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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 3297 **Distribution No.:** 154-I **Month/Year:** December/2021

Instrument ID: BC30(UD94000739)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 09-03-2022[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	6.23	6.14	12.37	13.1	0.0630	**-0.90**	0.09	0.1	0.0190	**-0.06**
RBC x10^6/µl	1	4.29	4.26	8.55	8.46	0.0150	**0.45**	0.03	0.05	0.0060	**-0.39**
Hb g/dl	1	13.2	13.2	26.4	26.35	0.0560	**0.07**	0	0.1	0.0150	**-0.67**
HCT%	1	43.7	42.7	86.4	81.6	0.3120	**0.98**	1	0.5	0.0660	**0.84**
MCV-fl	1	101.7	100.4	202.1	193.65	0.5570	**1.02**	1.3	0.3	0.0400	**2.70**
MCH-Pg	1	31	30.8	61.8	62.05	0.1270	**-0.13**	0.2	0.3	0.0320	**-0.34**
MCHC-g/dl	1	31	30	61	64.8	0.2700	**-0.92**	1	0.2	0.0340	**2.70**
Plt. x10^3/µl	1	149	141	290	244	2.15	**1.35**	8	6	0.59	**0.45**
Retic %	2			0							

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Blast: 60-85, Poly: 2-6, Lympho: 6-21, nRBC/mono/Eosino/Myelo/Meta/promyelo: 0-1
RBC Morphology	3		Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3		Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 154--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	110	109	79.82	82.57	5.5	4.59	14.68	12.84
RBC $x10^6$/µl	1	110	110	83.64	90	10	6.36	6.36	3.64
Hb g/dl	1	110	110	80.91	89.09	5.45	6.36	13.64	4.55
HCT%	1	110	110	93.64	90	4.55	5.45	1.81	4.55
MCV-fl	1	110	110	90	86.36	9.09	4.55	0.91	9.09
MCH-Pg	1	110	110	86.36	90.91	3.64	8.18	10	0.91
MCHC-g/dl	1	110	110	90	82.73	7.27	7.27	2.73	10
Plt. $x10^3$/µl	1	110	109	92.66	87.16	5.5	9.17	1.84	3.67
ReticCount%	2	110	110	87.27	90	10	5.45	2.73	4.55
PS Assessment	3	110	104	Satisfactory :95.47%, Borderline Sat. :0.90%, Unsatisfactory :3.63%					

*Comments:

1). Among Lab (EQA) : Results acceptable. PS Diagnosis not reported

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.

Report authorized by,

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