



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



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

EQAP CODE No. : 4437

Distribution No.: 159-L

Month/Year: April/2023

Instrument ID: 20207

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Date of issue & status of the report: 13-06-2023[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	4.15	4.06	8.21	7.96	0.031	0.31	0.09	0.1	0.005	-0.11
RBC x10 ⁶ /µl	1	4.33	4.33	8.66	8.96	0.010	-1.09	0	0.05	0.003	-1.12
Hb g/dl	1	13.2	13.2	26.4	26.3	0.028	0.12	0	0.1	0.007	-1.15
HCT%	1	44.6	44.3	88.9	85.75	0.229	0.48	0.3	0.5	0.025	-0.45
MCV-fl	1	103	102.3	205.3	190.85	0.466	0.98	0.7	0.2	0.020	1.35
MCH-Pg	1	30.5	30.5	61	58.7	0.071	1.07	0	0.2	0.011	-0.90
MCHC-g/dl	1	29.8	29.6	59.4	60.8	0.162	-0.30	0.2	0.3	0.016	-0.34
Plt. x10 ³ /µl	1	130	124	254	251.5	1.160	0.08	6	5	0.327	0.17
Retic %	2										

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Lymp: 80-89, Poly: 9-15, Mono: 1-2, nRBC/blast/Eosino/Myelo/Meta: 0-1
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3		Chronic Lymphocytic Leukemia (CLL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--L	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 x10³/µl	1	346	346	84.68	90.17	4.05	3.47	11.27	6.36
RBC x10⁶/µl	1	346	346	87.57	91.33	8.09	3.76	4.34	4.91
Hb g/dl	1	346	346	90.17	89.31	5.78	6.65	4.05	4.04
HCT%	1	346	346	91.91	91.04	4.91	6.65	3.18	2.31
MCV-fl	1	346	346	93.64	91.33	3.18	4.34	3.18	4.33
MCH-Pg	1	346	346	93.06	92.2	4.62	2.89	2.32	4.91
MCHC-g/dl	1	346	346	92.77	90.17	5.49	3.47	1.74	6.36
Plt. x10³/µl	1	346	346	92.49	90.17	4.91	4.05	2.6	5.78
ReticCount%	2	346	223	92.38	91.48	7.17	2.69	0.45	5.83
PS Assessment	3	346	212	Satisfactory :95.96%, Borderline Sat. :3.18%, Unsatisfactory :0.86%					

***Comments:**

1). Among Lab (EQA) : PS Diagnosis not reported, 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 $> \pm 3$: 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 $> \pm 3$ 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.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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