

## EQA round: CD342/23 - Population of CD34+ Cells

Deadline: 6.11.2023

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

RoM = robust average

SD = standard deviation

CV = coefficient of variation

N<sub>tot</sub> = total number of the resultsN<sub>out</sub> = number of the results removed before calculation

AV = assigned value

CVP = consensus of all participants

U<sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)D<sub>max</sub> = acceptable difference

LL = lower limit

UL = upper limit

N<sub>eva</sub> = number of the results assessedN<sub>suc</sub> = number of successful resultsS<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/ $\mu$ L]				21								21	20	95
<b>Sample A</b>		56,7	6,6	12	21		CVP	56,7	3,5	25%	42,5	70,9	21	20	95
(12) Beckman Coulter		59,9	3,4	5,6	10	0							10		
(88) Becton Dickinson		51,6	6,2	12	7	0							7		
Other					4	0							4		
								2x 0, 1x 36, 1x 190							
<b>Sample B</b>		54,3	5,5	10	21		CVP	54,3	2,9	25%	40,7	67,9	21	20	95
(12) Beckman Coulter		57,5	3	5,3	10	0							10		
(88) Becton Dickinson		51,8	4,4	8,5	7	0							7		
Other					4	0							4		
								2x 0, 1x 36, 1x 190							
<b>(691) CD 34+ (relative count)</b>	[%]				21								21	20	95
<b>Sample A</b>		0,155	0,014	8,7	21		CVP	0,155	0,007	25%	0,116	0,194	21	20	95
(12) Beckman Coulter		0,164	0,008	4,9	10	0							10		
(88) Becton Dickinson		0,148	0,011	7,5	9	0							9		
Other					2	0							2		
								1x 36, 1x 190							
<b>Sample B</b>		0,447	0,033	7,3	21		CVP	0,447	0,017	25%	0,335	0,559	21	20	95
(12) Beckman Coulter		0,466	0,015	3,1	10	0							10		
(88) Becton Dickinson		0,425	0,022	5,2	9	0							9		
Other					2	0							2		
								1x 36, 1x 190							
<b>(690) WBC</b>	[ $\cdot 10^9/L$ ]				21								21	20	95
<b>Sample A</b>		36,2	1,2	3,4	21		CVP	36,2	0,66	15%	30,7	41,7	21	20	95
(12) Beckman Coulter		37	2,5	6,8	5	0							5		
(63) Sysmex		36,5	0,61	1,7	13	0							13		
Other					3	0							3		
								2x 88, 1x 177							
<b>Sample B</b>		12,2	0,41	3,3	21		CVP	12,2	0,22	15%	10,3	14,1	21	21	100
(12) Beckman Coulter		12,2	0,42	3,4	5	0							5		
(63) Sysmex		12,2	0,54	4,5	13	0							13		
Other					3	0							3		
								2x 88, 1x 177							