

EQA round: DIF4/24 - Peripheral Blood Morphology Evaluation

Deadline: 25.10.2024

Setup: Slovakia

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	[-]										16	13	81
All results		0,082			16	0	CVE 0,068		0,039	0,115	16		
(902) WBC - differential count: Promyelocytes	[-]										16	15	94
All results		0,013			16	0	CVE 0,008		0,001	0,036	16		
(903) WBC - differential count: Neutrophil myelocytes	[-]										16	11	69
All results		0,039			16	0	CVE 0,056		0,028	0,096	16		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]										16	12	75
All results		0,048			16	0	CVE 0,041		0,017	0,077	16		
(905) WBC - differential count: Neutrophil bars	[-]										16	12	75
All results		0,077			16	0	CVE 0,079		0,046	0,127	16		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]										16	8	50
All results		0,284			16	0	CVE 0,344		0,279	0,415	16		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]										16	10	63
All results		0,049			16	0	CVE 0,05		0,024	0,09	16		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]										16	14	88
All results		0,219			16	0	CVE 0,206		0,151	0,268	16		
(909) WBC - differential count: Basophilic granulocytes	[-]										16	14	88
All results		0,017			16	0	CVE 0,02		0,005	0,05	16		
(910) WBC - differential count: Monocytes	[-]										16	12	75
All results		0,089			16	0	CVE 0,093		0,058	0,144	16		
(911) WBC - differential count: Lymphocytes	[-]										16	13	81
All results		0,057			16	0	CVE 0,035		0,014	0,071	16		
(912) WBC - differential count: Plasma cells	[-]										16	16	100
All results		0			16	0	CVE 0		0	0,018	16		
(940) Erythroblasts	[in 100 differ. cells]										16	16	100
All results		0,892			16	0	CVE 1		0	4	16		

Sample B

(901) WBC - differential count: Blasts	[-]										16	15	94
All results		0			16	0	CVE 0		0	0,018	16		
(902) WBC - differential count: Promyelocytes	[-]										16	16	100
All results		0			16	0	CVE 0		0	0,018	16		
(903) WBC - differential count: Neutrophil myelocytes	[-]										16	16	100
All results		0			16	0	CVE 0		0	0,018	16		
(904) WBC - differential count: Neutrophil metamyelocytes	[-]										16	16	100
All results		0			16	0	CVE 0,002		0	0,018	16		
(905) WBC - differential count: Neutrophil bars	[-]										16	12	75
All results		0,027			16	0	CVE 0,021		0,005	0,05	16		
(906) WBC - differential count: Segmented neutrophil granulocytes	[-]										16	13	81
All results		0,765			16	0	CVE 0,798		0,738	0,853	16		
(907) WBC - differential count: Eosinophil granulocytes - immature forms	[-]										16	16	100
All results		0			16	0	CVE 0		0	0,018	16		
(908) WBC - differential count: Eosinophil segmented granulocytes	[-]										16	16	100
All results		0,006			16	0	CVE 0,005		0	0,028	16		

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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	[-]											16	16	100
All results		0,01			16	0	CVE 0,009		0,001	0,036		16		
(910) WBC - differential count: Monocytes	[-]											16	14	88
All results		0,082			16	0	CVE 0,082		0,046	0,127		16		
(911) WBC - differential count: Lymphocytes	[-]											16	13	81
All results		0,098			16	0	CVE 0,078		0,046	0,127		16		
(912) WBC - differential count: Plasma cells	[-]											16	15	94
All results		0			16	0	CVE 0		0	0,018		16		
(940) Erythroblasts	[in 100 differ. cells]											16	16	100
All results		2,75			16	0	CVE 3		1	6		16		