



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. : 4035

Distribution No.: 152-K

Month/Year: March/2021

Instrument ID: ERBA H560- SR k11042109048

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

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	10.12	9.93	20.05	15.4	0.3590	0.64	0.19	0.13	0.0180	0.37
RBC x10 ⁶ /µl	1	4.36	4.32	8.68	8.28	0.0130	1.86	0.04	0.05	0.0040	-0.27
Hb g/dl	1	12.1	12	24.1	23.9	0.0420	0.27	0.1	0.1	0.0110	0.00
HCT%	1	38.9	38.5	77.4	74.3	0.3300	0.53	0.4	0.4	0.0370	0.00
MCV-fl	1	89.2	89.1	178.3	178.7	0.5920	-0.04	0.1	0.2	0.0310	-0.27
MCH-Pg	1	27.7	27.8	55.5	57.8	0.1200	-1.11	-0.1	0.2	0.0260	-1.35
MCHC-g/dl	1	31	31.2	62.2	63.7	0.2690	-0.31	-0.2	0.2	0.0280	-1.35
Plt. x10 ³ /µl	1	222	231	453	360	3.51	1.60	-9	9	0.85	-2.02
Retic %	2	2.2	2	4.2	5	0.15	-0.27	0.2	0.3	0.10	-0.45

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=30 L=10, E=, Mono/Promono= , B1=04 P.M.=10, Mye=28, Meta=14, Other=baso 02
RBC Morphology	3	Red blood cells predominately normocytic hypochromic fair no of microcytes seen occasional late normoblasts seen. Total White blood cells markedly increased with increase in no of immature cells of myeloid series platelets are adequate in number occasio
Diagnosis	3	Chronic myeloid leukemia

Chronic Myeloid Leukemia (CML)

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	124	137	85.4	85.4	8.03	8.03	5.84	5.84
RBC x10 ⁶ /µl	1	124	137	87.59	91.24	5.11	3.65	6.57	4.38
Hb g/dl	1	124	137	89.78	89.78	5.84	1.46	3.65	8.03
HCT%	1	124	137	92.7	90.51	5.11	2.92	1.46	5.84
MCV-fl	1	124	137	93.43	86.86	4.38	3.65	1.46	8.76
MCH-Pg	1	124	137	91.24	90.51	3.65	2.92	4.38	5.84
MCHC-g/dl	1	124	137	93.43	86.13	4.38	5.11	1.46	8.03
Plt. x10 ³ /µl	1	124	137	89.05	86.13	5.84	5.11	3.65	7.3
ReticCount%	2	124	122	93.44	85.25	3.28	0.82	3.28	13.93
PS Assessment	3	124	128	Acceptable:92,Warning Signal:4,Unacceptable :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 > ±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,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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

EQAP CODE No. : 4035

Distribution No.: 153-K

Month/Year: October/2021

Instrument ID: ERBA - H-560 SR-NO- k11042109048

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: 10-12-2021[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	4.24	4.1	8.34	8.7	0.0440	-0.37	0.14	0.13	0.0100	0.08
RBC x10 ⁶ /µl	1	5.27	5.16	10.43	10.4	0.0130	0.09	0.11	0.05	0.0040	1.01
Hb g/dl	1	15.6	15.6	31.2	32.5	0.0460	-1.25	0	0.2	0.0100	-2.70
HCT%	1	51.7	50.6	102.3	99.6	0.2350	0.42	1.1	0.5	0.0390	1.08
MCV-fl	1	98.1	97.9	196	190.7	0.3630	0.55	0.2	0.4	0.0290	-0.34
MCH-Pg	1	30.2	29.7	59.9	62.4	0.0880	-1.20	0.5	0.3	0.0190	0.90
MCHC-g/dl	1	30.9	30.3	61.2	65.35	0.1640	-0.99	0.6	0.3	0.0210	1.01
Plt. x10 ³ /µl	1	138	138	276	284	1.84	-0.16	0	6	0.36	-1.16
Retic %	2	0.3	0.28	0.58	7	0.14	-1.77	0.02	0.3	0.02	-1.26

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=1 , Poly=7 L=87, E=1, Mono/Promono= , B1= P.M.=4, Mye=, Meta=, Other=	Lymph: 85-94, Poly: 4-12, blast: 1-8, nRBC/mono/Eosino/Myelo/Meta: 0-1		
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis		
Diagnosis	3	MOST PROBABLY CHRONIC LYMPHOCYTIC LEUKEMIA	Chronic Lymphocytic Leukemia (CLL)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 153--K	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	267	267	77.9	88.01	6.74	2.25	15.36	9.74
RBC x10⁶/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	266	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:**

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