

EQA round: CD341/25 - Population of CD34+ Cells

Deadline: 21.4.2025

Setup: groups - R (manufacturer of kit); 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 | U _{AV} = expanded uncertainty of the assigned value (k = 2) | UL = upper limit |
| N _{tot} = total number of the results | | 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 | | | | |
| (692) CD 34+ (absolute count) | [·10 ⁶ /L] | | | | 26 | | | | | | | 26 | 20 | 77 | |
| Sample A | | 19,8 | 4 | 20 | 26 | | CVP | 19,8 | 1,9 | 25% | 14,8 | 24,8 | 26 | 20 | 77 |
| (12) Beckman Coulter | | 20,7 | 3,9 | 19 | 10 | 0 | | | | | | | 10 | | |
| (88) Becton Dickinson | | 17,6 | 3,8 | 22 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 10 | 0 | | | | | | | 10 | | |
| | | | | | | | | 3x 0, 1x 63, 4x 190, 2x 999 | | | | | | | |
| Sample B | | 3 | 0,6 | 20 | 26 | | CVP | 3 | 0,29 | ±1,25 | 1,75 | 4,25 | 26 | 25 | 96 |
| (12) Beckman Coulter | | 2,76 | 0,51 | 19 | 10 | 0 | | | | | | | 10 | | |
| (88) Becton Dickinson | | 2,8 | 0,47 | 17 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 10 | 0 | | | | | | | 10 | | |
| | | | | | | | | 3x 0, 1x 63, 4x 190, 2x 999 | | | | | | | |
| (691) CD 34+ (relative count) | [%] | | | | 26 | | | | | | | 26 | 22 | 85 | |
| Sample A | | 0,42 | 0,054 | 13 | 26 | | CVP | 0,42 | 0,026 | 25% | 0,315 | 0,525 | 26 | 24 | 92 |
| (12) Beckman Coulter | | 0,413 | 0,039 | 9,4 | 13 | 0 | | | | | | | 13 | | |
| (88) Becton Dickinson | | 0,425 | 0,052 | 12 | 9 | 0 | | | | | | | 9 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | | 4x 190 | | | | | | | |
| Sample B | | 0,165 | 0,031 | 19 | 26 | | CVP | 0,165 | 0,015 | 25% | 0,123 | 0,207 | 26 | 23 | 88 |
| (12) Beckman Coulter | | 0,162 | 0,028 | 17 | 13 | 0 | | | | | | | 13 | | |
| (88) Becton Dickinson | | 0,157 | 0,025 | 16 | 9 | 0 | | | | | | | 9 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | | 4x 190 | | | | | | | |
| (690) WBC | [·10 ⁹ /L] | | | | 26 | | | | | | | 26 | 23 | 88 | |
| Sample A | | 4,79 | 0,29 | 6,1 | 26 | | CVP | 4,79 | 0,14 | 15% | 4,07 | 5,51 | 26 | 23 | 88 |
| (63) Sysmex | | 4,88 | 0,22 | 4,5 | 18 | 0 | | | | | | | 18 | | |
| Other | | | | | 8 | 0 | | | | | | | 8 | | |
| | | | | | | | | 4x 12, 2x 88, 1x 177, 1x 190 | | | | | | | |
| Sample B | | 1,79 | 0,12 | 6,6 | 26 | | CVP | 1,79 | 0,056 | 15% | 1,52 | 2,06 | 26 | 26 | 100 |
| (63) Sysmex | | 1,8 | 0,13 | 7,1 | 18 | 0 | | | | | | | 18 | | |
| Other | | | | | 8 | 0 | | | | | | | 8 | | |
| | | | | | | | | 4x 12, 2x 88, 1x 177, 1x 190 | | | | | | | |