

EQA round: GLC1/25 - Glucose (Including Glucometers)

Setup: Slovakia; minimal size of the groups n = 5

RoM = robust average	AV = assigned value	D_{max} = acceptable difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	CVP = consensus of all participants	UL = upper limit
N_{tot} = total number of the results	CVPG = consensus of the participants' groups	N_{eva} = number of the results assessed
N_{out} = number of the results removed before calculation	U_{AV} = expanded uncertainty of the assigned value ($k = 2$)	N_{suc} = number of successful results
		S_{rel} = relative success

Test Sample Group	[unit]	RoM	SD	CV [%]	N_{tot}	N_{out}	Comparability						Traceability							
							AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel} [%]	AV	U_{AV}	D_{max}	LL	UL	N_{eva}
(140) Glucose (laboratory systems)	[mmol/L]				15	0						0						15	13	87
Sample A												0						15	14	93
All results (traceability)		5,14	0,4	7,8	15	0								CRV	5,366	0,054	15%	4,56	6,18	15
Sample B												0						15	13	87
All results (traceability)		12	0,68	5,7	15	0								CRV	12,51	0,13	15%	10,6	14,4	15
(780) Glucose (Nova POCT)	[mmol/L]				20							20	12	60						0
Sample A												20	20	100						0
All results		5,11	0,32	6,3	20	0	CVP	5,01	$0,019 \pm 0,833$	4,17	5,85									
Sample B												20	12	60						0
All results		11,9	1,5	13	20	0	CVP	10,9	0,039	15%	9,26	12,6								
(781) Glucose (Roche POCT)	[mmol/L]				80							80	80	100						0
Sample A												80	80	100						0
(318) Roche Accu-Chek Inform II		5,62	0,33	5,9	80															
(320) Roche Accu-Chek Instant, Performa		5,69	0,27	4,7	70	0	CVPG	5,54	$0,021 \pm 0,833$	4,7	6,38									
(318) Roche Accu-Chek Inform II		4,92	0,19	3,9	10	0	CVPG	5,25	$0,056 \pm 0,833$	4,41	6,09									
(320) Roche Accu-Chek Instant, Performa		13,4	0,54	4	80							80	80	100						0
Sample B												80	80	100						
(318) Roche Accu-Chek Inform II		13,5	0,45	3,3	70	0	CVPG	12,9	0,048	15%	10,9	14,9								
(320) Roche Accu-Chek Instant, Performa		11,4	0,43	3,8	10	0	CVPG	12,3	0,13	15%	10,4	14,2								