



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. : 2462

Distribution No.: 147-F

Month/Year: June/2019

Instrument ID: MICRO ES 60 (703ESOH11315)

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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	4.5	4.6	9.1	10.2	0.0570	-1.06	-0.1	0.1	0.0100	-1.80
RBC x10 ⁶ /µl	1	3.58	3.63	7.21	7.31	0.0070	-0.50	-0.05	0.03	0.0040	-2.16
Hb g/dl	1	11.4	11.4	22.8	23.2	0.0250	-0.67	0	0.1	0.0070	-1.35
HCT%	1	33.7	34.1	67.8	70.95	0.2030	-0.50	-0.4	0.3	0.0240	-1.89
MCV-fl	1	94	94	188	194.6	0.4210	-0.40	0	0.2	0.0230	-0.34
MCH-Pg	1	31.8	31.4	63.2	63.5	0.0710	-0.17	0.4	0.2	0.0200	0.90
MCHC-g/dl	1	33.7	33.4	67.1	65.05	0.1670	0.34	0.3	0.3	0.0190	0.00
Plt. x10 ³ /µl	1	164	177	341	333	2.48	0.22	-13	4	0.37	-4.37
Retic %	2	10	11	21	18	0.29	0.34	-1	0.5	0.04	-2.25

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=2-3 , Poly=75 L=10, E=0, Mono/Promono=4 , B1=1 P.M.=0, Mye=3, Meta=4, Other=3	Poly: 65-75, Lymph: 2-8, nRBC/Eo/Mono/Pro/Blast: 0-5, Myelo: 2-6, Meta: 4-10
RBC Morphology	3	1.MILD DEGREE OF ANISOPOIKILOCYTOSIS .2.PREDOMINANTLY NORMOCYTIC NORMOCHROMIC RBCS WITH FAIR NUMBER OF MICROCYTIC HYPOCHROMIC RBCS. 3. PENCIL CELL 1+ OVALOCYTES 1+ TEAR DROP CELLS 1+ OCCASIONAL TARGET CELLS	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Hypochromic

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		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
Diagnosis	3	MILD DEGREE OF MICROCYTIC HYPOCHROMIC ANEMIA WITH NEUTROPHILIC LEUKOCYTES AND SHIFT TO LEFT . SUGGESTIVE OF LEUKEMOID REACTION . ADVICE - LAP SCORE				Chronic Myeloid Leukemia-Chronic Phase [CML-CP]				

EQAP Code No.: 2462 Distribution No.: 147-F Month/Year: June/2019 Instrument ID: MICRO ES 60 (703ESOH11315)

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	349	87.11	83.95	7.16	9.74	7.74	6.88
RBC x10 ⁶ /µl	1	450	349	88.25	79.37	4.87	12.61	7.74	8.6
Hb g/dl	1	450	349	84.53	85.96	7.74	9.74	8.31	4.58
HCT%	1	450	349	93.41	79.66	5.16	9.46	2.01	11.17
MCV-fl	1	450	349	92.84	90.83	5.44	4.01	2.29	6.3
MCH-Pg	1	450	349	85.96	87.68	6.88	6.59	8.02	5.73
MCHC-g/dl	1	450	349	96.56	83.67	1.43	7.16	2.29	9.46
Plt. x10 ³ /µl	1	450	349	84.53	83.95	7.45	7.74	9.74	9.74
ReticCount%	2	450	314	99.36	85.35	2.23	12.1	0.96	5.1
PS Assessment	3	450	327	Acceptable:90.7 %,Warning Signal:4.8 %,Unacceptable :4.5 %					

*Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Difference in the CBC measurement values for **PLT** unacceptable, may be due to random/human error.

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. R. Saxena

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PT Co-ordinator: ISHTM-AIIMS-EQAP

-----End Of Report-----

