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. : 2812 **Distribution No.:** 147-G **Month/Year:** June/2019

Instrument ID: SWELAB ALFA PLUS 1420041

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: 28-08-2019[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	5.4	11	11.4	0.0400	**-0.41**	0.2	0.1	0.0090	**0.79**
RBC x10^6/µl	1	3.32	3.21	6.53	6.67	0.0080	**-0.65**	0.11	0.03	0.0050	**2.16**
Hb g/dl	1	11.9	11.9	23.8	23.8	0.0260	**0.00**	0	0.1	0.0080	**-0.67**
HCT%	1	43.7	42.6	86.3	79.4	0.3470	**0.81**	1.1	0.4	0.0290	**1.35**
MCV-fl	1	132.6	131.7	264.3	238.5	1.0280	**1.03**	0.9	0.4	0.0420	**0.75**
MCH-Pg	1	37.3	35.1	72.4	71.6	0.1130	**0.33**	2.2	0.3	0.0280	**5.13**
MCHC-g/dl	1	28.1	27.2	55.3	60	0.2680	**-0.75**	0.9	0.2	0.0250	**2.36**
Plt. x10^3/µl	1	165	161	326	393	1.59	**-1.80**	4	5	0.41	**-0.19**
Retic %	2	3.5	3	6.5	15.75	0.34	**-1.09**	0.5	0.5	0.05	**0.00**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=01 , Poly=63 L=03, E=-, Mono/Promono=02 , B1=- P.M.=02, Mye=12, Meta=18, Other=-	Poly: 65-75, Lymph: 2-8, nRBC/Eo/Mono/Pro/Blast: 0-5, Myelo: 2-6, Meta: 4-10
RBC Morphology	3	-	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Hypochromic
Diagnosis	3	Chronic Myeloproliferative Disorder , ?CML ADVICE: BCR/ABL FUSION GENE ANALYSIS , LAP SCORE	Chronic Myeloid Leukemia-Chronic Phase [CML-CP]

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	350	260	87.69	83.85	5.38	6.54	7.31	10
RBC x10^6/µl	1	350	260	88.85	91.15	4.23	3.46	7.31	5.38
Hb g/dl	1	350	260	92.31	86.15	3.85	7.69	4.23	6.54
HCT%	1	350	260	92.31	84.62	5.77	7.31	1.54	8.08
MCV-fl	1	350	260	91.15	85.77	8.08	6.15	0	7.69
MCH-Pg	1	350	260	85	91.92	6.54	3.46	8.08	4.23
MCHC-g/dl	1	350	260	94.23	90	3.85	5.77	1.54	3.85
Plt. x10^3/µl	1	350	260	89.23	88.46	6.15	8.08	5	3.85
ReticCount%	2	350	231	93.07	83.12	4.33	9.52	3.46	8.23
PS Assessment	3	350	248	Acceptable:91.7%,Warning Signal:5.4%,Unacceptable :2.9%					

***Comments:**

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

2). Within Lab (IQA) : Difference in the CBC measurement values for *MCH* unacceptable, may be due to random/human error.

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,

Dr. R. Saxena
Prof & Head, Hematology, AIIMS, Delhi.
PT Co-ordinator: ISHTM-AIIMS-EQAP

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