

405, KIRTI SHIKHAR BUILDING, JANAKPURI DISTT. CENTRE, NEW DELHI - 110 058

TEL: +91 11 25619194 FAX: +91 11 25613392

Dated- 23rd Oct 2021

Certificate of Calibration

This is to certify that the below mentioned instrument installed in **Shri Mata Sheetla Devi Swarna Jayanti Diagnostic Centre, Gurgaon (HR)** calibrated by us on 23rd Oct 2021. The next calibration is due on or before 22nd Oct 2022. The values are falling within the specified range.

Instrument Model- **Architect Plus C4000** Serial No. –**C461943** Software Version – **9.45**

For Abbott Healthcare Pvt Ltd

Deepak Arya

Technical Service Specialist Abbott Diagnostic Division

Abbott (Diagnostics Division)

405, KIRTI SHIKHAR BU	HLDING,		
JANAKPURI DISTT CEN	ITRE,		
NEW DELHI - 110 058			
TEL: +91 11 25619194	FAX: +91	11	25613

SERVICE REPORT REPORT NO :

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MODEL	
C4000	
SERIAL NUI	MBER
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C46194	-3
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RK UNIT PRICE	VALU
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LAPOUR	
-	LABOUR

CUSTOMER SIGN AND STAMP

DATE

ENGINEER'S SIGN

23-10-2021

DATE

c4000 Preventive Maintenance Procedure

Customer Name	HLL LAB GURG	AON Serial Number	C461943
Customer Number		Ticket Number	159159RA1575403
City	GURGAON	FSR Name	Pankai Dinrahi
Telephone	8595659668	Date	22010.2021

Pre-site Investigative Procedures	Completed
Interview customer for any on-going issues and order parts as necessary. Note: If the instrument is experiencing ongoing assay imprecision or accuracy issues, perform the ISA ARCH-018 ARCHITECT Clinical Chemistry Systems Assay Troubleshooting prior to completing the PM.	
Ensure PM parts are available per the parts list at the end of this procedure.	J.
Verify Abbott Link connection status & review message history log for issues.	
On-site Investigative Procedures	Completed
Verify TSB status of instrument.	
Verify customer has performed a recent software back-up and current system back-up CD is available.	
Review Maintenance & Message History Logs and advise customer on replacing the following list number (L/N) parts. • 01G48-04, Sample Probe- if last replacement is > 1 year. • 02P77-01, Sample Probe Tubing- if last replacement is > 1 year. • 01G47-04, Reagent Probe- if last replacement is > 1 year. • 02P76-01, Reagent Probe Tubing- if last replacement is > 1 year. • 09D36-02, Poppet Valve Set- if last replacement is > 1 year. • 09D51-02, Cuvette Drying Tip- if last replacement is > 4 months. • 09D34-03, Check Valve, Wash Solution- if last replacement is > 1 year. • 09D43-02, Ref/Wash solution Line Filters- if last replacement is > 1 year. • 09D42-02, Cuvette Wiper - if last replacement is > 1 year. The removal and replacement instructions for L/N parts are available on the System Control Center (SCC) online Operations Manual.	
Note: Follow local Service Organization processes if it is necessary to charge customer for LN parts and/or labor. Decontamination & Cleaning	Completed
Log in as FSE, select Maintenance/As needed, perform M&D 2183 Clean Wash Cups and perform the following during the sodium hypochlorite soak time. • P-625 Pre-service Decontamination • Inspect the upper instrument deck area and pump/supply center area for evidence of leaks, spraying, splattering, etc Clean and troubleshoot as necessary. • Gently wipe the Reagent Supply Center barcode reader window with a lint free tissue/cloth.	

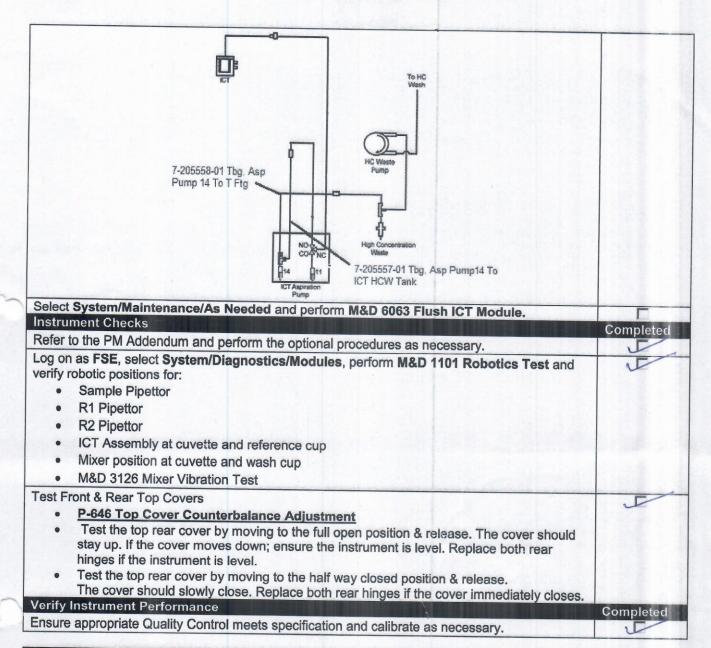
Wipe the inside & outside of window with lint free tissue Note: If the lab environment is dusty, refer to PM Addendum for additional cleaning instructions. **High & Low Concentration Waste** Completed Replace high concentration waste peristaltic pump tubing and HCW WSH NZL TO HCW PUMP IN tubing if last replacement is > 6 months. 7-35009685-02 Tubing, Peristaltic Head E8.03 Tubing, Peristaltic Head 7-205611-01 HCW WSH NZL TO HCW PUMP IN HCW pump & head tubing HCW nozzle to HCW pump tubing HCW nozzle tubing to HCW pump Inspect and clean LCW manifold and LCW tank as necessary. Clean Manifold Build up in Manifold Inspect HCW and LCW external waste tubing & connections. Clean as needed. Inspect external waste pump (if present) tubing & connections. Power off external waste pump and clean as needed. **External Waste Pump Probes & Tubing** Completed Advise customer on replacing the Sample Probe & Tubing if last replacement is > 1 year. LF 01G48-04 Sample Probe 02P77-01 Sample Probe Tubing Advise customer on replacing the Reagent Probe & Tubing if last replacement is > 1 year. 1 01G47-04, Reagent Probe 02P76-01 Reagent Probe Tubing

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Good tubing: no kinks, leaks, or discoloration	
Replace Cuvette Washer Pump bellows if last replacement is > 1year.	
2-89055-02 Bellows set, including rod & fitting E9.03 Bellows, Cuvette Wash Pump	u
<u>Or</u>	
2-89054-02 Bellows, bellows only	
Advise customer on replacing the Cuvette Washer Pump poppets if last replacement is > 1year.	. [/
U9D36-02 Poppet Valve set	
Advise customer on replacing dryer tip if last replacement is > 4 months.	. [
09D51-02 Cuvette Drying Tip (pkg of 2).	
Advise customer on replacing the Wash Solutions straw filters if last replacement is > 1 year.	1
09D43-02 Ref/Wash Solution Line Filter (pkg of 3).	
Advise customer on replacing Wash Solution Pump check valves if last replacement is > 1 year.	J
09D34-03 Check Valve, wash solution (pkg of 4).	
Log On as FSE, select System/Diagnostics/Fluidics Wash and perform M&D 1260 Cuvette	V
Washer Test. Follow the on screen instructions and perform the following if the M&D fails.	
Penlace pozzlo(s) if democrat/hant an an analysis and analysis and an analysis	
Replace nozzle(s) if damaged/bent or an uneven spray pattern is observed due to a clogged port that cannot be cleared.	
• R6.03 Nozzle, #1, #4, & #5, R6.05 Nozzle, #6 Blank, R6.06 Nozzle, #7, Suction, R6.04 #2 & #3, Wash Solution	
RO.04 #2 & #3, Wash Solution	TOTAL THE
Replace Driver Tip, inspect pozzlo tubing for grimps, perform Output Marie All	
Replace Dryer Tip, inspect nozzle tubing for crimps, perform Cuvette Washer Alignment and rebuild vacuum pump <u>if</u> there is fluid in a cuvette that should be dry.	
R6.08 Cuvette Drying Tip	
P-621 Cuvette Washer Alignment	
• 2-94796-02 Diaphragm Vacuum Pump New Style K4 02 Diaphragm Vac	
- The state of the	
2-94797-02 Sheet Valve for Vacuum Pump New Style (pkg of 2) K1.03 Sheet Valve, Vac. Pump	
• 2-94798-02 O-Ring for Vacuum Pump New Style (pkg of 2) K4 04 O ring Vacuum	
2-94798-02 O-Ring for Vacuum Pump New Style (pkg of 2) K1.04 O-ring, Vacuum Pump	
Select System/Maintenance/As needed and perform:	10
M&D 2155 Flush Bulk Solutions.	4
M&D 6052 Wash Cuvettes. Observe the cuvette wash operation. Ensure water is not	
rising to the top of the cuvette and that the dryer tip moves down into the cuvette	
smoothly and does not deflect off the cuvette wall. Perform P-621 Cuvette Washer	
Alignment if necessary.	
Water Peth/Ontice	C1
Replace water bath fill pump peristaltic tubing if last replacement is > 1year.	Completed
7-35009681-01 Tubing, Pump Head Water Bath fill <u>E3.05 Tubing</u> , <u>Pump Head Water</u>	
Bath Fill	
Advise customer on replacing Cuvette Wipers if last replacement is > 1year.	
09D42-02 Cuvette Wiper N1.02 Cuvette Wiper	
Clean the water bath float switch.	
P-648 Clean Water Bath Float Switch	
M&D 3526 Check Water Bath Temperature	. [
Perform P-662 Optics Check. If shutter open ranges are high (typically below 50), change lamp	
	W.

	Completed
Replace Inner Probe Wash Pump bellows if last replacement is > 1 year or signs of leakage are	V
bserved.	
2-89055-02 Bellows set, including rod & fitting <u>E7.02 Complete Bellows Set, Probe</u> Wash Pump	
Or Or	
BEST THE PROPERTY OF THE PROP	
 2-89054-02 Bellows, bellows only use <u>E7.06 Bellow, Probe Wash Pump (c8000) as reference.</u> 	
	-
dvise customer on replacing Inner Probe Wash Pump poppets if last replacement is > 1 year. • 09D36-02 Poppet Valve set	1
Check sample & reagent syringes and degasser output for air/bubbles. Drain degasser canister if	-
vater is observed in the drain tubing. P-609 Degasser Canister Draining	
lote: Presence of bubbles in syringes & degasser output tubing may indicate a degasser failure.	
Degasser	
Drain Tubing Presence of bubbles in out put	
tubing and syringes may	
indicate degasser failure	
Out put tubing	
Out put tubing	
A SECTION OF THE PROPERTY OF T	
elect System/Maintenance/As needed and perform M&D 2132 Flush Water Lines.	
og on as FSE and select System/Diagnostics/Fluidics Wash and perform M&D 1175 Wash	4
up Test.	4
uvette Washer	C
dvise customer on manually cleaning cuvettes per M&D 6310 Clean cuvettes-manually if last	Completed
ompletion is > 6 months. Inspect the cuvette segments for Crystalline build up and clean if	4
ecessary.	
Crystalline build up can fall into cuvettes and impact assay results. Clean if present.	
and impact accay results. Clearin present.	
spect Cuvette Washer nozzle tubing for kinks, leaks, debris & discoloration. Replace as	

P-662 Optics Check	
P-671 Water Bath Clean with Alkaline Solution	
P-641 Clean Water Bath Lens	
Replace Water Bath filter if last replacement is > 1 year.	1
7-202500-01 Filter, Water Bath E3.03 Filter, Water Bath ICT ICT ICT ICT ICT ICT ICT IC	
	Completed
Advise customer on replacing the ICT check valves if last replacement is > 1year. • 09D35-03 Check Valve, ICT (pkg of 2).	
Advise customer on replacing the ICT Reference Solution straw filters if last replacement is > 1	
year.	
09D43-02 Ref/Wash Solution Line Filter (pkg of 3).	
Clean the ICT Reference Cup and LLS Electrodes.	. 5
Remove the IRef cup electrodes & clean inside cup with a cotton tip swab.	4
Clean the LLS electrodes using a lint free tissue moistened with purified water.	
Remove screw & carefully lift out electrodes	
nspect the ICT Probe tubing at top of ICT module. Look for collapsed tubing, crimps, clogs, liscoloration and replace as needed.	T
7-205555-01 TBG, ICT MOD TO ICT ASP PUMP 11 NC ICT Probe Tubing	
	MA
eplace ICT aspiration pump pinch valve tubing if last replacement is > 1year.	
 7-204068-01 Tubing, ICT Pinch Valve E6.03 ICT Pinch Valve Tubing 	
Replace ICT waste cup tubing if last replacement is > 1year.	
Tooling the second of the seco	
 7-205558-01Tbg, Asp Pump 14 To T Ftg 7-205557-01Tbg, Asp Pump14 To ICT HCW Tank 	



PM Addendum Procedure	s Maria	STATE OF REAL PROPERTY.	COLUMN TWO E ST
List optional procedures per	formed per the PM Addendum (if	needed):	可受理 医侧侧束 三十

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ISA 128-014A c4000 Preventive Maintenance and Total Call Procedure

Comments:	
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	V .
Field Engineer Signature:	TKni-oli 23:10:2021
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Customer Signature:	(1.9/2)

	Field Service PM	/I Parts List	
Part #	Description	Qty	Criteria
7-35009685- 02	Tubing, Peristaltic Head	1	If last replacement is > 6 months
7-205611-01	HCW WSH NZL TO HCW PUMP IN	1	If last replacement is > 6 months
2-89055-02 2-89054-02	Bellows set, including rod & fitting Or Bellows, bellows only	2	If last replacement is > 1year
7-35009681- 01	Tubing, Pump Head Water Bath fill	1,	If last replacement is > 1year
7-10006378- 01	Filter, Water Bath	1	If last replacement is > 1year
7-204068-01	Tubing, ICT Pinch Valve	1	If last replacement is > 1year
7-205557-01	Tbg, Asp Pump14 To ICT HCW Tank	1	If last replacement is > 1year
7-205558-01	Tbg, Asp Pump 14 To T Ftg	1	If last replacement is > 1year

Customer Parts List				
L/N Part #	Description	Qty	Criteria	
01G48-04	Sample Probe	1,	Advise customer to replace if last replacement is > 1 year.	
02P77-01	Sample Probe Tubing	1	Advise customer to replace if last replacement is > 1 year.	
01G47-04	Reagent Probe	2	Advise customer to replace if last replacement is > 1 year.	
02P76-01	Reagent Probe Tubing	2	Advise customer to replace if last replacement is > 1 year.	
09D36-02	Poppet Valve Set (Inner probe Wash pump, Cuvette wash pump)	2	Advise customer to replace if last replacement is > 1 year.	
09D51-02	Cuvette Drying Tip	1	Advise customer to replace if last replacement is > 4 months.	
09D34-03	Check Valve, Wash Solution	1	Advise customer to replace if last	

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ISA 128-014A c4000 Preventive Maintenance and Total Call Procedure

		(pkg 4)	replacement is > 1 year.
09D35-03	Check Valve ICT	2 (pkg 2)	Advise customer to replace if last replacement is > 1 year.
09D43-02	Ref/Wash solution Line Filters (replace in all bulk solutions)	1 (pkg 3)	Advise customer to replace if last replacement is >1 year
09D42-02	Cuvette Wiper	1 (pkg 32	Advise customer to replace if last replacement is > 1 year.

Procedure Report

Procedure: 1121 R1 Pipettor Calibration

Procedure version: 10

Module no.: 1

Serial no.: c461943

Operator ID: FSE

Date: 23.10.2021

Time: 13:55:51

Status: Completed

Results:

Calibration Point	Theta	Z	Carousel	
Wash Cup	-1	. NA	NA	
Reaction Carousel	-1	NA	3	
Outer Segment	-2	-7	38	
Inner Segment	-2	-4	23	

Calibration passed

Printed on: 28.03.2022

4:43:07PM

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Procedure Report

Procedure: 1120 Sample Pipettor Calibration

Procedure version: 12

Module no.: 1

Serial no.: c461943

Operator ID: FSE

Date: 23.10.2021

Time: 13:46:51

Status: Completed

Results:

Calibration Point	Theta	Z	Carousel	Carrier Position	
Reaction Carousel	-1	30	3	NA .	
Wash Cup	-2	NA	NA NA	NA	
Sample Handler	2	12	NA	70	

Calibration passed.

Printed on: 28.03.2022

4:42:57PM

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Procedure Report

Procedure: 1122 R2 Pipettor Calibration

Procedure version: 9

Module no.: 1

Serial no.: c461943

Operator ID: FSE

Date: 23.10.2021

Time: 14:04:34

Status: Completed

Results:

Calibration Point	Theta	Z	Carousel
'Wash Cup	3	NA	NA '
Reaction Carousel	2	NA	3
Outer Segment	1	-6	36
Inner Segment	1	2	29

Calibration passed

Printed on: 28.03.2022

4:43:18PM

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QC Results List Report

Released

Operator ID: admin System serial number: 81095

C/P	IVI	odule	SID	Control name	Assay	Result	Flags	Code	Date / Time
A835/1	1	BIORA	D CCLevel 1	BIORAD CC - Level	1 UA	4.7 mg/dL			22.10.202
A835/1	1	BIORAL	D CCLevel 1	BIORAD CC - Level	1 ALT	24 U/L			10:13 22.10.202
A835/1	1	BIORAL	O CCLevel 1	BIORAD CC - Level	1 UHDL	79 mg/dL			10:13 22.10.202
A835/1	1	BIORAL	OCCLevel 1	BIORAD CC - Level	1 BilD	0.40 mg/dL			. 10:12 22.10.202
A835/1	1	BIORAL	CCLevel 1	BIORAD CC - Level	1 AST	35 U/L			10:11
A835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level	1 Urea	32 mg/dL			10:11 22.10.2021
A835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level	1 Chol	258 mg/dL			10:11 22.10.2021
A835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level	1 CreaC	2.32 mg/dL			10:11 22.10.2021
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level	AlkP	89 U/L			10:10 22.10.2021
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	ВІІТ	0.93 mg/dL	*		10:09 22.10.2021
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	TP	7.0 g/dL			10:08 22.10.2021
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	GluC	80 mg/dL			10:06
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	Trig	187 mg/dL		2	10:06
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	CaC	8.4 mg/dL	1		10:05
835/1	1	BIORAD	CCLevel 1	BIORAD CC - Level 1	AlbG	4.1 g/dL			10:05 2.10.2021 10:03

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QC Results List Report

Released

Operator ID: admin System serial number: 81095

CYP	Mo	dule	SID			- Oystelli seriai nun	nber: 81095		
			310	Control name	Assay	Result	Flags	Code	Date /
A835/4	1	RAND	OX-1Level 3	RANDOX-1 - Level 3	CPP22				Time
				20000	OKF 52	68,5 mg/L			22.10.2021
A835/4	A835/4 1 RAND	RANDOX-1Leve	OX-1Level 3	RANDOX-1 - Level 3	laF	040.0			10:15
		1		1	'gr	212.6 IU/mL			22.10.2021
					1				. 10:15

Printed on: 28.03.2022

4:23:07PM

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QC Results List Report

Released

Operator ID: admin System serial number: 81095

C/P		dule SID	Control name	Assay	Result	Flags	Code	Date / Time
A835/2		BIORAD CCLevel 2	BIORAD CC - Leve	12 Lip	83 U/L			22.10.202
A835/2		BIORAD CCLevel 2	BIORAD CC - Leve	12 UA	9.7 mg/dL			22.10.202 10:15
A835/2		BIORAD CCLevel 2	BIORAD CC - Leve	12 ALT	83 U/L			22.10.202 10:15
A835/2		BIORAD CCLevel 2	BIORAD CC - Leve		25 mg/dL			22.10.202 10:14
A835/2		BIORAD CCLevel 2	BIORAD CC - Leve		1.16 mg/dL			22.10.202 10:14
A835/2		BIORAD CCLevel 2	BIORAD CC - Level		163 U/L			22.10.202 10:14
A835/2		BIORAD CCLevel 2	BIORAD CC - Level	2 Urea	97 mg/dL			22.10.202 10:13
A835/2	1	BIORAD CCLevel 2	BIORAD CC - Level	2 Chol	101 mg/dL	1-1.		22.10.202 10:13
A835/2	1	BIORAD CCLevel 2	BIORAD CC - Level	2 CreaC	5.48 mg/dL	1		22.10.202 10:12
A835/2	1	BIORAD CCLevel 2	BIORAD CC - Level	2 AlkP	357 U/L	*		22.10.202 10:12
A835/2	1		BIORAD CC - Level	2 BiliT	3.85 mg/dL			22.10.202 10:10
\835/2		BIORAD CCLevel 2	BIORAD CC - Level	2 TP	4.2 g/dL			22.10.2021 10:08
\835/2		BIORAD CCLevel 2	BIORAD CC - Level		270 mg/dL			22.10.2021 10:08
\835/2		BIORAD CCLevel 2	BIORAD CC - Level	2 Trig	98 mg/dL			22.10.2021
\835/2		BIORAD CCLevel 2	BIORAD CC - Level	2 Amy	384 U/L	1		22.10.2021 10:07
835/2		BIORAD CCLevel 2	BIORAD CC - Level	2 CaC	10.4 mg/dL			22.10.2021 10:07
835/2	1	BIORAD CCLevel 2	BIORAD CC - Level:	2 AlbG	2.5 g/dL			22.10.2021 10:06

Printed on: 28.03.2022

4:22:56PM

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