PROFICIENCY TESTING REPORT

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited program as per ISO/IEC 17043:2010 standard

Organized By Department of Hematology, AIIMS, New Delhi 110029

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 4210

Instrument ID: BECKMAN COULTER

Distribution No.: 162-K

Model Name.: DXH560

Month/Year: January/2024

Serial No.: BD090062

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 28-03-2024[Final].

CBC and Retic Assessment

Test Parameters	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10^3/µl	1	3.23	3.22	6.45	7	0.028	-0.77	0.01	0.1	0.006	-1.10
RBC x10^6/µl	1	4.38	4.3	8.68	8.85	0.012	-0.60	0.08	0.04	0.003	0.90
Hb g/dl	1	9.19	9.17	18.36	18.1	0.022	0.47	0.02	0.1	0.007	-1.08
HCT%	1	30.4	29.9	60.3	61.4	0.125	-0.34	0.5	0.3	0.025	0.51
MCV-fl	1	69.6	69.4	139	138.9	0.202	0.02	0.2	0.3	0.023	-0.27
MCH-Pg	1	21.4	20.9	42.3	40.8	0.063	0.96	0.5	0.2	0.013	2.02
MCHC-g/dl	1	30.7	30.2	60.9	58.8	0.123	0.65	0.5	0.3	0.019	0.67
Plt. x10^3/µl	1	214	209	423	406.5	2.119	0.30	5	7	0.493	-0.27
Retic %	2	12.5	12.3	24.8	21.5	0.322	0.44	0.2	0.5	0.042	-0.51

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=4 , Poly=12 L=7, E=1, Mono/Promono=8 , B1=72 P.M.=0, Mye=0, Meta=0, Other=0	Blast: 21-86, Lympho: 3-10, Mono: 1-14, Poly: 1-6, nRBC/Eos/Baso/Myelo/Meta/ Promyelo: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC , MICROCYTIC HYPROCHROMIC	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic, poikilocytosis
Diagnosis	3	ACUTE LEUKEMIA	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--K	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC $x10^3/\mu l$	1	268	267	88.76	91.76	3	4.12	8.24	4.12
RBC $x10^6/\mu l$	1	268	268	89.55	91.04	6.34	2.61	4.11	6.35
Hb g/dl	1	268	268	93.66	92.54	2.24	3.73	4.1	3.73
HCT%	1	268	266	92.48	90.6	5.26	4.14	2.26	5.26
MCV-fl	1	268	266	89.47	93.61	5.64	3.38	4.89	3.01
MCH-Pg	1	268	265	88.68	88.68	7.17	6.42	4.15	4.9
MCHC-g/dl	1	268	266	92.11	89.1	5.26	3.01	2.63	7.89
Plt. $x10^3/\mu l$	1	268	266	93.98	91.73	2.63	5.26	3.39	3.01
ReticCount%	2	268	223	87.89	83.86	10.31	11.21	1.8	4.93
PS Assessment	3	268	220	Satisfactory :95.91%, Borderline Sat. :0.74%, Unsatisfactory :3.35%					

*Comments:

1). Among Lab (EQA) : **Results acceptable.**

2). Within Lab (IQA) : **Precision acceptable.**

Note-1: EQA (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.
IQA (Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

Note-2: Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values - Consensus Result sum of two values)/(Normalised IQR)
Z score within lab (IQA)= (Your Result Difference of two values - Consensus Result difference of two values)/(Normalised IQR)
IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

Note-3: Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

Note-4: Z score value between"0 to ±2" are texted in green colour. Z score value between"±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

Note-5: Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ($\bar{x}$-$\bar{y}$) should be smaller than the check value (0.3*SDPA).

Note-6: ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

Note-7: Participants are free to use methods/analyzer of their own choice.

Note-8: Proficiency testing (PT) samples are sent quarterly to each participant.

Note-9: All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

----------End Of Report----------