Coralyzer Series Fully Automatic Biochemistry Analyzer,Inspection/calibration Report

Test QC refer to: <<Coralyzer Series Fully Automatic Analyser>> Registered Standard Model: Coralyzer Smart, S/N: AES2K2KH09087Y

;-	Inspection Item		- 10 · 03 · 2 ፡ 2ካ Due Date:- 16 Criterion of QC test		Result	Conclusio
		CRITERIA OF QC TEST				
		a) Analytical method may analyse 40 pos at the same time.			ок	
		b) Programming item				
			•		OK	
		d) Callbarra II	inspect of emergency sample.		ОК	
		d) Calibration linearity	/non-linearity multi point calibra	ation.	ОК	
		e) QC at may operate most of QC at same item. g)Storage			OK	
	Software functions				OK	PASS
		h) Printer multiple rep	oort formats available, user can s	elf edit report formats.	ок	17100
		i) STAT		•	ок	
		j) Sample rerun/reche	eck.		ок	
		k) Sample /reagent pr			ок	
		I) Mixing function.	and officers.		1	
			ery,quality control chart,the who		OK	
		n) Crash gard functio	ery, quality control chart, the who	le process	ОК	
2	Dark Abs	Absorbance >= 3.400			OK	
	Linearity range of	1			5.8	ок
3	absorbance.	relative range of ± 5%	pance should be not less than 3.7	00A within the	340nm: 5.1	ОК
		Less than ± 0.040A at 1.00A		505nm: 4.8	OK	
4	Accuracy of	Less than ± 0.060A at 1500A			0.012	OK
	absorbance	Less than ± 0.020A within 0.500A		0.027	OK	
 5	Accuracy of				0.048	ОК
<i>-</i>	absorbance	Absorbance change :	should be less than 0.005A/min		340nm: 0.003A	OK
6	Reproducibility of	cofficient of variation	CV < 20/		505nm: 0.002A	OK
	absorbance				2.73%	ок
7	Temperature of	Accuracy less than than ± 0.1° C		37'C	014	
	reaction cuvette 37	Fluctuate of tempera	ture less than ± 0.1°C			ОК
8	Teperature of	Under normal work of	ondition, reagent storage should	- 0.0%	0.005'C	ОК
	reagent storage			De 2-8°C	6.0'C	ок
9	Carryover	Sample carryover le			PASS	-
	Accuracy of	UREA Items	Concentration	CV	1 700	
10	parameter	GLUC	76.3-109.9 81.0-116.6	≦ 3%	1.30%	ОК
	parameter.	SGOT	55-87	≦ 3%	1.20%	OK OK
				≦ 3%	2.70%	OK OK
		a) whole appearance	e of the surface should not have o	obvious mechanical abrasion		
11	Apperance	partition and defrace coating spanning.				
		b) All connections are stable and fixed well. moving parts running smooth and keypad works well		PASS		
						1
12	Protect ground	The impedance between ground outlet from power supply net and ground protected touchable metal should not more than 0.1 Ω			-	
-	connect			PASS		
	Power grid, power		Basic insulation:50Hz the sine 230V alternating voltage test, should not apper brakdown or occur electric arring.			1
13	supply, circuit	brakdown or occur e	cure sine 230V alternating voltag	e test, should not apper		
	122617, 0110011	Tarabania or occar e	come arcing.	• 1 =-	PASS	1

Inspection/Calibration date: 11.03.2024

Check: Swarup Ghosh

re-check: S

Installation Qualification For Biochemistry Analyzer (Coralyzer Smart)

Contents

- 1) Instrument Identification
- 2) Environment Condition
- 3) Instrument Delivery and Documentation
- 4) Instrument Safety
- 5) Assembly and Installation
- 6) Summary Report

1) Instrument Identification:

Biochemistry Analyzer - Coralyzer Smart.

Sr. No.	Specification	As per design qualification	Specification received	Match (Yes/No)
1 General Feature Random chemistr Multicha photome of measu absorbar contents microcus		Random access chemistry, Multichannel photometer capable of measuring absorbance of contents in microcuvettes.		☑ Yes
2	Typical working volume For cuvettes	300 micro ltr		yes
3	Filter range	340 to 700 nm		Yes
4	J Theoryange			Yes
5	Printer	External Printer		yes
6	Power requirement	500 VA+ PC		Yes
7	Grounding	< 5 volt ac		yes
8	Throughput	200 test/hr		yes

Comments:

2.Environment Condition:

Has the Instrument been adequately acclimatized since transport or storage?

YES: ☑ NO: □

Specified Range	Conditions Met
10 to 30 degrees	YES: ☑ NO: ☐
30% to 80 %	YES: ☑ NO: □
220-230V, 50 Hz ac	YES: ⅓ NO: □
	30% to 80 %

3. Instrument Delivery and Documentation:

Unpack the Instrument carefully. Are any items missing against the Packing List?						
YES: □		NO: ☑				
If yes, state the missing Items:						
Is there any damage to the Instrument or Accessories?						
YES: □ If yes: Description of Damage:		NO: 🖳				
Corrective Action:						
Manufacturing informed:		NO: □				
Is all Standard Documentation Included?						
Operating Manual:	Present: 🖳	Missing: \Box				
Warranty Card:	Present: 🖳	Missing: □				
Is all additional documentation Ir	ncluded:					
	Present: ☑	Missing: \square				
Installation Qualification:						
Operational Qualification:						
Performance Qualification:						

3. Instrument Delivery and Documentation:

Unpack the Instrument carefully.	Are any items missing a	against the Packing List?				
YES: □		NO: 🖳				
If yes, state the missing Items:						
Is there any damage to the Instrument or Accessories?						
YES: □ If yes: Description of Damage:		NO: 🖳				
Corrective Action:						
Manufacturing informed:	YES: □	NO: □				
Is all Standard Documentation Included?						
Operating Manual:	Present: ☑	Missing: \square				
Warranty Card:	Present: 🖳	Missing: □				
Is all additional documentation Ir	ncluded:					
	Present: ☑	Missing: \square				
Installation Qualification:						
Operational Qualification:						
Performance Qualification:						

4.Instrument Safety:

Manufacturer Safety Recommendations:

Allow enough space for the Instrument YES: ☑ NO:□
Position on level, non-combustible surface Indoors YES: ☑ NO: ☐
Area free from aggressive/ explosive chemical mixtures YES: ☑ NO: ☐
Ensure correct power supply and all power switches YES: ☑ NO: ☐ Easily accessible
Beware of moving parts during working YES: № NO: □
Do not use Heat material that could cause fire or other YES: $lacktriangle$ NO: $lacktriangle$ Hazards
Read Operator Manual before use YES: ☑ NO: ☐

5. Assembly and Installation:

Assembled and installed By: Swanup Ghasuser:	Specialized Engineer: Yes	N/A
Installation Procedure:		
Unpack and retain Packaging -		
Verifying the site before connecting to power supply- Checking the instrument before performing the Test-		
Checking the management		

o. <u>Summary Report :</u>			
Instrument Name: Co	ralyzer Smart		
Sr. No.: AES2K2KH09	087Y		
Manufacturer: Tulip [Diagnostics (P) Ltd.		
Assessment of compl	ete Installation Quali	fication:	
No Devia	ntions: 🖳 Deviati	ons:	
Deviation	Impact on	Operation	Justification for
Deviation	impact on		Acceptance
			•
this Instrumer instrument ha now be releas	nt is installed success s passed the Installat ed for use.	fully as per the set	
IQ Completed By:	Swarup Ghosh	Date: 10.03.202	3 sizeno coltan.
Deviations Approved By:		Date:	
IQ Approved By:	Tow Day	Date: 18:03:202	3

Operation Qualification For Biochemistry Analyzer (Coralyzer Smart)

Contents

- 1) Safety Tests
- 2) Pre-Run Checks
- 3) Functional Tests
- 4) Training
- 5) Summary Report

1.Safety Tests:

This instrument confirms to the following standards and is supplied fully tested by the Manufacturer.

- Electrical equipment for measurement, control and laboratory use.
- Instrument requirement for laboratory for Blood testing.

The following electrical safety tests should be carried out by a competent person after Installation.

Safety Tests	Pass	Fail	Date	Signed
Earthing	달		10.03.2023	Swanup orhogh
UPS Supply	¥			1- ()2

2.Pre-Run Checks:

Biochemistry Analyzer (Coralyzer Smart)

		N/A
Pre run check	OK	N/A
Printer connection	<u> </u>	
No of cuvettes in reaction	<u></u> ✓	
tray	₩ W	П
Hardware setting		
Reaction cuvette Temp	<u> </u>	
Filter ADC	<u> </u>	Ц

3. Functional Tests: Coralyzer Smart:

Functional Test			
Instrument	Acceptance Criteria	Pass	Fail
	Instrument initializes after		
power ON	clicking on Device Reset & shows		
	in the screen below:		
	Tax 1-spec and specific to the	yes	
Reaction Tray	Movement	团	
Reagent/Mixer	Movement	Image: Control of the	
Arm			
Reagent/	Movement	Image: Control of the	
Sample tray			
Wash Arm	Movement	Y	
Water/Waste	Suction / Noise level	Y	
Pump			

4.Training:

Trained Operators	Read Operator Manual	Read SOP	Practical Training	Authorizing Signature
	,			Seyron Mandal.
Serman	~			Mandal.

Performance Qualification For (Coralyzer Smart)

Contents

- 1) Performance Check
- 2) Routine Maintenance
- 3) Safety Tests
- 4) Summary Report

1) Performance Check:

Bio-chemestry Analyzer (Coralyzer Smart)

io-chemestry An	alyzer (Coralyzer Smart)			
	2 ti vita	Pass	Fail	
Functional Test	Acceptance Criteria Login the software and shows the			
nstrument	Logili the solution			
oower ON	main menu as seen below:			
	THE FRANCE CONTINUES TO THE PROOF TO THE WAR SOFT TO THE AREA TO T	yes		
	Movement / Positioning		Image: Control of the	
Reaction Tray	Movement / Positioning		団	
Reagent /	Movement		<u> </u>	
Sample tray	Mayoment			
Wash Arm	Movement		团	
Reagent / Mixer	Movement			П
Arm			Y	
Test	EP / KIN and FXT , minimum			
Repeatability.	repeats of 5 each			

2) Routine Maintenance:

This instrument has been designed for Blood Testing. If any fault occurs, it is advised to contact Tulip Diagnostics Service Engineer.

The frequency with which routine maintenance tasks are being completed should be recorded below.

D. Line Maintonance	Date	Done	Not Done
Routine Maintenance	5/23	~	
1st Routine visit.	31		
, posting visit	9/23	•	
Doubline visit	1/2024		
229 Kend			

3) Safety Tests:

This instrument confirms to the following standards and is supplied fully tested by the Manufacturer.

- Electrical equipment for measurement, control and laboratory use.
- Instrument requirement for laboratory for Blood testing.

The following electrical safety tests should be carried out by a competent person after Installation.

Safety Tests	Pass	Fail	Date	Signed
Earthing	Image: Control of the		10.03.2023	Barry Gran
UPS Supply	Image: Control of the			Solies

<u>4)</u>	Sun	nmary	∠ Re	port	t :

Instrument Name: Coralyzer Smart.

Sr. No: **AES2K2KH09087Y**

Manufacturer: Tulip Diagnostics (P) Ltd.

Assessment of complete Performance Qualification:

No Deviations:	Y	Deviations:	
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Deviation	Impact on Operation	Justification for Acceptance

Successful completion of the preceding activities and checks indicates that this Instrument is operating satisfactorily following delivery and installation. The instrument has passed the Operational Qualification procedure and may now be released for use.

PQ Completed By:	Swanup Ghosh	Date: 10.03.2013	Stand Colege
Deviations Approved By:		Date:	Coeid qui
PQ Approved By:	Joy Das	Date: 10.03.2023	

	Acceptance
Succession	
Successful completion of the preceding action	
Instrument is one	
inal COUPERATION PROCESSING South	

Instrument is operating satisfactorily follow: