



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



 $Duration\ of\ stability\ testing\ -\ minimum\ up to\ 8\ days\ at\ ambient\ temp.\ after\ dispatch\ of\ specimens$

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,

Tel: 9013085730 , E-Mail: accuracy2000@gmail.com

Date of issue & status of the report: 24-05-2021[Final].

CBC and Retic Assessment

				Amo	ng Lab (Ac	curacy Testi	ng)	Within Lab (Precision Testin					
Test Parameters	S.No.	Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values		Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values			
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 x10 ⁶ /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		
НСТ%	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		
МСН-Рд	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	Diagnosis 3 Chronic MyeloblasticLeukemia (CML)		Chronic Myeloid Leukemia (CML)					

EQAP Code Distribution No.: No.: 4042 152-K

Month/Year: March/2021 Instrument ID: Dymind DH 36, 3 Part Differential Automated Hematology Analyser, Equip S.N. -DM10011813072

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in	Total No. responded	% of Labs with Z Score 0-2			os with Z e 2-3	% of Labs with Z Score >3				
	5	the current dist.		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab			
WBC $x10^3/\mu l$	1	124	136	86.03	86.03	8.09	8.09	5.88	5.88			
RBC x10 ⁶ /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. $x10^3/\mu l$	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 $> \pm 3$: 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 $> \pm 3$ 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,

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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Reviewed Satisfactor





PROFICIENCY TESTING REPORT

ISHTM-AHMS 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.: 153-K

Month/Year: October/2021

Instrument ID: DYMIND DH 36, S.N. DM10011813072

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,

Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 10-12-2021[Final].

CBC and Retic Assessment

				Amo	ng Lab (Ac	curacy Testi	ng)	Diff. of 2 values Of Assigned Values Solution So			
Test Parameters	S.No.	Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values		Results Diff. of	Result Diff. of 2 values (Assigned	of Assigned	
WBC x10³/μl	1	3.97	3.85	7.82	8.7	0.0440	-0.91	0.12	0.13	0.0100	-0.08
RBC x106/μl	1	5.61	5.46	11.07	10.4	0.0130	2.08	0.15	0.05	0.0040	1.69
Hb g/dl	1	15.3	15.3	30.6	32.5	0.0460	-1.83	0	0.2	0.0100	-2.70
нст%	1	53.9	52.5	106.4	99.6	0.2350	1.05	1.4	0.5	0.0390	1.62
MCV-fl	1	96.1	96	192.1	190.7	0.3630	0.15	0.1	0.4	0.0290	-0.51
МСН-Рд	1	28	27.3	55.3	62.4	0.0880	-1.42	0.7	0.3	0.0190	1.80
MCHC-g/dl	1	29.2	28.4	57.6	65.35	0.1640	-1.84	8.0	0.3	0.0210	1.69
Plt. x10³/μl	1	142	138	280	284	1.84	-0.08	4	6	0.36	-0.39
Retic %	2	6	5.5	11.5	7	0.14	1.24	0.5	0.3	0.02	0.90

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%		Nrbcs=0 , Poly=4 L=96, E=0, Mono/Promono=0 , B1=0 P.M.=0, Mye=0, Meta=0, Other=0	Lymp: 85-94, Poly: 4-12, blast: 1-8, nRBC/mono/Eosino/Myelo/Meta: 0-1				
RBC Morphology	3	Predominantly Microcytic, Hypochromic, Few normocytic, normochromic and moderate Anisocytosis	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3	Chronic Lymphoproliferative Disorder - probably Chronic Lymphocytic Leukemia	Chronic Lymphocytic Leukemia (CLL)				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	and the	Total No.	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
		current dist. 153K	responded	Among labs	Within lab	Among labs	Within	Among	Within
WBC x10 ³ /µl	1	267	267	77.9	Charles and the same of the sa	1003	lab	labs	lab
RBC x10 ⁶ /µl	1	267			88.01	6.74	2.25	15.36	9.74
Hb g/dl	1		267	91.01	86.52	6.37	7.49	2.62	5 99
	1	267	267	88.39	61.42	7.87	32.21	-	
НСТ%	1	267	266	95.86	87.97			3.74	6.37
MCV-fl	1	267	266	-		2.26	5.26	1 88	6.77
MCH-Pg	1	267		94.36	95.49	4.89	2.26	0.75	2.25
			266	88.35	89.47	7.14	3.38	4.51	7.15
MCHC-g/dl	1	267	266	95.49	89.85	3.38	4.14		
Plt. $x10^3/\mu l$	1	267	266	95.11				1.13	6.01
ReticCount%	2	267	267		90.98	3.38	4.89	1.51	4.13
PS Assessment	3	267	232	95.13 Satisfactory	84.27	2.62	1.5	2 25	14.23

*Comments:

- 1). Among Lab (EQA) : Results acceptable.
- 2). Within Lab (IQA) : Precision acceptable.

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IQA (Internal Quality Assurance): Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

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 $IQR = Quartile \ 3$ - Quartile 1 of participant data, Normalised $IQR = 0.7413 \times IQR$

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Reviewed Satisfactory town Satisfactory