>	Date: <u>19 May 2023</u>

# Result Report

Record Date: 2023/05/18 15:47:23  
 Barcode: 0001 - 02  
 SampleNo: 05189005  
 CALIB: Y = 1.0000X + 0.0000

Record Date: 2023/05/18 15:45:46  
 Barcode: 0001 - 02  
 SampleNo: 05189004  
 CALIB: Y = 1.0000X + 0.0000

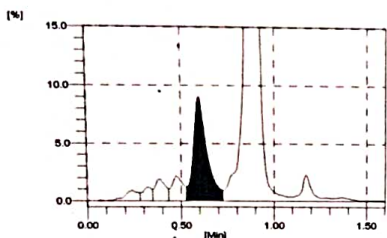
Record Date: 2023/05/18 15:44:09  
 Barcode: 0001 - 01  
 SampleNo: 05189003  
 CALIB: Y = 1.0000X + 0.0000

NAME	%	TIME	AREA
A1A	0.8	0.24	9.58
A1B	0.7	0.32	8.68
F	1.4	0.38	16.87
LA1C+	1.7	0.48	20.30
SA1C	9.0	0.60	109.05
A0	87.8	0.87	1060.26

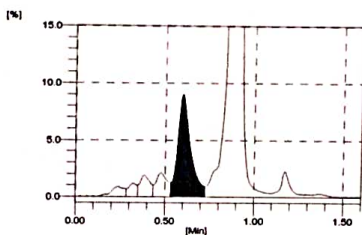
NAME	%	TIME	AREA
A1A	0.8	0.24	9.75
A1B	0.7	0.32	8.35
F	1.4	0.38	16.96
LA1C+	1.7	0.48	20.87
SA1C	9.0	0.60	109.26
A0	87.8	0.88	1068.94

NAME	%	TIME	AREA
A1A	0.7	0.24	8.07
A1B	0.5	0.32	6.29
F	1.2	0.38	14.51
LA1C+	1.3	0.48	16.27
SA1C	4.6	0.59	55.48
A0	92.9	0.87	1119.47

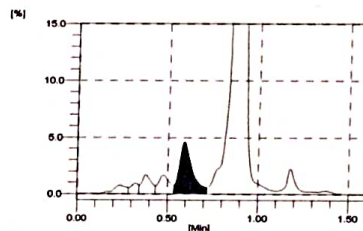
TOTAL AREA 1224.74  
 HbA1C 9.0 %  
 HbA1 10.5 % HbF 1.4 %



TOTAL AREA 1234.13  
 HbA1C 9.0 %  
 HbA1 10.5 % HbF 1.4 %



TOTAL AREA 1220.09  
 HbA1C 4.6 %  
 HbA1 5.8 % HbF 1.2 %



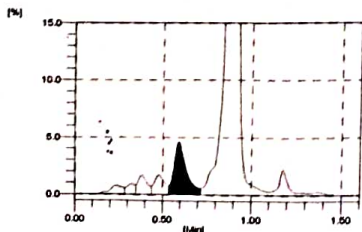
Record Date: 2023/05/18 15:42:33  
 Barcode: 0001 - 01  
 SampleNo: 05189002  
 CALIB: Y = 1.0000X + 0.0000

Record Date: 2023/05/18 15:40:57  
 Barcode: 0001 - 01  
 SampleNo: 05189001  
 CALIB: Y = 1.0000X + 0.0000

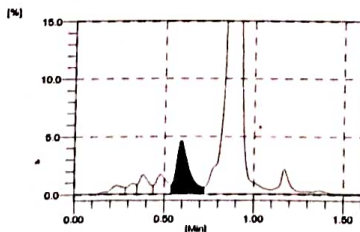
NAME	%	TIME	AREA
A1A	0.7	0.24	8.23
A1B	0.6	0.32	6.70
F	1.2	0.38	14.44
LA1C+	1.3	0.48	16.03
SA1C	4.6	0.59	55.85
A0	92.8	0.87	1120.58

NAME	%	TIME	AREA
A1A	0.7	0.24	8.11
A1B	0.5	0.32	6.19
F	1.2	0.38	13.54
LA1C+	1.4	0.48	15.33
SA1C	4.6	0.59	52.41
A0	92.8	0.87	1053.26

TOTAL AREA 1221.83  
 HbA1C 4.6 %  
 HbA1 5.9 % HbF 1.2 %



TOTAL AREA 1148.84  
 HbA1C 4.6 %  
 HbA1 5.9 % HbF 1.2 %



# Result Report

Record Date: 2023/05/18 15:50:36  
Barcode: 0002 - 02  
SampleNo: 05180036  
CALIB: Y = 1.1390X + 0.5774

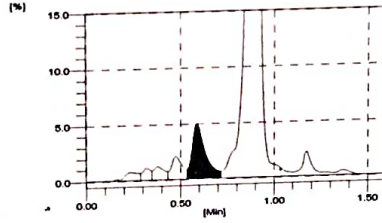
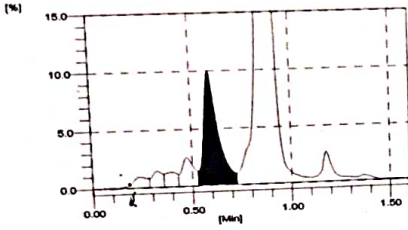
Record Date: 2023/05/18 15:48:59  
Barcode: 0002 - 01  
SampleNo: 05180035  
CALIB: Y = 1.1390X + 0.5774

NAME	%	TIME	AREA
A1A	0.7	0.23	7.86
A1B	0.8	0.32	8.69
F	0.8	0.39	9.00
LA1C+	1.6	0.47	18.05
SA1C	9.9	0.59	90.26
A0	88.7	0.87	976.97

NAME	%	TIME	AREA
A1A	0.6	0.24	7.39
A1B	0.5	0.32	6.26
F	0.8	0.38	9.73
LA1C+	1.3	0.47	16.15
SA1C	5.0	0.59	50.14
A0	93.8	0.87	1199.29

TOTAL AREA 1110.83  
HbA1C 9.9 %  
HbA1 11.4 % HbF 0.8 %

TOTAL AREA 1288.96  
HbA1C 5.0 %  
HbA1 6.1 % HbF 0.8 %



# INDIA : SERVICE CALL REPORT

INSTRUMENT NAME & MODEL HLC 723 R-G8		SERIAL NO. 16550912	TICAN NO.			
CUSTOMER DETAILS						
Name TATA IMG		Address CHAKRATA ROAD, BALLUPUR CHOWK, DELHI RADUN				
Contact Person SALMAN		Contact Number 9411858653	E-Mail ID			
SERVICE CALL DETAILS						
Complaint Received On 18-05-2023		Complaint Attended On 19 May 2023		Complaint Addressed On 19 May 2023	Complaint Resolved On 19 May 2023	
Work Carried Out: <input checked="" type="checkbox"/> ON SITE   <input type="checkbox"/> SERVICE HUB		Man Hour Deployed		Travel Time Consumed		
Service Call Executed As : <input type="checkbox"/> WARRANTY   <input checked="" type="checkbox"/> EX-WARRANTY   <input type="checkbox"/> AMC   <input type="checkbox"/> CMC   <input type="checkbox"/> RRC/PRC   <input type="checkbox"/> NSC   <input type="checkbox"/> OTHERS						
Purpose Of Visit (Tick Wherever Applicable)	<input type="checkbox"/> Pre-Installation Check	<input type="checkbox"/> Demonstration	<input type="checkbox"/> Installation	<input type="checkbox"/> Application Issues	<input checked="" type="checkbox"/> Preventive Maintenance	PM-1
	<input type="checkbox"/> Breakdown	<input type="checkbox"/> Hardware Complaint	<input type="checkbox"/> Software Complaint	<input type="checkbox"/> Reagent Issues	<input type="checkbox"/> Calibration	MP-2
	Others (Please Specify)					PM-3
ENGINEER'S OBSERVATIONS						
Reported Issue		PM DUE				
Observed Damage (If Any) Before Service		NA				
Engineer's Diagnosis		PM NEEDS TO BE DONE.				
Job(s) Carried Out :		P.M DONE.				
Attached Documents						
PRE-REPLACEMENT REPAIR ESTIMATE / APPROVAL						
Sr.No.	Code No.	Description Of Spare Part / Item	Quantity	Source	Unit Price	Total Price
1						
2						
3						
4						
5						
Above mentioned replacement of part/s and related service charges have been approved to proceed for necessary service / repair.				Please Invoice In The Name Of The Laboratory Mentioned Above		Cost Of Spare Part
Name, Signature & Stamp						Service Charge
For Billable Transactions: Customer may kindly note that this SCR duly signed and stamped will be treated as "Purchase Order" from you. If the same does not meet internal procedural requirements, please treat this SCR as a quotation and kindly issue a separate P.O. This estimate will be valid for next 30 days from the date of issuance.						Tax
						Total
STATUS AFTER SERVICE (PLEASE TICK)						
<input type="checkbox"/> Normal Functioning Observed		<input type="checkbox"/> Instrument Under Observation		<input type="checkbox"/> Operative But Requires Action		
<input type="checkbox"/> Needs Spare Parts / Consumables		<input type="checkbox"/> Requires Follow Up		<input type="checkbox"/> Referred To National Service Hub		
Pending Job (If Any)		Customer Remarks :				