TECHNICAL SERVICE REPORT

No.: C(23/12179

To be filled as per TSR no. generated by CRM

DiaSys India

Revision No.: 02

☑ WARRANTY ☐ NON SERVICE CONTRACT ☐ SERVICE CONTRACT

NAME OF LAB / HOSPITAL IVY PATH LAB
Polo Labss

ADDRESS
IVY HOSPITAL
KHANNA (PB)
PIN-141401

CONTACT PERSON: Tasvinder Singh

CONTACT NO.: 9772880378

EMAIL ID: Pathlab-khanna@IVYHospital.com

WORK CARRIED OUT AT
☐ Site Service Centre

NATURE OF VISIT
☐ Application
☐ Emergency Call (Repairs)
☐ Pack/Move/Reinstallation
☐ Chargeable Service
☑ Preventive Maintenance
☐ I ☐ II ☐ III
☐ Others

PARTICULARS OF INSTRUMENT

Name: SYS200

Serial No.: SYS20211105

CALL LOG

	Start	End
Date	01-12-2023	01-12-2023
Time	7 AM	10 AM

PARTICULARS OF ACTION TAKEN

Specify Your Diagnosis:
Brief on the maintenance of the instrument is done according to checklist.
Wash all the cuvettes with D/w & detergents.
Run all the QC.

DI-Ionized water TDS: 2

Earthing: 0

Online UPS Available Yes (✓) / No ( )

STATE ANY DAMAGES BEFORE SERVICE:
-NIL-

SPARE PARTS USED	SOURCE

Condition after service: (Please mark ✓) : ☑ Functioning normally ☐ Functioning but Requires action (See Remarks) ☐ Referred to Service Center (See Remarks)

Customer Remark :

Customer Feedback - Excellent (✓) Good ( ) Poor ( )

Remote Access Training Given - Yes (✓) No ( ) N/A ( )

Engineer Remark : IVY HOSPITAL LABORATORIES

Approximate Service Charges : -N/A-

AUTHORISED SIGNATORY

GAURAV DHAND
Service Engineer / Application Support Signature

01-12-2023
Date

Customer's Signature/Stamp

F-265

(Application support to attach calibration / control / result data)

Preventive Maintenance Protocal SYS200

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CUSTOMER DETAILS

Customer Name: IVY · PATH LABS

Address: IVY Hospital

City: Khanna State: Punjab

Pincode 141401

Contact Person: Jaswinder Singh Phone: 9772880378

Installation Date: SYS 200 Serial No.: SY520211105

Email: Pathlabs Khanna @ IVY Hospital.com

CUSTOMER REQUIREMENTS

Prior Appointment	Gloves, Masks,	Tissue Paper, Gauze,	DI Water, Hypo 0.5%
2% Anti Bacterial	WD40, Grease, Oil	Hardware Tools	Blower

PRECAUTIONS

(Kindly fill the details as mentioned in description.)

Function	Description	Done Y/N	Engineer Remarks
Take Customer Feedback	Take Customer Feedback reg Machine Performance, Issues, Damage, etc.	Y	
Check Power Quality	Check Voltage, Earthing at UPS & Raw Power	Y	
Check Water TDS	TDS Should be less than 1ppm. Check Cleanliness of External Water Tank. Check for any Obstruction in Drain Tube	Y	
Check Results	Check Results of Patients,QC and Reaction Curve	Y	
Check Lamp	Check Lamp & Cuvette Values. Check Last Replacement Date	Y	
Check Performance	Run a Sample & Observe Machine Performance like Probe Movements, Alignments, Blockage, Washing Function etc. Then Store Reagents in Fridge.	Y	
Check Cooling	Check Reagent Tray Cooling & Incubation bath Temperature	Y	
Check for Damage	Inspect Machine Thoroughly for Any Damage.	Y	

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PREVENTIVE MAINTENANCE PROCEDURE

Function	Description	Done Y/N	Engineer Remarks
Soak Cuvettes	Remove & Soak Cuvettes in 5% Alkaline Solution (50ml ALK in 1000ml DI Water)	Y	
Remove Covers	Remove Covers of Machine for Inspection & Cleaning Purpose	Y	
Clean Dust	Cover Reaction Tray. Loosen the Dust in all Parts using a Brush & Clean the Dust using a Blower.	Y	
Clean all Probes	Clean Sample Probe Tip,Wash Probes & Drier Tip with Alcohol soaked Gauze. Clean Mixer Probe with 2% Anti Bacterial. Use Syringe Tool with Hypo 0.5% for Cleaning Sample Probe in case of Block. Check Sample Probe Spring Action.	Y Y	
Clean Wash Stations	Pour 5ml of 0.5% Hypo in Sample Probe Wash Station & Clean all Wash Stations with Hypo Soaked Ear Buds. Then Pour 50ml DI Water after 10minutes to Rinse.	Y	
Clean Incubation Bath	Clean Incubation Bath Inner Surface with Alcohol Soaked Gauze without scratching the Lens.	Y	
Clean Filters	Clean DI Water Main Inlet Filter. Clean Incubation Bath Inlet & Drain Filters.	Y	
Clean Tubings	Remove & Clean All Tubings with Diluted Hypo 1:20. Clean De-Bubbler also same way. Rinse with DI Water thoroughly.	Y	
Clean Tray	Clean Reagent Tray Surface with 2% Anti Bacterial Solution. Put 5ml of 2% Anti Bacterial Solution in Reagent Tray Drain Hole.	Y	
Clean Syringe Sensor	Clean Dust in Syringe Sensor	Y	
Lubrication	Clean Probe Shafts with WD40 Soaked Tissue Paper & Then Apply Oil/Grease using Soft Tissue Paper	Y	
Install PM Kit, Tubings etc	Install PM Kit all spares and Tubings carefully	Y	
Rinse Cuvettes & Install	After Soaking for few Hrs ,Rinse Cuvettes thoroughly with Running Tap Water & then with DI Water	Y	

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POST PM VALIDATION

Function	Description	Done Y/N	Engineer Remarks
Check all Functions	Assemble Machine & Check all Functions	Y	
Check Light Check	Check Light Check Values. Repeat Light Check & Check Repeatation Value (+/- 100)	Y	
Check Water Flow	Check Water Flow at all Wash Probes, Probe Wash Stations. Check Sample Probe Water Stream Flow. Check Cuvette is Dry after Washing Step.	Y	
Check Cuvette Blank	Carry out Cuvette Blank & Verify Values (+/- 800)	Y	
Check Probe Alignment	Check Probe Alignment at all Positions & Do Probe Adjust if Required. Check Sample Probe is Straight.	Y	
Check Temperature	Check Reagent Tray Cooling again. Check Reaction Temperature 37°C	Y	
Check Precision & Control	Check Precision of GLU,CHOL,UREA,SGOT 5 times to assess machine performance. Check QC & Observe Samples.	Y	
Update Status to Customer	Update Machine Status to Customer & Take Service Report. Mention List of Spare Stock to be Kept at Customer Place.	Y	

Engineer's Remarks: — NA —

Customer's Feedback:

ARJUN DUHAN

Engineer's Signature

01-12-2023

AUTHORISED SIGNATORY

Customer's Signature/Stamp

Daily QC Report

Qc Test	Lot No.	QC Name	Target Mean	Target SD	Result	Unit	Status	DateTime
ALB	33772	TRULAB N	3.58	0.4125	3.7	g/dL	Normal	01-12-2023 09:31:45
ALP	33772	TRULAB N	70.4	8.8	66	U/L	Normal	01-12-2023 09:34:24
ALT	33772	TRULAB N	51.3	5.925	49	U/L	Normal	01-12-2023 09:32:15
AMY	33772	TRULAB N	71.1	7.1	72	U/L	Normal	01-12-2023 09:33:45
AST	33772	TRULAB N	39.5	4.55	42	U/L	Normal	01-12-2023 09:32:30
Ca	33772	TRULAB N	8.84	0.485	8.64	mg/dL	Normal	01-12-2023 09:32:15
CRE	33772	TRULAB N	1.48	0.1625	1.6	mg/dL	Normal	01-12-2023 09:34:00
DBIL	33772	TRULAB N	0.876	0.113	0.78	mg/dL	Normal	01-12-2023 09:34:53
Fe	33772	TRULAB N	79.9	5.6	69.76	ug/dL	< -1SD	01-12-2023 10:43:22
GGT	33772	TRULAB N	31.8	3.5	27	U/L	< -1SD	01-12-2023 09:34:39
GLU	33772	TRULAB N	88.9	7.075	88.1	mg/dL	Normal	01-12-2023 09:34:53
HDL-C	33772	TRULAB N	42.4	4.22	44.85	mg/dL	Normal	01-12-2023 09:37:08
P	33772	TRULAB N	2.98	0.27	3.2	mg/dL	Normal	01-12-2023 10:39:25
RF	32654	trulab protein	72.3	7.25	75.8	IU/mL	Normal	01-12-2023 10:27:41
TBIL	33772	TRULAB N	1.62	0.21	1.6	mg/dL	Normal	01-12-2023 09:34:00
TC	33772	TRULAB N	145	10.25	135.8	mg/dL	Normal	01-12-2023 09:34:53
TG	33772	TRULAB N	80.5	7.25	77.4	mg/dL	Normal	01-12-2023 09:35:08
TP	33772	TRULAB N	5.63	0.31	5.4	g/dL	Normal	01-12-2023 09:34:08
UA	33772	TRULAB N	5	0.35	4.87	mg/dL	Normal	01-12-2023 09:35:08
UIBC	33772	TRULAB N	228	22.7	194.1	ug/dL	< -1SD	01-12-2023 10:21:55
UREA	33772	TRULAB N	34.2	3.75	35.38	mg/dL	Normal	01-12-2023 09:33:15