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

NABL Certificate No. PC - 1002

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

EQAP CODE No. : 1433 **Distribution No.:** 150-C **Month/Year:** February/2020

Instrument ID: LAB LIFE H3D RM12102483

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: 29-07-2020[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	2.4	2.3	4.7	4.4	0.0160	**0.76**	0.1	0.09	0.0040	**0.15**
RBC x10^6/µl	1	5.09	4.63	9.72	9.32	0.0070	**2.10**	0.46	0.04	0.0020	**9.44**
Hb g/dl	1	13.1	13	26.1	27.3	0.0200	**-2.02**	0.1	0.1	0.0080	**0.00**
HCT%	1	47.9	42.1	90	81.6	0.1500	**1.95**	5.8	0.4	0.0230	**14.57**
MCV-fl	1	94.2	91	185.2	175.5	0.2450	**1.34**	3.2	0.2	0.0170	**10.12**
MCH-Pg	1	28.1	25.7	53.8	58.6	0.0500	**-4.05**	2.4	0.3	0.0150	**9.44**
MCHC-g/dl	1	30.9	27.3	58.2	66.4	0.1180	**-2.28**	3.6	0.3	0.0170	**11.13**
Plt. x10^3/µl	1	240	225	465	439	1.41	**0.71**	15	6	0.38	**1.52**
Retic %	2	2.6	2.4	5	7	0.14	**-0.49**	0.2	0.3	0.02	**-0.45**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Poly: 55-65, L: 2-10, nRBC/Eo/Mono/Pro: 0-5, Myelo: 10-20, Meta: 10-20, Baso: 0-2
RBC Morphology	3		Predominantly: Normocytic Normochrmoic. Moderate: Anisocytosis. Mild: Microcytic.
Diagnosis	3		Chronic Myeloid Leukemia (Chronic Phase) : CML-CP

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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 x10^3/µl	1	450	330	81.21	94.55	6.97	0.61	11.52	4.24
RBC x10^6/µl	1	450	330	85.76	90.91	6.97	5.15	6.97	3.33
Hb g/dl	1	450	330	87.88	82.12	7.27	10	4.55	7.58
HCT%	1	450	330	95.45	89.09	3.03	5.15	0.91	5.15
MCV-fl	1	450	330	96.36	83.94	2.73	12.42	0.3	3.03
MCH-Pg	1	450	330	82.42	90.61	7.88	3.94	9.09	4.85
MCHC-g/dl	1	450	330	95.15	91.52	3.33	4.55	0.91	3.33
Plt. x10^3/µl	1	450	330	90.3	91.21	6.36	3.94	2.73	4.24
ReticCount%	2	450	282	94.33	81.91	2.48	10.99	3.19	8.87
PS Assessment	3	450	319	Acceptable:96.3%,Warning Signal:3.1%,Unacceptable :0.6%					

***Comments:**

1). Among Lab (EQA) : CBC result for MCH unacceptable, may be due to random/human error, PS not reported, remaining results acceptable.

2). Within Lab (IQA) : Difference for most of the CBC results unacceptable, check precision.

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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