

EQA round: CD341/26 - Population of CD34+ Cells

Deadline: 27.4.2026

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 | 25 | 96 | |
| Sample A | | 37,9 | 3,1 | 8,2 | 26 | | CVP | 37,9 | 1,5 | 25% | 28,4 | 47,4 | 26 | 25 | 96 |
| (12) Beckman Coulter | | 38,2 | 2,8 | 7,4 | 10 | 0 | | | | | | | 10 | | |
| (88) Becton Dickinson | | 36,5 | 1,5 | 4,1 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 10 | 0 | | | | | | | 10 | | |
| | | | | | | | | 3x 0, 1x 63, 4x 190, 2x 999 | | | | | | | |
| Sample B | | 131 | 12 | 9,1 | 26 | | CVP | 131 | 5,8 | 25% | 98,2 | 164 | 26 | 25 | 96 |
| (12) Beckman Coulter | | 133 | 14 | 11 | 10 | 0 | | | | | | | 10 | | |
| (88) Becton Dickinson | | 122 | 18 | 14 | 6 | 0 | | | | | | | 6 | | |
| Other | | | | | 10 | 0 | | | | | | | 10 | | |
| | | | | | | | | 3x 0, 1x 63, 4x 190, 2x 999 | | | | | | | |
| (691) CD 34+ (relative count) | [%] | | | | 26 | | | | | | | 26 | 24 | 92 | |
| Sample A | | 0,887 | 0,062 | 7 | 26 | | CVP | 0,887 | 0,03 | 25% | 0,665 | 1,11 | 26 | 26 | 100 |
| (12) Beckman Coulter | | 0,893 | 0,038 | 4,3 | 13 | 0 | | | | | | | 13 | | |
| (88) Becton Dickinson | | 0,86 | 0,074 | 8,6 | 9 | 0 | | | | | | | 9 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | | 4x 190 | | | | | | | |
| Sample B | | 0,311 | 0,026 | 8,4 | 26 | | CVP | 0,311 | 0,013 | 25% | 0,233 | 0,389 | 26 | 24 | 92 |
| (12) Beckman Coulter | | 0,306 | 0,023 | 7,4 | 13 | 0 | | | | | | | 13 | | |
| (88) Becton Dickinson | | 0,312 | 0,017 | 5,5 | 9 | 0 | | | | | | | 9 | | |
| Other | | | | | 4 | 0 | | | | | | | 4 | | |
| | | | | | | | | 4x 190 | | | | | | | |
| (690) WBC | [·10 ⁹ /L] | | | | 26 | | | | | | | 26 | 26 | 100 | |
| Sample A | | 4,28 | 0,2 | 4,8 | 26 | | CVP | 4,28 | 0,098 | 15% | 3,63 | 4,93 | 26 | 26 | 100 |
| (63) Sysmex | | 4,31 | 0,19 | 4,4 | 17 | 0 | | | | | | | 17 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | | 4x 12, 2x 88, 2x 177, 1x 190 | | | | | | | |
| Sample B | | 42,3 | 1,4 | 3,4 | 26 | | CVP | 42,3 | 0,69 | 15% | 35,9 | 48,7 | 26 | 26 | 100 |
| (63) Sysmex | | 42,8 | 1,1 | 2,6 | 17 | 0 | | | | | | | 17 | | |
| Other | | | | | 9 | 0 | | | | | | | 9 | | |
| | | | | | | | | 4x 12, 2x 88, 2x 177, 1x 190 | | | | | | | |