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

PC-1002

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

EQAP CODE No. : 2081   **Distribution No.:** 156-E   **Month/Year:** May/2022

Instrument ID: HEM/102 (903PES15247)

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: 28-07-2022[Final].

CBC and Retic Assessment

Test Parameters	S.No.	Your Result 1	Your Result 2	Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
				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 x10³/µl	1	16.7	16.6	33.3	14.31	0.0900	8.97	0.1	0.12	0.0110	-0.12
RBC x10⁶/µl	1	3.97	3.95	7.92	7.73	0.0090	0.83	0.02	0.04	0.0030	-0.54
Hb g/dl	1	13.4	13.3	26.7	26.8	0.0300	-0.11	0.1	0.1	0.0080	0.00
HCT%	1	42.9	42.7	85.6	87	0.2310	-0.22	0.2	0.4	0.0260	-0.45
MCV-fl	1	108	108	216	224	0.4640	-0.65	0	0.3	0.0240	-0.67
MCH-Pg	1	33.8	33.5	67.3	69.2	0.1030	-0.72	0.3	0.3	0.0210	0.00
MCHC-g/dl	1	31.3	31	62.3	61.2	0.1770	0.24	0.3	0.2	0.0200	0.34
Plt. x10³/µl	1	278	266	544	567.5	3.17	-0.27	12	7	0.44	0.82
Retic %	2	12	11	23	20.5	0.36	0.27	1	0.7	0.05	0.51

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=09 L=08, E=1, Mono/Promono= , B1= P.M.=1, Mye=25, Meta=06, Other=NEUTROPHILS- 50%	Poly: 40 – 56, Myelo: 14 - 26, Meta: 7 – 16, Promyelo: 2-6, nRBC/ Lympho /Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	RBC- MILD ANISOCHROMIA, MILD ANISOCYTOSIS, MICROCYTES NOTED WBC- LEUCOCYTOSIS WITH SHIFT TO LEFT AND MYELOCYTE BULGE PLATELETE-ADEQUATE	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CHRONIC MYELOID LEUKEMIA (CML)	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--E	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	298	296	77.36	88.51	7.43	5.07	15.21	6.42
RBC x10⁶/µl	1	298	298	88.59	89.6	5.37	4.36	6.04	6.04
Hb g/dl	1	298	298	86.91	84.23	4.03	8.39	9.06	7.38
HCT%	1	298	296	91.22	89.86	6.42	6.08	2.36	4.06
MCV-fl	1	298	295	89.49	94.24	6.78	2.03	3.73	3.73
MCH-Pg	1	298	295	88.47	90.85	5.42	4.41	6.11	4.74
MCHC-g/dl	1	298	295	91.19	90.51	5.08	3.05	3.73	6.44
Plt. x10³/µl	1	298	296	89.19	88.85	8.78	5.74	2.03	5.41
ReticCount%	2	298	270	90	80.37	5.56	14.44	4.44	5.19
PS Assessment	3	298	279	Satisfactory :91.29%, Borderline Sat. :5.36%, Unsatisfactory :3.35%					

*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 ($\overline{x}$-$\overline{y}$) 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,

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