



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. : 2398

Distribution No.: 158-F

Month/Year: December/2022

Instrument ID: ERBA H-360, 3 PART (K10012116054)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 23-01-2023[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	9.7	9.53	19.23	18.2	0.0730	0.49	0.17	0.12	0.0090	0.61
RBC x10 ⁶ /µl	1	4.81	4.77	9.58	9.11	0.0100	1.92	0.04	0.04	0.0030	0.00
Hb g/dl	1	12.5	12.4	24.9	25.8	0.0220	-1.73	0.1	0.1	0.0080	0.00
HCT%	1	45	44.9	89.9	84.35	0.2260	0.93	0.1	0.4	0.0260	-0.81
MCV-fl	1	94.3	93.4	187.7	185.4	0.4410	0.18	0.9	0.2	0.0210	2.36
MCH-Pg	1	26.1	26	52.1	56.4	0.0550	-3.22	0.1	0.2	0.0140	-0.45
MCHC-g/dl	1	27.8	27.7	55.5	60.7	0.1560	-1.11	0.1	0.2	0.0160	-0.45
Plt. x10 ³ /µl	1	206	191	397	373	1.71	0.52	15	5	0.32	1.93
Retic %	2	15	13	28	27	0.63	0.06	2	1	0.06	0.79

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=08 , Poly=48 L=05, E=03, Mono/Promono= , B1=01 P.M.=01, Mye=18, Meta=24, Other=
RBC Morphology	3	Poly: 49 - 67, Myelo: 10 - 19, Meta: 6- 14, Lympho: 2- 6, Eosino: 0-2, Promyelo: 1-5, nRBC/Blast/Baso/Mono: 0 - 5
Diagnosis	3	ANISOPOIKILOCYTOSIS ++, MICROCYTIC +, HYPOCHROMIC+, POLYCHROMATIC RBCS , NRBCS SEEN
		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
		S/O CHRONIC MYELOID LEUKEMIA
		Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--F	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	296	295	87.46	88.81	5.42	5.08	7.12	6.11
RBC x10⁶/µl	1	296	296	83.78	92.23	9.46	3.38	6.76	4.39
Hb g/dl	1	296	296	82.77	89.53	8.45	6.08	8.78	4.39
HCT%	1	296	294	95.92	94.22	3.06	2.04	1.02	3.74
MCV-fl	1	296	294	97.62	93.2	1.7	2.04	0.68	4.76
MCH-Pg	1	296	294	85.03	91.16	7.14	3.4	7.83	5.44
MCHC-g/dl	1	296	294	97.28	92.86	1.36	3.74	1.36	3.4
Plt. x10³/µl	1	296	294	94.22	91.84	4.76	4.42	1.02	3.74
ReticCount%	2	296	265	92.83	93.58	4.53	2.64	2.64	3.78
PS Assessment	3	296	265	Satisfactory :92.21%, Borderline Sat. :3.05%, Unsatisfactory :4.74%					

***Comments:**

- 1). Among Lab (EQA) : CBC result for MCH 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.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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