

EQA round: DIF1/25 - Peripheral Blood Morphology Evaluation

Deadline: 14.3.2025

Setup: all data

| | | |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|
| RoM = robust average | AV = assigned value | D _{max} = acceptable difference |
| SD = standard deviation | CVE = consensus of the experts | 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 |
| SD, CV, U _{AV} , D _{max} we do not report for tests with binomial distribution | | S _{rel} = relative success |

| Sample Test Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | N _{eva} | N _{suc} | S _{rel} [%] |
|-------------------------|--------|-----|----|-----------|------------------|------------------|---------------|-----------------|------------------|------------------|------------------|-------------------------|
| | | | | | | | AV | U _{AV} | D _{max} | | | |

Sample A

| | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------|------------------------|-------|--|--|-----|---|-----|-------|--|--|-------|-------|-----|
| (901) WBC - differential count: Blasts | [-] | | | | | | | | | | 145 | 144 | 99 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | | 0 | 0,018 | 145 |
| (902) WBC - differential count: Promyelocytes | [-] | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | | 0 | 0,018 | 145 |
| (903) WBC - differential count: Neutrophil myelocytes | [-] | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0,001 | | | 0 | 0,018 | 145 |
| (904) WBC - differential count: Neutrophil metamyelocytes | [-] | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | | 0 | 0,018 | 145 |
| (905) WBC - differential count: Neutrophil bars | [-] | | | | | | | | | | 145 | 138 | 95 |
| All results | | 0,008 | | | 145 | 0 | CVE | 0,006 | | | 0 | 0,028 | 145 |
| (906) WBC - differential count: Segmented neutrophil granulocytes | [-] | | | | | | | | | | 145 | 140 | 97 |
| All results | | 0,589 | | | 145 | 0 | CVE | 0,584 | | | 0,513 | 0,654 | 145 |
| (907) WBC - differential count: Eosinophil granulocytes - immature forms | [-] | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | | 0 | 0,018 | 145 |
| (908) WBC - differential count: Eosinophil segmented granulocytes | [-] | | | | | | | | | | 145 | 138 | 95 |
| All results | | 0,01 | | | 145 | 0 | CVE | 0,008 | | | 0,001 | 0,036 | 145 |
| (909) WBC - differential count: Basophilic granulocytes | [-] | | | | | | | | | | 145 | 122 | 84 |
| All results | | 0,008 | | | 145 | 0 | CVE | 0,01 | | | 0,001 | 0,036 | 145 |
| (910) WBC - differential count: Monocytes | [-] | | | | | | | | | | 145 | 141 | 97 |
| All results | | 0,069 | | | 145 | 0 | CVE | 0,067 | | | 0,035 | 0,109 | 145 |
| (911) WBC - differential count: Lymphocytes | [-] | | | | | | | | | | 145 | 137 | 94 |
| All results | | 0,312 | | | 145 | 0 | CVE | 0,321 | | | 0,256 | 0,389 | 145 |
| (912) WBC - differential count: Plasma cells | [-] | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | | 0 | 0,018 | 145 |
| (940) Erythroblasts | [in 100 differ. cells] | | | | | | | | | | 145 | 135 | 93 |
| All results | | 10,6 | | | 145 | 0 | CVE | 11 | | | 7 | 16 | 145 |

Sample B

| | | | | | | | | | | | | | |
|---------------------------------------------------------------------------------|-----|-------|--|--|-----|---|-----|-------|--|--|-------|-------|-----|
| (901) WBC - differential count: Blasts | [-] | | | | | | | | | | 145 | 129 | 89 |
| All results | | 0,078 | | | 145 | 0 | CVE | 0,072 | | | 0,039 | 0,115 | 145 |
| (902) WBC - differential count: Promyelocytes | [-] | | | | | | | | | | 145 | 120 | 83 |
| All results | | 0,01 | | | 145 | 0 | CVE | 0,008 | | | 0,001 | 0,036 | 145 |
| (903) WBC - differential count: Neutrophil myelocytes | [-] | | | | | | | | | | 145 | 134 | 92 |
| All results | | 0,05 | | | 145 | 0 | CVE | 0,057 | | | 0,028 | 0,096 | 145 |
| (904) WBC - differential count: Neutrophil metamyelocytes | [-] | | | | | | | | | | 145 | 131 | 90 |
| All results | | 0,052 | | | 145 | 0 | CVE | 0,047 | | | 0,021 | 0,084 | 145 |
| (905) WBC - differential count: Neutrophil bars | [-] | | | | | | | | | | 145 | 122 | 84 |
| All results | | 0,115 | | | 145 | 0 | CVE | 0,114 | | | 0,074 | 0,168 | 145 |
| (906) WBC - differential count: Segmented neutrophil granulocytes | [-] | | | | | | | | | | 145 | 117 | 81 |
| All results | | 0,511 | | | 145 | 0 | CVE | 0,497 | | | 0,424 | 0,566 | 145 |
| (907) WBC - differential count: Eosinophil granulocytes - immature forms | [-] | | | | | | | | | | 145 | 114 | 79 |
| All results | | 0,011 | | | 145 | 0 | CVE | 0,013 | | | 0,003 | 0,043 | 145 |
| (908) WBC - differential count: Eosinophil segmented granulocytes | [-] | | | | | | | | | | 145 | 127 | 88 |
| All results | | 0,026 | | | 145 | 0 | CVE | 0,031 | | | 0,011 | 0,064 | 145 |

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| Sample Test Group | [unit] | RoM | SD | CV [%] | N _{tot} | N _{out} | Comparability | | | | | N _{eva} | N _{suc} | S _{rel} [%] |
|----------------------------------------------------------------|------------------------|-------|----|-----------|------------------|------------------|---------------|-----------------|------------------|-------|-------|------------------|------------------|-------------------------|
| | | | | | | | AV | U _{AV} | D _{max} | LL | UL | | | |
| (909) WBC - differential count: Basophilic granulocytes | [-] | | | | | | | | | | | 145 | 94 | 65 |
| All results | | 0,068 | | | 145 | 0 | CVE | 0,093 | | 0,058 | 0,144 | 145 | | |
| (910) WBC - differential count: Monocytes | [-] | | | | | | | | | | | 145 | 124 | 86 |
| All results | | 0,01 | | | 145 | 0 | CVE | 0,008 | | 0,001 | 0,036 | 145 | | |
| (911) WBC - differential count: Lymphocytes | [-] | | | | | | | | | | | 145 | 138 | 95 |
| All results | | 0,062 | | | 145 | 0 | CVE | 0,061 | | 0,031 | 0,102 | 145 | | |
| (912) WBC - differential count: Plasma cells | [-] | | | | | | | | | | | 145 | 145 | 100 |
| All results | | 0 | | | 145 | 0 | CVE | 0 | | 0 | 0,018 | 145 | | |
| (940) Erythroblasts | [in 100 differ. cells] | | | | | | | | | | | 145 | 144 | 99 |
| All results | | 1,26 | | | 145 | 0 | CVE | 1 | | 0 | 4 | 145 | | |