



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.: 3660 **Distribution No.:** 151-J Month/Year: December/2020

Instrument ID: ELITE 580 (K11051903014)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,

Tel: 9013085730, E-Mail: accuracy2000@gmail.com Date of issue & status of the report: 11-01-2021[Final].

CBC and Retic Assessment

				Amo	ng Lab (Acc	curacy Testir	Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty		Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10³/μl	1	4.18	4.09	8.27	8.4	0.0310	-0.20	0.09	0.1	0.0110	-0.08
RBC x10 ⁶ /μl	1	5.16	5.14	10.3	10.21	0.0160	0.23	0.02	0.04	0.0350	-0.35
Hb g/dl	1	9.5	9.5	19	19	0.0310	0.00	0	0.1	0.0080	-1.35
НСТ%	1	30.4	30.3	60.7	60.2	0.1690	0.13	0.1	0.3	0.0330	-0.45
MCV-fl	1	58.9	58.9	117.8	118.4	0.2120	-0.13	0	0.3	0.0270	-0.67
MCH-Pg	1	18.5	18.4	36.9	37.4	0.0680	-0.29	0.1	0.2	0.0120	-0.67
MCHC-g/dl	1	31.4	31.2	62.6	63.5	0.1590	-0.26	0.2	0.3	0.0260	-0.22
Plt. x10³/μl	1	198	195	393	417.5	2.09	-0.50	3	8.5	0.65	-0.57
Retic %	2	13	12.3	25.3	17.4	0.41	0.84	0.7	0.6	0.05	0.19

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	3	Nrbcs=00 , Poly=04 L=07, E=00, Mono/Promono=04 , B1=85 P.M.=00, Mye=00, Meta=00, Other=00	Blasts: 70-80, Lymph: 5-15, Poly: 2-5, nRBC/Eo/Mono/Pro/My/Meta: 0-5					
RBC Morphology	3		Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic.					
Diagnosis	3	ACUTE LEUKEMIA	Acute Leukemia (Lymphoblastic).					

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	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 x10³/μl	1	350	224	82.59	80.8	3.13	4.02	13.84	14.29	
RBC x10 ⁶ /μl	1	350	224	88.39	89.29	4.02	3.57	6.7	6.25	
Hb g/dl	1	350	224	82.59	91.07	6.7	3.57	10.27	4.91	
HCT%	1	350	224	89.29	<mark>8</mark> 9.73	5.8	2.23	4.02	7.14	
MCV-fl	1	350	224	87.05	90.18	6.7	4.02	5.36	4.91	
MCH-Pg	1	350	224	86.61	85.27	7.14	4.46	5.36	9.38	
MCHC-g/dl	1	350	224	88.39	87.05	8.48	6.25	2.23	5.8	
Plt. x10³/μl	1	350	224	93.3	93.3	3.57	3.13	2.23	3.13	
ReticCount%	2	350	199	93.97	81.91	4.52	16.08	1.51	4.02	
PS Assessment	3	350	209	Acceptable:81.9%, Warning Signal:8.6%, Unacceptable:9.5%						

*Comments:

- 1). Among Lab (EQA): 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 IOR)

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.ishtmaiimseqap.com.

Report authorized by,

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

-----End Of Report-----



PROFICIENCY TESTING REPORT

ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME





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

EQAP CODE No.: 3660 **Distribution No.:** 152-J Month/Year: March/2021

Instrument ID: ELITE 580 (K11051903014)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,

Tel: 9013085730, E-Mail: accuracy2000@gmail.com Date of issue & status of the report: 24-05-2021[Final].

CBC and Retic Assessment

				Amo	ng Lab (Ac	curacy Testir	Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Results	Consensus result sum of 2 values (Assigned Value)	Uncertainty		Results		Uncertainty of Assigned Values	Z Score
WBC x10³/μl	1	7.02	6.81	13.83	13.8	0.0410	0.03	0.21	0.1	0.0110	0.93
RBC x10 ⁶ /μl	1	4.1	4.03	8.13	7.96	0.0110	0.60	0.07	0.04	0.0030	0.67
Hb g/dl	1	11.1	11.1	22.2	21.7	0.0290	0.75	0	0.1	0.0080	-1.35
НСТ%	1	36	35.4	71.4	67.5	0.1620	1.02	0.6	0.4	0.0270	0.54
MCV-fl	1	87.8	87.8	175.6	170.1	0.3220	0.75	0	0.3	0.0300	-0.51
MCH-Pg	1	27.6	27	54.6	54.7	0.0880	-0.05	0.6	0.3	0.0200	1.01
MCHC-g/dl	1	31.4	30.7	62.1	64.2	0.1490	-0.63	0.7	0.3	0.0220	1.35
Plt. x10³/μl	1	187	175	362	406.5	2.29	-0.85	12	7	0.47	0.67
Retic %	2	2.1	2.1	4.2	5	0.10	-0.31	0	0.26	0.02	-0.87

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	3		Poly: 35 - 65, Myelo: 10 - 30, Meta: 5 - 15, Blast/Lympho/Promyelo: 1 - 10, nRBC/Baso/Eos/Mono: 0 - 5					
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Anisocytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis					
Diagnosis	3	C.M.L	Chronic Myeloid Leukemia (CML)					

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants o. 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 x10³/μl	1	249	27 <mark>6</mark>	80.43	91.3	5.8	1.45	13.04	6.16		
RBC x10 ⁶ /μl	1	249	276	88.04	90.58	6.16	2.54	5.07	6.16		
Hb g/dl	1	249	276	88.77	90.58	5.07	4.35	5.8	4.71		
HCT%	1	249	276	90.22	<mark>8</mark> 9.13	3.99	3.62	5.07	6.52		
MCV-fl	1	249	276	86.59	93.12	9.06	0.72	3.62	5.43		
MCH-Pg	1	249	276	86.23	94.57	7.61	1.45	5.43	3.26		
MCHC-g/dl	1	249	276	87.68	89.49	6.52	5.43	5.07	4.35		
Plt. x10³/μl	1	249	276	86.59	88.04	6.16	5.8	6.52	5.43		
ReticCount%	2	249	253	95.65	81.82	2.77	0.79	1.58	17.79		
PS Assessment	3	249	257	Acceptable:94.4,Warning Signal:4.0,Unacceptable:1.6							

*Comments:

- 1). Among Lab (EQA): 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.

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