ISHTM

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.: 285 **Distribution No.:** 147-A **Month/Year:** April/2019

Instrument ID: Swelab Alfa (Sl. no. 16156)

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

Date of issue & status of the report: 22-05-2019[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	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values	Z Score
WBC x10^3/µl	1	4.0	4.0	8	7.81	0.16	0	0.1	-1.5
RBC x10^6/µl	1	3.81	3.79	7.6	7.72	-0.74	0.02	0.03	-0.34
Hb g/dl	1	13.9	13.7	27.6	27.5	0.17	0.2	0.1	1.35
HCT%	1	42.5	42.4	84.9	87.1	-0.35	0.1	0.3	-0.54
MCV-fl	1	111.9	111.5	223.4	224.75	-0.1	0.4	0.2	0.45
MCH-Pg	1	36.4	36.3	72.7	71.35	0.73	0.1	0.2	-0.45
MCHC-g/dl	1	32.6	32.4	65	63.2	0.43	0.2	0.2	0
Plt. x10^3/µl	1	111	104	215	262	-0.83	7	4	0.81
Retic Count %	2	2.7	2.6	5.3	4.6	0.25	0.1	0.2	-0.45

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=01 per 100 WBC's , Poly=59/-/11 L=05, E=02, Mono/Promono=03 , B1=02 P.M.=03, Mye=10, Meta=05, Other=WBC's are markedly increased in no. with moslty mature cells and some immature cells of myeloid series, Occasional smear cells, Platelets adequate in no.	Poly: 60-70, Lymph: 2-6, nRBC/Eo/Mono/Blast/Pro: 0-5, Myelo: 6-12, Meta: 6-12, Baso: 2-5
RBC Morphology	3	Mild to moderate hypochromic cells, some anisocytosis with many microcytes and some microcytes,Occasional poikilocytosis & polychromasia with occas. crenated RBC's, no nucleated RBC's seen	Predominantly: Normocytic & Normochromic, Anisocytosis. Moderate: Microcytic. Mild: Hypochromic
Diagnosis	3	Chronic Myeloid Leukaemia	Chronic Myeloid Leukemia (Chronic Phase)

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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 $x10^3/\mu l$	1	450	407	90.42	91.4	4.67	5.65	4.91	2.95
RBC $x10^6/\mu l$	1	450	407	89.93	85.01	4.67	6.88	5.41	8.11
Hb g/dl	1	450	407	86.98	86	7.37	7.37	5.65	6.63
HCT%	1	450	407	94.59	87.47	4.42	6.39	0.98	6.14
MCV-fl	1	450	406	94.33	89.41	3.69	3.94	1.97	6.65
MCH-Pg	1	450	404	91.83	82.92	5.2	7.67	2.97	9.41
MCHC-g/dl	1	450	406	96.06	86.95	2.71	5.67	1.23	7.39
Plt. $x10^3/\mu l$	1	450	406	93.6	86.7	2.96	8.13	3.45	5.17
ReticCount%	2	450	348	89.08	85.92	4.31	2.59	3.74	8.62
PS Assessment	3	450	408	Acceptable:96.8%,Warning Signal:3.2%,Unacceptable :0%					

***Comments:**

1). Among Lab (EQA) : Acceptable Results

2). Within Lab (IQA) : Acceptable Precision.

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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PT Co-ordinator: ISHTM-AIIMS-EQAP

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