

## EQA round: DIF3/24 - Peripheral Blood Morphology Evaluation

Deadline: 13.9.2024

Setup: all data

RoM = robust average	AV = assigned value	D <sub>max</sub> = acceptable difference
SD = standard deviation	CVE = consensus of the experts	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
SD, CV, U <sub>av</sub> , D <sub>max</sub> we do not report for tests with binomial distribution		S <sub>rel</sub> = relative success

Sample Test 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>			

**Sample A**

(901) <b>WBC - differential count: Blasts</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(902) <b>WBC - differential count: Promyelocytes</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(903) <b>WBC - differential count: Neutrophil myelocytes</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(904) <b>WBC - differential count: Neutrophil metamyelocytes</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(905) <b>WBC - differential count: Neutrophil bars</b>	[-]											127	93	73
All results		0,009			127	0	CVE	0,01			0,001, 0,036	127		
(906) <b>WBC - differential count: Segmented neutrophil granulocytes</b>	[-]											127	123	97
All results		0,39			127	0	CVE	0,401			0,332, 0,471	127		
(907) <b>WBC - differential count: Eosinophil granulocytes - immature forms</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(908) <b>WBC - differential count: Eosinophil segmented granulocytes</b>	[-]											127	124	98
All results		0,014			127	0	CVE	0,014			0,003, 0,043	127		
(909) <b>WBC - differential count: Basophilic granulocytes</b>	[-]											127	127	100
All results		0,006			127	0	CVE	0,006			0, 0,028	127		
(910) <b>WBC - differential count: Monocytes</b>	[-]											127	118	93
All results		0,028			127	0	CVE	0,022			0,005, 0,05	127		
(911) <b>WBC - differential count: Lymphocytes</b>	[-]											127	123	97
All results		0,55			127	0	CVE	0,547			0,473, 0,615	127		
(912) <b>WBC - differential count: Plasma cells</b>	[-]											127	126	99
All results		0			127	0	CVE	0			0, 0,018	127		
(940) <b>Erythroblasts</b>	[in 100 differ. cells]											127	127	100
All results		0			127	0	CVE	0			0, 2	127		

**Sample B**

(901) <b>WBC - differential count: Blasts</b>	[-]											127	125	98
All results		0			127	0	CVE	0			0, 0,018	127		
(902) <b>WBC - differential count: Promyelocytes</b>	[-]											127	125	98
All results		0			127	0	CVE	0			0, 0,018	127		
(903) <b>WBC - differential count: Neutrophil myelocytes</b>	[-]											127	93	73
All results		0,007			127	0	CVE	0,01			0,001, 0,036	127		
(904) <b>WBC - differential count: Neutrophil metamyelocytes</b>	[-]											127	100	79
All results		0,008			127	0	CVE	0,009			0,001, 0,036	127		
(905) <b>WBC - differential count: Neutrophil bars</b>	[-]											127	100	79
All results		0,008			127	0	CVE	0,009			0,001, 0,036	127		
(906) <b>WBC - differential count: Segmented neutrophil granulocytes</b>	[-]											127	121	95
All results		0,835			127	0	CVE	0,847			0,787, 0,892	127		
(907) <b>WBC - differential count: Eosinophil granulocytes - immature forms</b>	[-]											127	127	100
All results		0			127	0	CVE	0			0, 0,018	127		
(908) <b>WBC - differential count: Eosinophil segmented granulocytes</b>	[-]											127	126	99
All results		0,004			127	0	CVE	0,003			0, 0,028	127		

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Sample Test 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			
(909) WBC - differential count: Basophilic granulocytes	[-]											127	127	100
All results		0			127	0	CVE	0		0	0,018	127		
(910) WBC - differential count: Monocytes	[-]											127	121	95
All results		0,04			127	0	CVE	0,037		0,014	0,071	127		
(911) WBC - differential count: Lymphocytes	[-]											127	117	92
All results		0,093			127	0	CVE	0,081		0,046	0,127	127		
(912) WBC - differential count: Plasma cells	[-]											127	127	100
All results		0			127	0	CVE	0		0	0,018	127		
(940) Erythroblasts	[in 100 differ. cells]											127	127	100
All results		0,001			127	0	CVE	0		0	2	127		