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Coralyzer Series Fully Automatic Biochemistry Analyzer, Inspection/calibration Report

Test QC refer to: <<Coralyzer Series Fully Automatic Analyser>> Registered Standard Model: Coralyzer Junior, S/N: AES2KOKH12056

SRI SAMRAJ LAB'S , CUDDALORE

Meter used for calibration / Meter Number: TU/INST/REG/PMO/004

Cal Date:- 30.11.21

Due Date:-29.11.22

Inspection Item	Criterion of QC test	Result	Conclusion			
	a) Analytical method may analyse 40 pos at the same time. b) Programming item c) Automatic priority inspect of emergency sample. d) Calibration linearity/non-linearity multi point calibration. e) QC at may operate most of QC at same item. g)Storage h) Printer multiple report formats available, user can self edit report formats. i) STAT j) Sample rerun/recheck. k) Sample /reagent probe liquid check. l) Mixing function. m)Results storage,query,quality control chart,the whcle process n) cuvette condetion. o) Crash gard function.	OK OK OK OK OK OK OK OK OK OK OK OK OK	PASS			
2	Dark Abs	Absorbance >= 3.400 A	5.2 OK			
3	Linearity range of absorbance.	The maximum absorbance should be not less than 3.700A within the relative range of ± 5%	340nm: 5.1 OK			
			505nm: 4.8 OK			
4	Accuracy of absorbance	Less than ± 0.040A at 1.00A	0.012 OK			
		Less than ± 0.060A at 1500A	0.027 OK			
		Less than ± 0.020A within 0.500A	0.048 OK			
5	Accuracy	Absorbance change, should be less than 0.005A/min	340nm: 0.003A OK			
			505nm: 0.002A OK			
6	Reproducibility of absorbance	cofficient of variation $cv \leq 3\%$	2.73% OK			
7	Temperature of reaction cuvette 37	Accuracy less than than ± 0.1° C	37°C OK			
		Fluctuate of temperature less than ± 0.1°C	0.005°C OK			
8	Teperature of reagent storage	Under normal work condition, reagent storage should be 2-8°C	6.0 °C OK			
9	Carryover	Sample carryover less than 0.05%	PASS			
10	Accuracy of parameter	Items	Concentration	CV		
		UREA	76.3-109.9	≤ 3%	1.30%	OK
		GLUC	81.0-116.6	≤ 3%	1.20%	OK
		SGOT	55-87	≤ 3%	2.70%	OK
11	Apperance	a) Whole appearance of the surface should not have obvious mechanical abrasion, corrosion and surface coating spalling.	PASS			
		b) All connections are stable and fixed well.				
		c) Moving parts running smooth and CPU working well.				
12	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			
13	Power grid, power supply, circuit	Basic insulation:50Hz the sine 230V alternating voltage test. should not apper brakdown or occur electric arcing.	PASS			

Inspection/Calibration date: 30.11.21

Check: S Nishanth

re-check: S Nishanth

