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. : 4042   **Distribution No.: 152-K**   **Month/Year:** March/2021

Instrument ID: Dymind DH 36, 3 Part Differential Automated Hematology Analyser, Equip S.N. - DM10011813072

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: 24-05-2021[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	5.18	5.05	10.23	15.4	0.3590	-0.71	0.13	0.13	0.0180	0.00
RBC x10⁶/µl	1	4.38	4.33	8.71	8.28	0.0130	2.00	0.05	0.05	0.0040	0.00
Hb g/dl	1	11.6	11.5	23.1	23.9	0.0420	-1.08	0.1	0.1	0.0110	0.00
HCT%	1	38	37.6	75.6	74.3	0.3300	0.22	0.4	0.4	0.0370	0.00
MCV-fl	1	86.8	86.7	173.5	178.7	0.5920	-0.51	0.1	0.2	0.0310	-0.27
MCH-Pg	1	26.6	26.4	53	57.8	0.1200	-2.31	0.2	0.2	0.0260	0.00
MCHC-g/dl	1	30.6	30.5	61.1	63.7	0.2690	-0.54	0.1	0.2	0.0280	-0.34
Plt. x10³/µl	1	198	195	393	360	3.51	0.57	3	9	0.85	-0.67
Retic %	2	5	4.5	9.5	5	0.15	1.53	0.5	0.3	0.10	0.90

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=13 L=02, E=00, Mono/Promono=00 , B1=62 P.M.=08, Mye=10, Meta=05, Other=00	Poly: 30 – 65, Myelo: 10 – 35, Meta: 5 – 20, Promyelo/Blast/Lympho: 1 – 10, nRBC/Baso/Eos/Mono: 0 – 5
RBC Morphology	3	Normocytic, Hypochromic	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromia, Microcytosis; Mild: Poikilocytosis, Macrocytosis
Diagnosis	3	Chronic Myeloblastic Leukemia (CML)	Chronic Myeloid Leukemia (CML)

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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 x10³/µl	1	124	136	86.03	86.03	8.09	8.09	5.88	5.88
RBC x10⁶/µl	1	124	136	88.24	91.91	5.15	3.68	6.62	4.41
Hb g/dl	1	124	136	90.44	253.68	5.88	8.09	3.68	1.47
HCT%	1	124	136	93.38	91.18	5.15	2.94	1.47	5.88
MCV-fl	1	124	136	94.12	87.5	4.41	3.68	1.47	8.82
MCH-Pg	1	124	136	91.91	91.18	3.68	2.94	4.41	5.88
MCHC-g/dl	1	124	136	94.12	86.76	4.41	5.15	1.47	8.09
Plt. x10³/µl	1	124	135	90.37	87.41	5.93	5.19	3.7	7.41
ReticCount%	2	124	122	93.44	85.25	3.28	0.82	3.28	13.93
PS Assessment	3	124	124	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,

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