Catalog

mart calibration.pdf ······	1
SMART IQ OQ PQ.pdf ······	2
IQ.pdf ·····	2
IQ1.pdf ·····	2
IQ2.pdf ·····	8
OQ.pdf 1	0
PQ.pdf	18

a PerkinElmer company

CIN: U85195GA1988PTC005717

To **Sri Virudhai Medical centre** 103/49, South Fort street, **Vriddhachalam** 606001 Chennai Office:

Plot No. 1200 (1st Floor), Z-Block, 6th Avenue, 14th Streat, Annanagar, Chennai - 600 040, INDIA. Tel.: (044) 26193125, 26286467.

Tel.: (044) 26193125, 2628648 E-mail: tulipmds@gmail.com

Coralyzer Series Fully Automatic Biochemistry Analyzer, Inspection/calibration Report

Test QC refer to: <<Coralyzer Series Fully Automatic Analyser>> Registered Standard Model: Cralyzer Smart, S/N: AES2KOKH12171F

;-	Inspection Item		Criterion of QC test		Result	Conclusion
-		COUTEDIA OF OCTE	CT.			Condition
		CRITERIA OF QC TEST				
		a) Analytical method may analyse 40 pos at the same time.			OK	
		b) Programming ite	r <mark>m</mark>		OK	
		c) Automatic prior	OK			
		d) Calibration linea	d) Calibration linearity/non-linearity multi point calibration.			
		e) QC at may opera	te most of QC at same item.		OK	
1	Software functions	g)Storage			OK	PASS
		h) Printer multiple	report formats available, user can se	elf edit report formats.	OK	17.00
		i) STAT			ок	
		j) Sample dilute/red	heck.		OK	
		Control of the Contro	probe liquid check.		OK	
		I) Mixing function.			OK	
			query, quality control chart, the whol	e process	OK	
		n) Crash gard funct	The second secon	e process	OK	
2	Dark Abs	Absorbance >= 3.4			5.8	ОК
	Linearity range of		orbance should be not less than 3.8	OOA within the	340nm: 5.1	OK
3	absorbance.	relative range of ± 5		oo/ (Widin the	505nm: 4.8	OK
-		Less than ± 0.040A at 1.00A		0.012	OK	
1	Accuracy of absorbance	Less than ± 0.060A at 1500A			0.027	ОК
		Less than ± 0.020A within 0.500A			0.048	ОК
5	Accuracy of	A bearbanes abone	e should be less than 0.005A/min		340nm: 0.003A	OK
)	absorbance	Absorbance change	e should be less than 0.005A/min		505nm: 0.002A	OK
3	Reproducibility of absorbance	cofficient of variatio	n cv ≦ 3%		2.73%	ок
,	Temperature of	accuracy less than	than ± 0.1° C		37'C	OK
	reaction cuvette 37	Fluctuate of temper	ature less than ± 0.1°C		0.005'C	ОК
3	Teperature of reagent storage	Under normal work	condition, reagent storage should b	e 2-8°C	6.0°C	ок
)	Carryover	0.05% Sample carr	yover less than 0.05%		PASS	
		Items	Concentration	CV		
0	Accuracy of	UREA	106	≦ 3%	1.30%	ОК
	paranieter	GLUC SGOT	38	≦ 3%	1.20%	OK
		Section 1911		≦ 3%		OK
1	Apperance	 a) Whole appearance of the surface should not have obvious mechanical abrasion corrosion and surface coating spalling. b) All connections are stable and fixed well. c) Moving parts running smooth and keypad works well 			PASS	
2	Protect ground connect	The impedance between ground outlet from power supply net and ground protected touchable metal should not more than 0.1 Ω			PASS	
3	Power grid, power supply, circuit		Iz the sine 230V alternating voltage r brakdown or occur electric arcing	test, continue	PASS	27

Inspection/Calibration date: 08.09.21

Check: Ramesh S

re-check:Ramesh 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 access chemistry, Multichannel photometer capable of measuring absorbance of contents in microcuvettes.		 ✓Yes □No
2	Typical working volume For cuvettes	300 micro ltr		YES
3	Filter range	340 to 700 nm		YES
4	Communication port	USB- Interface		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

2) Environment Condition

Has the Instrument been adequately acclimatized since transport or storage?

YES: ☐ NO: ☐

Operating Parameters	Specified Range	Conditions Met
Ambient Temperature	10 to 30 degrees	YES: ☑ NO: □
Maximum Relative Humidity	30% to 80 %	YES: ☑ NO: □
Supply Voltage & Frequency	220-230V, 50 Hz ac	YES: ☑ NO: □

3) <u>Instrument Delivery and Documentation</u>

Inpack the Instrument carefully.	Are any items missing	g against the Packing List?
		NO: ☑
YES: □		
yes, state the missing Items:		
there any damage to the Instru	ument or Accessories?	
YES:		NO: ☑
yes: Description of Damage:		
Corrective Action:		
Manufacturing informed:	YES:	NO: □
all Standard Documentation Ir	ncluded?	
perating Manual:	Present: ☑	Missing:
Varranty Card:	Present: ☑	Missing: □
all additional documentation	Included:	
	Present: ☑	Missing: 🗆
nstallation Qualification: YES		
Operational Qualification: YES		
A CONTRACTOR OF THE CONTRACTOR		
Performance Qualification: YES		

Tulip Diagnostics (P) Ltd	Tulip	Diagnostics	(P)	Ltd
---------------------------	-------	-------------	-----	-----

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 Easily accessible	YES: ☑	NO: □	
Beware of moving parts during working	YES:	NO: □	
Do not use Heat material that could cause fire or other Hazards	YES: ☑	N <mark>O</mark> : □	
Read Operator Manual before use	YES: 🗹	NO:	

5) Assembly and Installation

Assembled and installed By:	User:		Specialized Engineer: YES	
Installation Procedure :		Yes ☑	N/A	
Unpack and retain Packaging -				
Verifying the site before connecting to power	r supply-			
Checking the instrument before performing t	he Test-			

6) Summary Report

Instrument Name: Coralyzer Smart

Sr. No.:AES2K0KH12171F.

Manufacturer: Tulip Diagnostics (P) Ltd.

Assessment of complete Installation Qualification:

No Deviations:

Deviations:

Deviation	Impact on Operation	Justification for Acceptance
NIL		3

Successful completion of the preceding activities and checks indicates that this Instrument is installed successfully as per the set protocol. The instrument has passed the Installation Qualification procedure and may now be released for use.

IQ Completed By:	RAMESH S	Date: 08.09.21	6/100/2
Deviations Approved By:		Date:	
IQ Approved By:	RAMESH S	Date: 08.09.21	S. Diginglo

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			08.09.21	1 ()-10
UPS Supply				2. Vo81

2) Pre-Run Checks

Biochemistry Analyzer (Coralyzer Smart)

Pre run check	OK	N/A
	\square	
Printer connection	<u> </u>	
No of cuvettes in reaction tray		
Hardware setting	V	
Reaction cuvette Temp	M	
Filter ADC		

3) Functional Tests : Coralyzer Smart.

Functional Test	Acceptance Criteria	Pass	Fail
Instrument power ON	Instrument initializes after clicking on Device Reset & shows in the screen below:	PASS	
Reaction Tray	Movement	\square	
Reagent/Mixer Arm	Movement	\square	
Reagent/ Sample tray	Movement	\square	
Wash Arm	Movement	\square	
Water/Waste Pump	Suction / Noise level	✓	

4) Training

Trained Operators	Read Operator Manual	Read SOP	Practical Training	Authorizing Signature
G.RAJA	YES	YES	YES	2
AMBIKA	YES	YES	YES	Sit

5)	Summary	Report

Instrument	Name: Cora	lyzer Smart.
------------	------------	--------------

Sr. No.:AES2K0KH12171F

Manufacturer: Tulip Diagnostics (P) Ltd.

Assessment of complete Operational Qualification:

No Deviations: ☐ Deviations: ☐

Deviation	Impact on Operation	Justification for Acceptance
NIL		

Successful completion of the preceding activities and checks indicates that this Instrument is operating satisfactorily following delivery and installation.

Tulip Diagnostics (P) Ltd.

The instrument has passed the Operational Qualification procedure and may now be released for use.

OQ Completed By:	RAMESH S	Date: 08.09.21	Sign:
Deviations Approved By:		Date:	Sign:
OQ Approved By:	RAMESH S	Date: 08.09.21	Sign:

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)

Functional Test	Acceptance Criteria	Pass	Fail
Instrument power ON	Login the software and shows the main menu as seen below: **GROUND SECRETARY SECRETAR	PASS	
Reaction Tray	Movement / Positioning	✓	
Reagent / Sample tray	Movement /Positioning	✓	
Wash Arm	Movement		
Reagent /Mixer Arm	Movement		
Test Repeatability.	EP / KIN and FXT , minimum repeats of 5 each	\square	

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.

Routine Maintenance	Date	Done	Not Done
GENERAL ROUTINE SERVICE	08.09.21	DONE	

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			08.09.21	(1) 92
UPS Supply	\square			2:158.01

4) Summary Report

nstrument Name: Coralyzer Smart	6	
r. No.:AES2K0KH12171F		
Manufacturer: Tulip Diagnostics (P	Ltd.	
Assessment of complete Performan	nce Qualification:	
lo Deviations:	Deviations:	
Deviation	Impact on Operation	Justification for Acceptance
IL		
NIL:		

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.

RAMESH S	Date:	08.09.21
	Date:	
RAMESH S	Date:	08.09.21
		Date:

Comments:

5. 508/09/27