

EQA round: KO3/24 - Blood Count

Deadline: 17.5.2024

Setup: groups - S (measuring system); 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				
(150) WBC	[·10 ⁹ /L]				206							206	204	99	
Sample A		4,33	0,18	4,3	206		CVP	4,33	0,031	15%	3,68	4,98	206	205	100
(737) Siemens Advia 120, 2120, 2120i		4,1	0,2	4,9	17	0							17		
(741) Nihon Kohden Celltac Alfa		4,17	0,24	5,9	5	0							5		
(755) Sysmex KX, XP, XQ series		4,25	0,074	1,7	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		4,2	0,15	3,5	7	0							7		
(768) MINDRAY BC 5xxx series		4,22	0,26	6,2	5	0							5		
(771) MINDRAY BC 6xxx series		4,34	0,15	3,5	28	0							28		
(772) Sysmex XN series		4,41	0,14	3,2	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,2	0,15	3,5	7	0							7		
(999) another system		4,4	0,15	3,4	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		7,95	0,3	3,8	206		CVP	7,95	0,051	15%	6,75	9,15	206	204	99
(737) Siemens Advia 120, 2120, 2120i		7,38	0,44	5,9	17	0							17		
(741) Nihon Kohden Celltac Alfa		7,43	0,33	4,5	5	0							5		
(755) Sysmex KX, XP, XQ series		7,9	0,15	1,9	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		7,7	0,3	3,9	7	0							7		
(768) MINDRAY BC 5xxx series		7,52	0,28	3,7	5	0							5		
(771) MINDRAY BC 6xxx series		7,96	0,21	2,7	28	0							28		
(772) Sysmex XN series		8,08	0,19	2,3	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		7,65	0,52	6,8	7	0							7		
(999) another system		8,2	0,3	3,6	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(151) RBC	[·10 ¹² /L]				206								206	204	99
Sample A		3,46	0,062	1,8	206		CVP	3,46	0,011	7%	3,21	3,71	206	206	100
(737) Siemens Advia 120, 2120, 2120i		3,52	0,076	2,2	17	0							17		
(741) Nihon Kohden Celltac Alfa		3,51	0,03	0,85	5	0							5		
(755) Sysmex KX, XP, XQ series		3,48	0,03	0,85	8	0							8		
(766) MINDRAY BC 2xxx, 3xxx series		3,52	0,045	1,3	7	0							7		
(768) MINDRAY BC 5xxx series		3,41	0,13	3,9	5	0							5		
(771) MINDRAY BC 6xxx series		3,49	0,081	2,3	28	0							28		
(772) Sysmex XN series		3,45	0,049	1,4	106	0							106		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		3,45	0,03	0,86	7	0							7		
(999) another system		3,53	0,089	2,5	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		4,55	0,077	1,7	206		CVP	4,55	0,013	7%	4,23	4,87	206	204	99
(737) Siemens Advia 120, 2120, 2120i		4,57	0,09	2	17	0							17		
(741) Nihon Kohden Celltac Alfa		4,58	0,037	0,81	5	0							5		
(755) Sysmex KX, XP, XQ series		4,54	0,13	2,9	8	0							8		
(766) MINDRAY BC 2xxx, 3xxx series		4,56	0,03	0,65	7	0							7		
(768) MINDRAY BC 5xxx series		4,44	0,22	4,8	5	0							5		
(771) MINDRAY BC 6xxx series		4,57	0,14	3,2	28	0							28		
(772) Sysmex XN series		4,55	0,063	1,4	106	0							106		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		4,54	0,022	0,49	7	0							7		
(999) another system		4,57	0,052	1,1	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(152) Haemoglobin	[g/L]				207								207	206	100
Sample A		103	1,8	1,8	207		CVP	103	0,31	6%	96,8	110	207	206	100
(737) Siemens Advia 120, 2120, 2120i		106	1,7	1,6	17	0							17		
(741) Nihon Kohden Celltac Alfa		104	2,1	2	5	0							5		
(755) Sysmex KX, XP, XQ series		103	2,2	2,2	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		104	2,2	2,1	7	0							7		
(768) MINDRAY BC 5xxx series		105	4,4	4,2	5	0							5		
(771) MINDRAY BC 6xxx series		103	1,6	1,6	28	0							28		
(772) Sysmex XN series		102	1,4	1,4	107	0							107		

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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				
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		102	1,5	1,5	7	0							7		
(999) another system		102	1,1	1,1	6	0							6		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		111	1,7	1,6	207		CVP	111	0,3	6%	104	118	207	206	100
(737) Siemens Advia 120, 2120, 2120i		113	2,8	2,5	17	0							17		
(741) Nihon Kohden Celltac Alfa		112	1,5	1,3	5	0							5		
(755) Sysmex KX, XP, XQ series		110	0,74	0,68	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		112	3	2,6	7	0							7		
(768) MINDRAY BC 5xxx series		112	3	2,6	5	0							5		
(771) MINDRAY BC 6xxx series		111	1,8	1,6	28	0							28		
(772) Sysmex XN series		110	1,2	1,1	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		109	1,5	1,4	7	0							7		
(999) another system		110	1,5	1,4	6	0							6		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(153) HCT	[-]				206								206	200	97
Sample A		0,343	0,011	3,2	206		CVP	0,343	0,002	10%	0,308	0,378	206	200	97
(737) Siemens Advia 120, 2120, 2120i		0,347	0,008	2,3	17	0							17		
(741) Nihon Kohden Celltac Alfa		0,31	0,008	2,6	5	0							5		
(755) Sysmex KX, XP, XQ series		0,34	0,005	1,5	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		0,342	0,007	2	7	0							7		
(768) MINDRAY BC 5xxx series		0,319	0,002	0,47	5	0							5		
(771) MINDRAY BC 6xxx series		0,334	0,007	2	28	0							28		
(772) Sysmex XN series		0,349	0,007	2,1	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,329	0,005	1,6	7	0							7		
(999) another system		0,331	0,013	4	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		0,372	0,013	3,5	206		CVP	0,372	0,002	10%	0,334	0,41	206	206	100
(737) Siemens Advia 120, 2120, 2120i		0,38	0,011	2,9	17	0							17		
(741) Nihon Kohden Celltac Alfa		0,345	0,01	2,8	5	0							5		
(755) Sysmex KX, XP, XQ series		0,374	0,01	2,6	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		0,368	0,012	3,2	7	0							7		
(768) MINDRAY BC 5xxx series		0,345	0,008	2,4	5	0							5		
(771) MINDRAY BC 6xxx series		0,361	0,01	2,7	28	0							28		
(772) Sysmex XN series		0,379	0,008	2	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,358	0,003	0,84	7	0							7		
(999) another system		0,355	0,007	2,1	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(154) MCV	[fL]				206								206	201	98
Sample A		98,9	3,5	3,5	206		CVP	98,9	0,6	10%	89	109	206	201	98
(737) Siemens Advia 120, 2120, 2120i		98,7	1,5	1,5	17	0							17		
(741) Nihon Kohden Celltac Alfa		88,5	2,7	3	5	0							5		
(755) Sysmex KX, XP, XQ series		98	1,7	1,7	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		96,6	3,8	3,9	7	0							7		
(768) MINDRAY BC 5xxx series		94,8	3,5	3,7	5	1							5		
(771) MINDRAY BC 6xxx series		95,7	2	2,1	28	0							28		
(772) Sysmex XN series		101	1,3	1,3	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		95,1	1	1,1	7	0							7		
(999) another system		94	0,74	0,79	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		81,8	2,6	3,2	206		CVP	81,8	0,44	10%	73,6	90	206	204	99
(737) Siemens Advia 120, 2120, 2120i		83,3	1,9	2,3	17	0							17		
(741) Nihon Kohden Celltac Alfa		74,9	2,1	2,8	5	0							5		
(755) Sysmex KX, XP, XQ series		81,6	0,89	1,1	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		80,4	2,3	2,9	7	0							7		
(768) MINDRAY BC 5xxx series		78,5	2,4	3,1	5	0							5		
(771) MINDRAY BC 6xxx series		79,1	1,4	1,7	28	0							28		
(772) Sysmex XN series		83,4	0,94	1,1	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		79,2	0,52	0,66	7	0							7		
(999) another system		78,4	0,15	0,19	5	0							5		

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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				
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(156) RDW	[%]				189								182	176	97
Sample A		15,3	0,43	2,8	189								182	177	97
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,9	0,22	1,3	7	0	CVPG	16,6	0,42	10%	14,9	18,3	7		
(63) Sysmex; (772) Sysmex XN series		15,2	0,21	1,4	103	0	CVPG	15,2	0,052	10%	13,6	16,8	103		
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		13,7	0,82	6	5	0	CVPG	13,8	1,4	10%	12,4	15,2	5		
(177) Mindray; (768) MINDRAY BC 5xxx series		15,1	0,67	4,4	6	1	CVPG	15,7	0,22	10%	14,1	17,3	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		15,6	0,26	1,7	26	1	CVPG	15,7	0,22	10%	14,1	17,3	26		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		15,3	0,6	3,9	14	0	CVPG	15,3	0,39	10%	13,7	16,9	14		
Other					28	0							21		
							1x 1/702, 2x 1/763, 2x 1/765, 3x 12/718, 3x 46/999, 4x 63/749, 3x 63/755, 1x 149/737, 1x 157/743, 4x 177/766, 1x 177/999, 2x 204/716, 1x 205/706								
Sample B		15,4	0,37	2,4	189								182	177	97
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		16,5	0,22	1,4	7	0	CVPG	16,6	0,29	10%	14,9	18,3	7		
(63) Sysmex; (772) Sysmex XN series		15,4	0,17	1,1	103	0	CVPG	15,4	0,044	10%	13,8	17	103		
(157) Nihon Kohden; (741) Nihon Kohden Celltac Alfa		13,5	1,3	9,4	5	0	CVPG	13,6	2,1	10%	12,2	15	5		
(177) Mindray; (768) MINDRAY BC 5xxx series		14,9	0,52	3,5	6	1	CVPG	15,7	0,11	10%	14,1	17,3	6		
(177) Mindray; (771) MINDRAY BC 6xxx series		15,7	0,17	1,1	26	1	CVPG	15,7	0,11	10%	14,1	17,3	26		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		15,1	0,47	3,1	14	0	CVPG	15,1	0,31	10%	13,5	16,7	14		
Other					28	0							21		
							1x 1/702, 2x 1/763, 2x 1/765, 3x 12/718, 3x 46/999, 4x 63/749, 3x 63/755, 1x 149/737, 1x 157/743, 4x 177/766, 1x 177/999, 2x 204/716, 1x 205/706								
(155) Platelets	[·10⁹/L]				206								206	197	96
Sample A		200	9,8	4,9	206		CVP	200	1,7	18%	164	236	206	203	99
(737) Siemens Advia 120, 2120, 2120i		185	14	7,6	17	0							17		
(741) Nihon Kohden Celltac Alfa		197	13	6,8	5	0							5		
(755) Sysmex KX, XP, XQ series		194	7,4	3,8	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		200	13	6,7	7	0							7		
(768) MINDRAY BC 5xxx series		203	13	6,2	5	0							5		
(771) MINDRAY BC 6xxx series		204	7,7	3,8	28	0							28		
(772) Sysmex XN series		202	7,4	3,7	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		191	3	1,6	7	0							7		
(999) another system		217	8,2	3,8	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
Sample B		224	13	5,9	206		CVP	224	2,3	18%	183	265	206	197	96
(737) Siemens Advia 120, 2120, 2120i		190	16	8,7	17	0							17		
(741) Nihon Kohden Celltac Alfa		218	10	4,8	5	0							5		
(755) Sysmex KX, XP, XQ series		210	10	4,9	7	0							7		
(766) MINDRAY BC 2xxx, 3xxx series		223	11	5	7	0							7		
(768) MINDRAY BC 5xxx series		216	15	6,9	5	0							5		
(771) MINDRAY BC 6xxx series		227	9,2	4	28	0							28		
(772) Sysmex XN series		230	7	3	107	0							107		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		210	7,4	3,5	7	0							7		
(999) another system		226	24	10	5	0							5		
Other					18	0							18		
							1x 702, 1x 706, 2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 3x 765								
(157) MPV	[fL]				187								181	177	98
Sample A		11,4	0,54	4,8	187								181	179	99
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,7	0,3	3,1	7	0	CVPG	9,65	0,33	18%	7,91	11,4	7		
(63) Sysmex; (772) Sysmex XN series		11,5	0,27	2,4	101	0	CVPG	11,5	0,066	18%	9,43	13,6	101		
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		11,1	0,52	4,7	5	0	CVPG	11,5	0,24	18%	9,43	13,6	5		
(177) Mindray; (768) MINDRAY BC 5xxx series		10,8	0,74	6,9	5	0	CVPG	11,5	0,24	18%	9,43	13,6	5		
(177) Mindray; (771) MINDRAY BC 6xxx series		11,7	0,48	4,1	27	0	CVPG	11,5	0,24	18%	9,43	13,6	27		
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		11,3	0,72	6,4	15	0	CVPG	11,3	0,46	18%	9,26	13,4	15		
Other					27	0							21		
							1x 1/702, 2x 1/763, 2x 1/765, 3x 12/718, 3x 46/999, 4x 63/749, 3x 63/755, 4x 157/741, 1x 157/743, 1x 177/999, 2x 204/716, 1x 205/706								

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							AV	U _{AV}	D _{max}	LL	UL			
Sample B		11,1	0,73	6,6	187							181	179	99
(12) Beckman Coulter; (773) Beckman Coulter DxH 600/800/900, HMX series, LH series		9,4	0,15	1,6	7	0	CVPG	9,48	0,23	18%	7,77	11,2	7	
(63) Sysmex; (772) Sysmex XN series		11,3	0,45	4	101	0	CVPG	11,3	0,11	18%	9,26	13,4	101	
(177) Mindray; (766) MINDRAY BC 2xxx, 3xxx series		10,7	0,44	4,2	5	0	CVPG	11,2	0,31	18%	9,18	13,3	5	
(177) Mindray; (768) MINDRAY BC 5xxx series		10,6	0,44	4,2	5	0	CVPG	11,2	0,31	18%	9,18	13,3	5	
(177) Mindray; (771) MINDRAY BC 6xxx series		11,5	0,68	5,9	27	0	CVPG	11,2	0,31	18%	9,18	13,3	27	
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		10,9	0,8	7,4	15	0	CVPG	10,9	0,51	18%	8,93	12,9	15	
Other					27	0							21	
														1x 1/702, 2x 1/763, 2x 1/765, 3x 12/718, 3x 46/999, 4x 63/749, 3x 63/755, 4x 157/741, 1x 157/743, 1x 177/999, 2x 204/716, 1x 205/706
(129) Immature platelet fraction	[%]				23							22	19	86
Sample A		4,68	1,6	34	23							22	20	91
(63) Sysmex; (772) Sysmex XN series		5,23	1	20	15	0	CVPG	5,23	0,65	40%	3,13	7,33	15	
(177) Mindray; (771) MINDRAY BC 6xxx series		3,2	1,3	42	7	0	CVPG	3,2	1,3	40%	1,92	4,48	7	
Other					1	0							0	
														1x 1/763
Sample B		3,08	0,95	31	23							22	20	91
(63) Sysmex; (772) Sysmex XN series		3,29	0,75	23	15	0	CVPG	3,29	0,47	40%	1,97	4,61	15	
(177) Mindray; (771) MINDRAY BC 6xxx series		2,6	1,2	46	7	0	CVPG	2,6	1,2	40%	1,56	3,64	7	
Other					1	0							0	
														1x 1/763
(158) PDW [%]	[%]				19							14	11	79
Sample A		32,1	18	56	19							14	13	93
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		45,4	2,6	5,7	9	0	CVPG	45,4	3,2	15%	38,5	52,3	9	
Other					10	0							5	
														3x 46/999, 1x 149/737, 4x 157/741, 1x 157/743, 1x 205/706
Sample B		28,7	16	55	19							14	11	79
(179) Siemens; (737) Siemens Advia 120, 2120, 2120i		40,9	6,6	16	9	0	CVPG	40,9	8,1	15%	34,7	47,1	9	
Other					10	0							5	
														3x 46/999, 1x 149/737, 4x 157/741, 1x 157/743, 1x 205/706
(165) PDW [fL]	[fL]				100							100	94	94
Sample A		14,2	0,71	5	100		CVP	14,2	0,17	15%	12	16,4	100	100
(772) Sysmex XN series		14,1	0,72	5,1	94	0							94	
Other					6	0							6	
														3x 749, 3x 755
Sample B		13,1	0,87	6,6	100		CVP	13,1	0,21	15%	11,1	15,1	100	94
(772) Sysmex XN series		13,2	0,87	6,6	94	0							94	
Other					6	0							6	
														3x 749, 3x 755
(166) PDW [-]	[-]				33							33	33	100
Sample A		16,3	0,24	1,4	33		CVP	16,3	0,1	15%	13,8	18,8	33	33
(771) MINDRAY BC 6xxx series		16,4	0,2	1,2	25	0							25	
Other					8	0							8	
														4x 766, 3x 768, 1x 999
Sample B		15,7	0,28	1,8	33		CVP	15,7	0,12	15%	13,3	18,1	33	33
(771) MINDRAY BC 6xxx series		15,7	0,19	1,2	25	0							25	
Other					8	0							8	
														4x 766, 3x 768, 1x 999
(160) Neutrophiles	[·10 ⁹ /L]				170							168	164	98
Sample A		2,96	0,15	5,2	170							168	164	98
(737) Siemens Advia 120, 2120, 2120i		2,83	0,13	4,5	16	0	CVP	2,97	0,028	25%	2,22	3,72	16	
(771) MINDRAY BC 6xxx series		3,06	0,13	4,1	24	0	CVP	2,97	0,028	25%	2,22	3,72	24	
(772) Sysmex XN series		2,99	0,12	3,9	102	1	CVP	2,97	0,028	25%	2,22	3,72	102	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		2,91	0,074	2,5	6	0	CVP	2,97	0,028	25%	2,22	3,72	6	
(999) another system		2,63	0,7	27	5	0	CVP	2,97	0,028	25%	2,22	3,72	5	
Other					17	0							15	
														2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768
Sample B		6,25	0,25	3,9	170							168	167	99
(737) Siemens Advia 120, 2120, 2120i		5,47	0,39	7,1	16	0	CVP	6,25	0,047	25%	4,68	7,82	16	
(771) MINDRAY BC 6xxx series		6,37	0,17	2,7	24	0	CVP	6,25	0,047	25%	4,68	7,82	24	
(772) Sysmex XN series		6,31	0,16	2,6	102	0	CVP	6,25	0,047	25%	4,68	7,82	102	
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		6,18	0,14	2,3	6	0	CVP	6,25	0,047	25%	4,68	7,82	6	
(999) another system		6,2	0,54	8,7	5	0	CVP	6,25	0,047	25%	4,68	7,82	5	

EQA round: KO3/24 - Blood Count

Deadline: 17.5.2024

Setup: groups - S (measuring system); minimal size of the groups n = 5

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				
Other					17	0						15			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768															
(161) Lymphocytes	[·10 ⁹ /L]				171							169	160	95	
Sample A		1,01	0,058	5,7	171							169	163	96	
(737) Siemens Advia 120, 2120, 2120i		0,916	0,069	7,5	16	2	CVP	1,01	0,011	25%	0,757	1,27	16		
(749) Sysmex XE, XS, XT series		1,01	0,015	1,5	5	0	CVP	1,01	0,011	25%	0,757	1,27	5		
(771) MINDRAY BC 6xxx series		0,973	0,051	5,2	24	0	CVP	1,01	0,011	25%	0,757	1,27	24		
(772) Sysmex XN series		1,02	0,043	4,2	101	1	CVP	1,01	0,011	25%	0,757	1,27	101		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,989	0,053	5,3	6	0	CVP	1,01	0,011	25%	0,757	1,27	6		
(999) another system		1,33	0,46	35	5	0	CVP	1,01	0,011	25%	0,757	1,27	5		
Other					14	0						12			
2x 716, 3x 718, 2x 743, 2x 763, 2x 765, 1x 766, 2x 768															
Sample B		1,03	0,066	6,4	171							169	163	96	
(737) Siemens Advia 120, 2120, 2120i		0,95	0,12	12	16	4	CVP	1,03	0,013	25%	0,772	1,29	16		
(749) Sysmex XE, XS, XT series		1,09	0,045	4,1	5	0	CVP	1,03	0,013	25%	0,772	1,29	5		
(771) MINDRAY BC 6xxx series		0,994	0,055	5,5	24	0	CVP	1,03	0,013	25%	0,772	1,29	24		
(772) Sysmex XN series		1,05	0,048	4,6	101	1	CVP	1,03	0,013	25%	0,772	1,29	101		
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,947	0,07	7,4	6	0	CVP	1,03	0,013	25%	0,772	1,29	6		
(999) another system		1,13	0,23	20	5	0	CVP	1,03	0,013	25%	0,772	1,29	5		
Other					14	2						12			
2x 716, 3x 718, 2x 743, 2x 763, 2x 765, 1x 766, 2x 768															
(162) Monocytes	[·10 ⁹ /L]				169							169	157	93	
Sample A		0,212	0,041	19	169		CVP	0,212	0,008	50%	0,106	0,318	169	158	93
(737) Siemens Advia 120, 2120, 2120i		0,195	0,062	32	16	0						16			
(771) MINDRAY BC 6xxx series		0,154	0,029	19	24	0						24			
(772) Sysmex XN series		0,227	0,024	10	102	0						102			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,179	0,04	22	6	0						6			
Other					21	0						21			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 1x 766, 2x 768, 3x 999															
Sample B		0,603	0,078	13	169		CVP	0,603	0,015	50%	0,301	0,905	169	161	95
(737) Siemens Advia 120, 2120, 2120i		0,721	0,2	28	16	0						16			
(771) MINDRAY BC 6xxx series		0,496	0,04	8,1	24	0						24			
(772) Sysmex XN series		0,62	0,046	7,4	102	0						102			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,597	0,02	3,4	6	0						6			
Other					21	0						21			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 1x 766, 2x 768, 3x 999															
(163) Eosinophils	[·10 ⁹ /L]				168							168	157	93	
Sample A		0,122	0,016	13	168		CVP	0,122	0,003	50%	0,061	0,183	168	163	97
(737) Siemens Advia 120, 2120, 2120i		0,098	0,031	31	16	0						16			
(771) MINDRAY BC 6xxx series		0,125	0,014	11	24	0						24			
(772) Sysmex XN series		0,124	0,014	11	102	0						102			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,12	0,029	24	6	0						6			
Other					20	0						20			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768, 3x 999															
Sample B		0,082	0,013	15	168		CVP	0,082	0,002	50%	0,041	0,123	168	160	95
(737) Siemens Advia 120, 2120, 2120i		0,075	0,009	12	16	0						16			
(771) MINDRAY BC 6xxx series		0,08	0,013	17	24	0						24			
(772) Sysmex XN series		0,082	0,011	14	102	0						102			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,087	0,02	23	6	0						6			
Other					20	0						20			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768, 3x 999															
(164) Basophiles	[·10 ⁹ /L]				168							168	164	98	
Sample A		0,049	0,022	44	168		CVP	0,049	0,004	asym.	0	0,13	168	164	98
(737) Siemens Advia 120, 2120, 2120i		0,048	0,02	42	16	0						16			
(771) MINDRAY BC 6xxx series		0,03	0,018	62	24	0						24			
(772) Sysmex XN series		0,055	0,015	28	102	0						102			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,014	0,006	42	6	0						6			
Other					20	0						20			
2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768, 3x 999															
Sample B		0,026	0,012	44	168		CVP	0,026	0,002	asym.	0	0,239	168	168	100
(737) Siemens Advia 120, 2120, 2120i		0,048	0,037	78	16	0						16			
(771) MINDRAY BC 6xxx series		0,015	0,011	69	24	0						24			
(772) Sysmex XN series		0,026	0,01	37	102	0						102			

EQA round: KO3/24 - Blood Count

Deadline: 17.5.2024

Setup: groups - S (measuring system); minimal size of the groups n = 5

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			
(773) Beckman Coulter DxH 600/800/900, HMX series, LH series		0,034	0,014	42	6	0						6		
Other					20	0						20		
							2x 716, 3x 718, 2x 743, 4x 749, 2x 763, 2x 765, 2x 768, 3x 999							