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. : 1198   **Distribution No.:** 156-D   **Month/Year:** May/2022

Instrument ID: MEK 7300 K, Celltac ES, 5 Part Hematology Analyzer, Nihon Kohden , Sr No 994

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: 22-07-2022[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	19.2	18.7	37.9	19.21	0.0960	7.10	0.5	0.15	0.0110	2.25
RBC x10^6/µl	1	5.24	5.16	10.4	11.28	0.0110	-2.76	0.08	0.04	0.0030	0.90
Hb g/dl	1	14.5	14.4	28.9	28.1	0.0290	1.08	0.1	0.1	0.0070	0.00
HCT%	1	53.2	52.5	105.7	94.6	0.2270	1.68	0.7	0.4	0.0240	0.81
MCV-fl	1	102	102	204	166.9	0.3470	3.71	0	0.2	0.0170	-0.67
MCH-Pg	1	27.9	27.7	55.6	49.5	0.0650	3.43	0.2	0.2	0.0120	0.00
MCHC-g/dl	1	27.4	27.3	54.7	59.1	0.1500	-1.08	0.1	0.2	0.0150	-0.34
Plt. x10^3/µl	1	241	209	450	614.5	4.34	-1.21	32	8	0.45	3.24
Retic %	2	17.3	17	34.3	16.65	0.27	2.38	0.3	0.5	0.02	-0.34

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=42 L=5, E=1, Mono/Promono=1 , B1=5 P.M.=1, Mye=25, Meta=19, Other=	Poly: 35 – 48, Myelo: 17 - 33, Meta: 10 – 17, Promyelo: 3-7, nRBC/ Lympho /Blast/Eos/Baso/Mono: 0 – 5
RBC Morphology	3	Anisocytosis +, Normocytic normochromic +, macrocytosis +, target cells few, occasional polychromatic RBCs noted	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--D	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	352	345	82.03	87.54	6.67	3.48	11.3	8.98
RBC x10^6/µl	1	352	352	88.92	88.35	5.97	3.69	5.11	7.96
Hb g/dl	1	352	352	84.09	88.92	5.4	5.4	10.51	5.68
HCT%	1	352	346	86.13	89.02	5.78	4.62	8.09	6.36
MCV-fl	1	352	346	83.82	93.64	4.91	3.76	11.27	2.6
MCH-Pg	1	352	346	86.71	92.77	3.76	3.47	9.53	3.76
MCHC-g/dl	1	352	346	87.28	90.17	8.38	3.18	4.34	6.65
Plt. x10^3/µl	1	352	346	88.44	91.33	4.91	4.91	6.65	3.76
ReticCount%	2	352	328	91.46	88.41	7.01	9.15	1.53	2.44
PS Assessment	3	352	332	Satisfactory :97.73%, Borderline Sat. :0.56%, Unsatisfactory :1.70%					

*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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