



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. : 3526

Distribution No.: 164-J

Month/Year: June/2024

Instrument ID: HEMATOLOGY

Model Name.: SC-60 PRO

Serial No.: SC60PRO2024040003

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
 Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com

Date of issue & status of the report: 28-08-2024[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	5.5	5.3	10.8	10.9	0.034	-0.13	0.2	0.1	0.008	0.84
RBC x10 ⁶ /µl	1	4.57	4.56	9.13	8.97	0.012	0.58	0.01	0.04	0.003	-0.67
Hb g/dl	1	13.1	13	26.1	26.2	0.027	-0.17	0.1	0.1	0.008	0.00
HCT%	1	40.2	39.8	80	80	0.188	0.00	0.4	0.4	0.027	0.00
MCV-fl	1	87.9	87.4	175.3	178.7	0.278	-0.46	0.5	0.3	0.023	0.54
MCH-Pg	1	28.6	28.6	57.2	58.3	0.072	-0.59	0	0.2	0.015	-0.90
MCHC-g/dl	1	32.7	32.5	65.2	65	0.148	0.05	0.2	0.2	0.018	0.00
Plt. x10 ³ /µl	1	118	117	235	259	1.326	-0.74	1	5	0.297	-0.90
Retic %	2	13	9	22	18.5	0.333	0.38	4	0.6	0.047	5.73

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=5 , Poly=33 L=03, E=02, Mono/Promono=01 , B1=04 P.M.=05, Mye=30, Meta=18, Other=NIL	Poly: 23-43, Myelo: 17-35, Meta: 12-22, Promyelo: 2-10, Lympho: 3-6, Blast: 2-5, Eosino: 1-3, Mono: 1-2, Baso: 0-5		
RBC Morphology	3	Normocytic normochromic reveal mild anisocytosis (RBC count low)	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Polychromatophils (+), Macrocytic, Tear drop cells		
Diagnosis	3	chronic myeloproliferative disorder most likely CML (Chronic phase)	Myeloproliferative Neoplasm (CML-CP)		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--J	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	312	311	81.03	85.53	4.82	5.14	14.15	9.33
RBC x10 ⁶ /μl	1	312	312	83.65	90.06	9.62	4.49	6.73	5.45
Hb g/dl	1	312	312	80.45	88.46	8.65	5.45	10.9	6.09
HCT%	1	312	311	89.71	89.71	8.04	5.79	2.25	4.5
MCV-fl	1	312	311	88.1	92.93	8.04	2.89	3.86	4.18
MCH-Pg	1	312	311	89.71	94.53	5.14	2.89	5.15	2.58
MCHC-g/dl	1	312	311	90.68	85.85	5.79	4.5	3.53	9.65
Plt. x10 ³ /μl	1	312	310	86.13	94.52	9.68	2.26	4.19	3.22
ReticCount%	2	312	266	93.23	79.7	4.89	15.04	1.88	5.26
PS Assessment	3	312	273	Satisfactory :94.53%, Borderline Sat. :1.93%, Unsatisfactory :3.54%					

***Comments:**

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : *RETIC* result is unacceptable, may be due to random/human error.

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 (S_s) 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. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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