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. MC - 1002

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

EQAP CODE No. : 1702 **Distribution No.:** 151-D **Month/Year:** August/2020

Instrument ID: MEK 6510K

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: 27-11-2020[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	5.3	5.1	10.4	9.8	0.0460	**0.43**	0.2	0.1	0.0060	**0.96**
RBC x10^6/µl	1	3.17	3.07	6.24	6.4	0.0060	**-0.90**	0.1	0.03	0.0010	**1.89**
Hb g/dl	1	11.4	11.1	22.5	23.4	0.0210	**-1.52**	0.3	0.1	0.0070	2.57
HCT%	1	34.9	34.1	69	72.05	0.1860	**-0.50**	0.8	0.3	0.0200	**1.35**
MCV-fl	1	111	110	221	223.5	0.4950	**-0.14**	1	0.3	0.0230	**1.57**
MCH-Pg	1	36.2	36	72.2	73.2	0.0760	**-0.48**	0.2	0.3	0.0200	**-0.34**
MCHC-g/dl	1	32.7	32.6	65.3	65.3	0.1640	**0.00**	0.1	0.3	0.0200	**-0.67**
Plt. x10^3/µl	1	241	228	469	512	1.38	**-1.12**	13	6	0.32	**1.22**
Retic %	2	2.7	2.6	5.3	7.2	0.13	**-0.51**	0.1	0.3	0.02	**-0.72**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0-1/hpf , Poly=22% L=04%, E=00%, Mono/Promono=0% , B1=11% P.M.=17%, Mye=28%, Meta=18%, Other=	Poly: 25-50, Lymph; 2-7, nRBC/Mono/Eo/Blast/Pro: 0-5, Myelo: 20-35, Meta: 15-25, Baso: 0-3
RBC Morphology	3	Mild hypochromasia with Mainly Macrocytic and few Microcytic Rbc with mod. Anisocytosis and mild poikilocytosis with few tear drop shaped rbc and few fragmented rbc seen.	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic
Diagnosis	3	Chronic Myeloid Leukaemia	Chronic Myeloid Leukemia (Chronic Phase) : CML-CP

EQAP Code No.: 1702 Distribution No.: 151-D Month/Year: August/2020 Instrument ID: MEK 6510K

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 $x10^3/\mu l$	1	450	363	88.43	86.23	4.68	5.79	6.61	7.71
RBC $x10^6/\mu l$	1	450	363	88.43	88.98	4.96	6.06	6.34	4.68
Hb g/dl	1	450	363	85.12	90.91	6.34	4.41	8.54	4.68
HCT%	1	450	363	94.77	92.29	3.03	2.75	1.93	4.68
MCV-fl	1	450	363	97.8	92.29	0.55	3.03	1.1	4.13
MCH-Pg	1	450	363	88.98	90.91	5.51	5.23	4.96	3.03
MCHC-g/dl	1	450	363	96.97	87.05	1.38	6.06	1.38	6.06
Plt. $x10^3/\mu l$	1	450	363	90.08	90.63	5.23	5.51	4.41	3.58
ReticCount%	2	450	322	93.17	83.85	4.35	1.55	2.8	16.15
PS Assessment	3	450	352	Acceptable:75.4%,Warning Signal:24.6%,Unacceptable :0%					

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,

Dr. Seema Tyagi (Prof.)
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