

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.: 3937 **Distribution No.:** 152-K **Month/Year:** March/2021

Instrument ID: SYSMEX XN-350 SN.11534 02/2016

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

 $\label{eq:compared} \begin{tabular}{ll} Tel: 9013085730 \ , \ E-Mail: accuracy 2000@gmail.com \\ \begin{tabular}{ll} \textbf{Date of issue \& status of the report: } 24-05-2021[Final]. \\ \end{tabular}$

CBC and Retic Assessment

				Amo	ng Lab (Aco	curacy Testin	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	6.02	5.85	11.87	15.4	0.3590	-0.48	0.17	0.13	0.0180	0.25
RBC x10 ⁶ /μl	1	4.12	4.06	8.18	8.28	0.0130	-0.47	0.06	0.05	0.0040	0.27
Hb g/dl	1	11.9	11.9	23.8	23.9	0.0420	-0.13	0	0.1	0.0110	-1.35
НСТ%	1	37.9	36.7	74.6	74.4	0.3300	0.03	1.2	0.4	0.0370	2.40
MCV-fl	1	92	90.4	182.4	179	0.5920	0.33	1.6	0.2	0.0310	3.78
MCH-Pg	1	29.3	28.9	58.2	57.8	0.1200	0.19	0.4	0.2	0.0260	0.90
MCHC-g/dl	1	32.4	31.4	63.8	63.7	0.2690	0.02	1	0.2	0.0280	2.70
Plt. x 10³/μl	1	214	205	419	360.5	3.51	1.00	9	9	0.85	0.00
Retic %	2	0.6	0.5	1.1	5	0.15	-1.32	0.1	0.3	0.10	-0.90

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	2	Nrbcs=1.00 , Poly=41.00 L=2.00, E=1.00, Mono/Promono=2.00 , B1=2.00 P.M.=4.00, Mye=32.00, Meta=12.00, Other=0.00	Poly: 30 - 65, Myelo: 10 - 35, Meta: 5 - 20, Promyelo/Blast/Lympho: 1 - 10, nRBC/Baso/Eos/Mono: 0 - 5					
RBC Morphology	3	Normocytic and Normochromic Type	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromia, Microcytosis; Mild: Poikilocytosis, Macrocytosis					
Diagnosis	3	CHRONIC MYELOID LEUKEMIA.	Chronic Myeloid Leukemia (CML)					

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S No	Total participants o. covered in the current dist. 152K	Total No.	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3			
	5.NU.		responded	Among labs	Within lab	Among labs	Within lab	Among labs	Within lab		
WBC x10³/μl	1	136	135	<mark>8</mark> 5.93	85.93	8.15	8.15	5.92	5.92		
RBC x10 ⁶ /μl	1	136	136	88.97	91.18	3.68	3.68	7.35	5.14		
Hb g/dl	1	136	136	89.71	89.71	5.88	1.47	4.41	8.82		
HCT%	1	136	1 <mark>35</mark>	93.33	91.11	5.19	2.96	1.48	5.93		
MCV-fl	1	136	135	94.07	87.41	4.44	3.7	1.49	8.89		
MCH-Pg	1	136	135	91.85	91.11	3.7	2.96	4.45	5.93		
MCHC-g/dl	1	136	135	94.07	86.67	4.44	5.19	1.49	8.14		
Plt. x10³/μl	1	136	134	90.3	87.31	5.97	5.22	3.73	7.47		
ReticCount%	2	136	136	83.09	75.74	2.94	0.74	13.97	23.52		
PS Assessment	3	136	123	Satisfactory :92, Borderline Sat. :4, Unsatisfactory :4							

*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 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.ishtmaiimseqap.com.

Report authorized by,

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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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.: 3937 **Distribution No.:** 153-K **Month/Year:** October/2021

Instrument ID: SYSMAX XN-350 (11534 02/2016)

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

Tel: 9013085730 , E-Mail : accuracy2000@gmail.com **Date of issue & status of the report:** 10-12-2021[Final].

CBC and Retic Assessment

				Amo	ng Lab (Aco	curacy Testii	ing) Within Lab (Precision			cision Testir	ıg)
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	4.46	4.37	8.83	8.7	0.0440	0.13	0.09	0.1	0.0100	-0.08
RBC x10 ⁶ /μl	1	5.25	5.17	10.42	10.4	0.0130	0.06	0.08	0.05	0.0040	0.51
Hb g/dl	1	16.3	16	32.3	32.5	0.0460	-0.19	0.3	0.1	0.0100	1.35
НСТ%	1	54.1	53.9	108	99.6	0.2350	1.30	0.2	0.5	0.0390	-0.58
MCV-fl	1	104.3	103	207.3	190.7	0.3630	1.73	1.3	0.35	0.0290	1.83
МСН-Рд	1	31.5	31	62.5	62.4	0.0880	0.05	0.5	0.25	0.0190	0.84
MCHC-g/dl	1	30.2	30.1	60.3	65.35	0.1640	-1.20	0.1	0.3	0.0210	-0.67
Plt. x 10³/μl	1	150	141	291	284	1.84	0.14	9	5	0.36	0.70
Retic %	2	3.5	3	6.5	7	0.14	-0.14	0.5	0.3	0.02	0.67

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	0	Nrbcs=0.00, Poly=4.00 L=94.00, E=0.00, Mono/Promono=1.00, B1=1.00 P.M.=0.00, Mye=0.00, Meta=0.00, Other=0.00	Lymp: 85-94, Poly: 4-12, blast: 1-8, nRBC/mono/Eosino/Myelo/Meta: 0-1					
RBC Morphology	o .	normocytic normochromic with few microcytes and spherocytes	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis					
Diagnosis	3	CLL	Chronic Lymphocytic Leukemia (CLL)					

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never eters	S.No.	Total participants No. covered in the current dist. 153K	Total No.	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3				
rest parameters			responded	Among labs	Within lab	Among labs	Within lab	Among labs	Within lab			
WBC x10³/μl	1	267	267	7 7.9	88.01	6.74	2.25	15.36	9.74			
RBC x10 ⁶ /μl	1	267	267	91.01	86.52	6.37	7.49	2.62	5.99			
Hb g/dl	1	267	267	88.39	61.42	7.87	32.21	3.74	6.37			
HCT%	1	267	2 <mark>66</mark>	95.86	87.97	2.26	5.26	1.88	6.77			
MCV-fl	1	267	266	94.36	95.49	4.89	2.26	0.75	2.25			
MCH-Pg	1	267	266	88.35	89.47	7.14	3.38	4.51	7.15			
MCHC-g/dl	1	267	266	95.49	89.85	3.38	4.14	1.13	6.01			
Plt. x10³/μl	1	267	266	95.11	90.98	3.38	4.89	1.51	4.13			
ReticCount%	2	267	267	95.13	84.27	2.62	1.5	2.25	14.23			
PS Assessment	3	267	232	Satisfactory:93.14%, Borderline Sat.:0.86%, Unsatisfactory:6%								

*Comments:

Among Lab (EQA): Results acceptable.
 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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