

## EQA round: CD341/23 - Population of CD34+ Cells

Deadline: 1.5.2023

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

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

Test Sample Group	[unit]	RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	Comparability						N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
							AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL				
<b>(692) CD 34+ (absolute count)</b>	[count/μL]				22								22	22	100
<b>Sample A</b>		57,9	4,3	7,4	22		CVP	57,9	2,2	25%	43,4	72,4	22	22	100
(12) Beckman Coulter		61	0,69	1,1	9	0							9		
(88) Becton Dickinson		55,2	6,3	11	9	0							9		
Other					4	0							4		
								2x 0, 1x 36, 1x 190							
<b>Sample B</b>		61,1	4,3	7	22		CVP	61,1	2,2	25%	45,8	76,4	22	22	100
(12) Beckman Coulter		62,4	2,4	3,8	9	0							9		
(88) Becton Dickinson		60,2	7,5	12	9	0							9		
Other					4	0							4		
								2x 0, 1x 36, 1x 190							
<b>(691) CD 34+ (relative count)</b>	[%]				22								22	22	100
<b>Sample A</b>		1,01	0,077	7,6	22		CVP	1,01	0,04	25%	0,757	1,27	22	22	100
(12) Beckman Coulter		1,03	0,045	4,3	9	0							9		
(88) Becton Dickinson		0,96	0,07	7,3	11	0							11		
Other					2	0							2		
								1x 36, 1x 190							
<b>Sample B</b>		0,353	0,023	6,4	22		CVP	0,353	0,012	25%	0,264	0,442	22	22	100
(12) Beckman Coulter		0,36	0,015	4,1	9	0							9		
(88) Becton Dickinson		0,351	0,032	9,1	11	0							11		
Other					2	0							2		
								1x 36, 1x 190							
<b>(690) WBC</b>	[·10 <sup>9</sup> /L]				22								22	22	100
<b>Sample A</b>		5,73	0,22	3,8	22		CVP	5,73	0,11	15%	4,87	6,59	22	22	100
(12) Beckman Coulter		5,64	0,089	1,6	5	0							5		
(63) Sysmex		5,75	0,17	3	13	0							13		
Other					4	0							4		
								3x 88, 1x 177							
<b>Sample B</b>		17,4	0,81	4,6	22		CVP	17,4	0,42	15%	14,7	20,1	22	22	100
(12) Beckman Coulter		16,9	0,43	2,5	5	0							5		
(63) Sysmex		17,5	0,79	4,5	13	0							13		
Other					4	0							4		
								3x 88, 1x 177							