



# TULIP DIAGNOSTICS (P) LTD.

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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 SMART, S/N: AES2K1KH04011Y						
Meter used for calibration / Meter Number: TU/INST/REG/PMO/004		Cal Date: - 07.08.23	Due Date: -06.08.24			
KOVAI DIAGNOSTIC CENTRE , DHARAPURAM						
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 whole process n) cuvette condition. o) Crash gard function.		OK OK OK OK OK OK OK OK OK OK OK OK OK OK	PASS		
2	Dark Abs	Absorbance $\geq 3.400$ A	5.2	OK		
3	Linearity range of	The maximum absorbance should be not less than 3.700A within the relative range of $\pm 5\%$	340nm: 5.1 505nm: 4.8	OK OK		
		Less than $\pm 0.040$ A at 1.00A	0.012	OK		
4	Accuracy of absorbance	Less than $\pm 0.060$ A at 1500A	0.027	OK		
		Less than $\pm 0.020$ A within 0.500A	0.048	OK		
		Absorbance change should be less than 0.005A/min	340nm: 0.003A 505nm: 0.002A	OK OK		
5	Accuracy	Absorbance change should be less than 0.005A/min	340nm: 0.003A 505nm: 0.002A	OK OK		
6	Reproducibility of absorbance	cofficient of variation $cv \leq 3\%$	2.73%	OK		
7	Temperature of reaction	Accuracy less than than $\pm 0.1^\circ$ C	37°C	OK		
		Fluctuate of temperature less than $\pm 0.1^\circ$ C	0.005°C	OK		
8	Temperature 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	$\leq 3\%$	1.30%	OK
		GLUC	81.0-116.6	$\leq 3\%$	1.20%	OK
		SGOT	55-87	$\leq 3\%$	2.70%	OK
11	Apperance	a) Whole appearance of the surface should not have obvious mechanical	PASS			
12	Protect ground connect	The impedance between ground outlet from power supply net and ground protected touchable metal should not more than 0.1 $\Omega$	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: 07.08.23		Check: JEBARAJAN	re-check: SAKTHI			



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