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. : 162

Instrument ID: swelab alfa 23115 **Distribution No.:** 156-B **Month/Year:** April/2022

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: 08-07-2022[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	4.5	4.3	8.8	8.3	0.0320	**0.58**	0.2	0.1	0.0060	**1.02**
RBC x10^6/µl	1	3.74	3.73	7.47	7.2	0.0070	**1.46**	0.01	0.03	0.0020	**-0.67**
Hb g/dl	1	12.8	12.6	25.4	24.5	0.0210	**1.35**	0.2	0.1	0.0070	**1.35**
HCT%	1	40.7	40.7	81.4	78.2	0.1440	**0.78**	0	0.3	0.0210	**-0.81**
MCV-fl	1	109	108.9	217.9	216.65	0.3190	**0.14**	0.1	0.3	0.0230	**-0.45**
MCH-Pg	1	34.2	33.9	68.1	68	0.0710	**0.05**	0.3	0.2	0.0180	**0.34**
MCHC-g/dl	1	31.4	31	62.4	62.65	0.1230	**-0.07**	0.4	0.2	0.0110	**0.90**
Plt. x10^3/µl	1	135	129	264	255	1.10	**0.30**	6	5	0.29	**0.19**
Retic %	2	8	7.4	15.4	15.5	0.21	**-0.02**	0.6	0.4	0.02	**0.42**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=7 L=8, E=00, Mono/Promono=11 , B1=74 P.M.=00, Mye=00, Meta=00, Other=00	Blast: 83-94, Poly: 2-4, Lympho: 3-9, nRBC/mono/Eosino/Myelo/Meta/promyelo: 0-2
RBC Morphology	3	omocytic normochromic	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic, Tear drop cells
Diagnosis	3	myloproliferative disorder	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--B	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	359	356	88.2	89.04	3.37	3.65	8.43	7.31
RBC x10^6/µl	1	359	359	86.07	87.47	6.13	7.24	7.8	5.29
Hb g/dl	1	359	359	87.47	89.97	3.9	4.74	8.63	5.29
HCT%	1	359	358	87.99	92.74	5.59	3.63	6.42	3.63
MCV-fl	1	359	357	88.8	93.84	4.76	0.84	6.44	5.32
MCH-Pg	1	359	357	84.03	87.68	7	7.84	8.97	4.48
MCHC-g/dl	1	359	357	89.92	87.39	3.64	5.32	6.44	7.29
Plt. x10^3/µl	1	359	357	88.8	92.72	7.28	4.48	3.92	2.8
ReticCount%	2	359	333	93.69	94.29	5.71	4.2	0.6	1.51
PS Assessment	3	359	346	Satisfactory :96.95%, Borderline Sat. :0.83%, Unsatisfactory :2.22%					

Comments:

1). Among Lab (EQA) : PS Diagnosis partially correct, remaining 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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