

EQA round: T05/23 - Blood count - new parameters (study)

Deadline: 19.5.2023

Setup: groups - manufacturer of instrument; Slovakia; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D _{max} = acceptable difference
SD = standard deviation	CVP = consensus of all participants	LL = lower limit
CV = coefficient of variation	CVPG = consensus of the participants' groups	UL = upper limit
N _{tot} = total number of the results	U _{AV} = expanded uncertainty of the assigned value (k = 2)	N _{eva} = number of the results assessed
N _{out} = number of the results removed before calculation		N _{suc} = number of successful results
		S _{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N _{tot}	N _{out}	Comparability					N _{eva}	N _{suc}	S _{rel} [%]	
							AV	U _{AV}	D _{max}	LL	UL				
(120) Reticulocyte count	[·10 ⁹ /L]				12							12	12	100	
Sample A		103	27	26	12		CVP	100	6,1	45%	55	145	12	12	100
(63) Sysmex		92,8	12	13	6	0							6		
(177) Mindray		124	13	10	5	0							5		
Other					1	0							1		
							1x 12								
Sample B		82,3	19	24	12		CVP	90,3	7,2	45%	49,6	131	12	12	100
(63) Sysmex		96,3	13	13	6	0							6		
(177) Mindray		72,3	1,3	1,8	5	0							5		
Other					1	0							1		
							1x 12								
(126) Immature reticulocyte fraction	[%]				9								9	9	100
Sample A		11,6	1,9	17	9		CVP	12,4	0,93	45%	6,82	18	9	9	100
(63) Sysmex		9,32	2,5	27	5	0							5		
Other					4	0							4		
							4x 177								
Sample B		6,95	1,7	25	9		CVP	7,81	0,87	45%	4,29	11,4	9	9	100
(63) Sysmex		5,85	0,37	6,3	5	0							5		
Other					4	0							4		
							4x 177								
(127) Mean reticulocyte volume	[fL]				1								1	1	100
Sample A													1	1	100
Other					1	0							1		
							1x 12								
Sample B													1	1	100
Other					1	0							1		
							1x 12								
(128) Mean amount of hemoglobin in reticulocytes	[pg]				10								10	7	70
Sample A		33,9	3,6	11	10		CVP	34,6	0,98	10%	31,1	38,1	10	7	70
(63) Sysmex		36,6	1	2,8	5	0							5		
(177) Mindray		30,7	1,1	3,6	5	0							5		
Sample B		31,8	3	9,4	10		CVP	32,4	0,85	10%	29,1	35,7	10	8	80
(63) Sysmex		34	1,4	4,1	5	0							5		
(177) Mindray		29,4	1,6	5,5	5	0							5		
(129) Immature platelet fraction	[%]				7								7	6	86
Sample A		5,2	4	77	7								7	6	86
(177) Mindray		3	0,74	25	6	0	CVPG	3,25	0,71	40%	1,95	4,55	6		
Other					1	0							1		
							1x 63								
Sample B		4,65	5,3	110	7								7	6	86
(177) Mindray		1,3	0,3	23	6	0	CVPG	1,47	0,32	40%	0,882	2,06	6		
Other					1	0							1		
							1x 63								