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

PC-1002

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

EQAP CODE No. : 3268 **Distribution No.:** 162-I **Month/Year:** January/2024

Instrument ID: BECKMAN COLTER **Model Name.:** DXH800 **Serial No.:** SNRBC21066

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

Date of issue & status of the report: 20-03-2024[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	5.6	5.5	11.1	9.5	0.047	2.16	0.1	0.1	0.009	0.00
RBC x10^6/µl	1	3.79	3.73	7.52	7.66	0.014	-0.63	0.06	0.03	0.004	0.81
Hb g/dl	1	12.6	12.5	25.1	25.5	0.039	-0.67	0.1	0.1	0.012	0.00
HCT%	1	40.7	40.1	80.8	80.7	0.289	0.02	0.6	0.4	0.038	0.54
MCV-fl	1	107.6	107.4	215	209.6	0.687	0.42	0.2	0.3	0.034	-0.27
MCH-Pg	1	33.8	33	66.8	66.2	0.110	0.31	0.8	0.3	0.024	2.25
MCHC-g/dl	1	31.4	30.8	62.2	63.2	0.233	-0.22	0.6	0.3	0.028	1.01
Plt. x10^3/µl	1	195	193	388	381.5	2.344	0.17	2	5	0.500	-0.51
Retic %	2	16	15	31	18.2	0.462	1.64	1	0.5	0.054	0.84

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=6 L=92, E=1, Mono/Promono=1 , B1= P.M.=, Mye=, Meta=, Other=	Lymp: 84-92, Poly: 6.5-11, nRBC/Blast/Myelo/Meta/Mono/Eosino: 0-5
RBC Morphology	3	normochromic normocytic	Predominantly: Normocytic/Normochromic with Mild Anisocytosis, Smudge Cells.
Diagnosis	3	chronic lymphocytic leukemia. Adv:- Immunophenotyping	Chronic Lymphoproliferative Disorder/CLL

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--I	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 $x10^3$/µl	1	138	138	82.61	87.68	3.62	8.7	13.77	3.62
RBC $x10^6$/µl	1	138	138	87.68	89.13	7.25	4.35	5.07	6.52
Hb g/dl	1	138	138	85.51	85.51	9.42	7.25	5.07	7.24
HCT%	1	138	137	93.43	87.59	4.38	7.3	2.19	5.11
MCV-fl	1	138	137	95.62	94.16	3.65	2.19	0.73	3.65
MCH-Pg	1	138	137	88.32	93.43	4.38	2.92	7.3	3.65
MCHC-g/dl	1	138	137	92.7	93.43	6.57	4.38	0.73	2.19
Plt. $x10^3$/µl	1	138	138	89.86	91.3	7.25	5.07	2.89	3.63
ReticCount%	2	138	125	92.8	88.8	4	8.8	3.2	2.40
PS Assessment	3	138	126	Satisfactory :91.99%, Borderline Sat. :2.91%, Unsatisfactory :5.10%					

*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,

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