



PROFICIENCY TESTING REPORT
ISHBT-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
 NABL Accredited (HISTOLOGY) as per ISO 15189:2013 Standard
 Organized By Department of Hematology, AIIMS, New Delhi-110029



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

EQAP CODE No. : 735

Distribution No.: 149-A

Month/Year: November/2019

Instrument ID: 1 COUNT 5

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Date of issue & status of the report: 11-12-2019[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	9.7	9.6	19.3	15.5	0.0400	3.20	0.1	0.1	0.0080	0.00
RBC x10 ⁶ /µl	1	4.7	4.6	9.3	9.44	0.0060	-0.73	0.1	0.04	0.0020	1.62
Hb g/dl	1	11.6	11.4	23	23.1	0.0160	-0.22	0.2	0.1	0.0060	1.35
HCT%	1	34.2	33.9	68.1	76.7	0.1220	-2.43	0.3	0.38	0.0200	-0.29
MCV-fl	1	72.8	72.1	144.9	162.15	0.2270	-2.47	0.7	0.3	0.0210	0.90
MCH-Pg	1	24.6	24.4	49	49.1	0.0380	-0.09	0.2	0.2	0.0090	0.00
MCHC-g/dl	1	33.9	33.7	67.6	60.4	0.0960	2.63	0.2	0.3	0.0470	-0.34
Plt. x10 ³ /µl	1	420	409	829	1028	2.79	-2.35	11	8	0.49	0.37
Retic %	2	5.9	5.3	11.2	19	0.31	-0.86	0.6	0.5	0.03	0.17

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=02/100WBC, Poly=---, L=06%, E=---, Mono/Promono=---, B1=90% P.M.=---, Mye=---, Meta=---, Other=---
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC
Diagnosis	3	ACUTE LEUKEMIA(MORPHOLOGICALLY ACUTE MYELOID LEUKEMIA)
		Blast: 80-90, Poly: 5-7, Lymph: 2-7, Eo/Mono/Pro/My/Meta: 0-4
		Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic
		Acute Leukemia (myeloid lineage)

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	450	385	88.57	83.9	5.71	5.19	4.94	10.13
RBC x10 ⁶ /μl	1	450	385	90.91	90.65	4.42	4.16	4.42	4.94
Hb g/dl	1	450	385	87.79	92.21	8.31	3.9	3.64	3.64
HCT%	1	450	385	88.31	88.31	8.05	4.68	2.86	6.23
MCV-fl	1	450	385	90.13	91.17	5.19	3.64	4.42	4.94
MCH-Pg	1	450	385	89.35	92.99	6.75	4.16	3.64	2.6
MCHC-g/dl	1	450	385	89.61	93.51	7.01	3.38	3.12	2.6
PLT. x10 ³ /μl	1	450	385	92.99	90.13	4.68	4.94	2.08	4.68
ReticCount%	2	450	351	96.58	88.03	4.27	8.55	0.57	5.41
PS Assessment	3	450	367	Acceptable:96%,Warning Signal:2.9%,Unacceptable :1.1%					

Comments:

1). Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error

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.ishtmaimseqap.com.

Report authorized by,



Dr. R. Saxena

Prof & Head, Hematology, AIIMS, Delhi.

PT Co-ordinator: ISHTM-AIIMS-EQAP

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