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. : 3569 **Distribution No.:** 156-J **Month/Year:** June/2022

Instrument ID: Beckman Coulter DxH500 AZ080377

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: 29-08-2022[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	9.11	8.64	17.75	10.6	0.0820	**3.71**	0.47	0.12	0.0110	**2.62**
RBC x10^6/µl	1	4.31	4.24	8.55	8.84	0.0120	**-1.09**	0.07	0.05	0.0030	**0.39**
Hb g/dl	1	11.09	10.9	21.99	25.4	0.0320	**-4.60**	0.19	0.1	0.0100	**0.61**
HCT%	1	40.3	39	79.3	80.55	0.2100	**-0.25**	1.3	0.4	0.0340	**1.73**
MCV-fl	1	93.6	92	185.6	181.8	0.3220	**0.49**	1.6	0.3	0.0260	**2.92**
MCH-Pg	1	25.7	25.7	51.4	57.4	0.0800	**-3.11**	0	0.3	0.0200	**-1.01**
MCHC-g/dl	1	27.9	27.5	55.4	62.75	0.1690	**-1.84**	0.4	0.4	0.0240	**0.00**
Plt. x10^3/µl	1	228	226	454	402.5	2.29	**0.96**	2	6	0.43	**-0.60**
Retic %	2	2.5	2	4.5	5.6	0.16	**-0.27**	0.5	0.3	0.02	**0.90**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=6 L=6, E=2, Mono/Promono=2 , B1=52 P.M.=27, Mye=3, Meta=2, Other=Myeloblast with Auer rod	Blast: 24-67, Poly: 5-18, Lympho: 6-15, mono:2-15 , Myelo:0-7 , Meta: 0-7, promyelo: 0-6, Eosino:0-1
RBC Morphology	3	Normocytic Normochromic with few microcytic hypochromic cells with few macrocytes with mild anisopoikiocytosis	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Acute Myeloid Leukemia AML M3	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--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	249	246	85.77	89.84	5.69	3.66	8.54	6.5
RBC $x10^6$/µl	1	249	249	87.95	86.35	4.82	6.43	7.23	7.22
Hb g/dl	1	249	249	86.35	83.53	3.61	5.62	10.04	10.85
HCT%	1	249	246	89.84	89.84	5.28	4.47	4.88	5.69
MCV-fl	1	249	246	89.43	93.5	5.28	2.03	5.29	4.47
MCH-Pg	1	249	246	87.8	88.21	5.69	3.66	6.51	8.13
MCHC-g/dl	1	249	246	91.06	89.02	4.88	5.28	4.06	5.7
Plt. $x10^3$/µl	1	249	246	92.68	91.06	4.88	4.88	2.44	4.06
ReticCount%	2	249	222	92.79	81.53	4.5	11.26	2.71	7.21
PS Assessment	3	249	231	Satisfactory :85.95%, Borderline Sat. :0.803%, Unsatisfactory :13.25%					

*Comments:

1). Among Lab (EQA) : CBC result for WBC, HB & MCH unacceptable, please check calibration/human error.Remaining 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.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Seema Tyagi (Prof.)
PT Co-ordinator: ISHTM-AIIMS-EQAP
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