

## EQA round: GLC2/17 - Glucose (including glucometers)

RoM = robust average	AV = assigned value	Dmax = acceptable percent difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	RV = reference value	UL = upper limit
Ntot = total number of participants	CVE = consensus value from experts	Neva = number of evaluated participants
Nout = number of results excluded before calculation	CVP = consensus value from all participants	Nsuc = number of successful participants
	CVPG = consensus value from participants groups	Srel = success (relative)
	U <sub>AV</sub> = expanded uncertainty of the assigned value (k = 2)	

Test	[unit]	Comparability						Traceability															
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	
<b>(140) Glucose (laboratory systems)</b>					194																194	186	96%
Samples and groups	[mmol/L]																						
<b>Sample A</b>		6,68	0,36	5,4	194										CRV	6,929	0,069	15%	5,88	7,97	194	188	97%
All results		6,68	0,36	5,4	194	0															194		
<b>Sample B</b>		14,4	0,76	5,3	194										CRV	14,85	0,15	15%	12,6	17,1	194	188	97%
All results		14,4	0,76	5,3	194	0															194		
<b>(141) Glucose (Abbott POCT)</b>					159							158	150	95%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		7,90	1,0	13	159							158	154	97%									0
(332) Abbott FreeStyle Lite, Freedom Lite		7,07	0,36	5,1	13	0	CVPG	7,07	0,25	15%	6	8,14	13										
(335) Abbott FreeStyle Optium		8,78	0,58	6,7	35	0	CVPG	8,78	0,24	15%	7,46	10,1	35										
(336) Abbott FreeStyle Optium Neo		7,22	0,37	5,1	76	0	CVPG	7,22	0,10	15%	6,13	8,31	76										
(337) Abbott Optium		9,60			1	0	CVPG	9,6		15%	8,16	11,1	0										
(338) Abbott Optium Xceed		8,76	0,47	5,4	34	0	CVPG	8,76	0,20	15%	7,44	10,1	34										
<b>Sample B</b>		17,0	2,1	12	159							158	154	97%									0
(332) Abbott FreeStyle Lite, Freedom Lite		15,1	0,61	4,0	13	0	CVPG	15,1	0,41	15%	12,8	17,4	13										
(335) Abbott FreeStyle Optium		18,8	1,5	8,0	35	0	CVPG	18,8	0,63	15%	15,9	21,7	35										
(336) Abbott FreeStyle Optium Neo		15,7	1,1	7,0	76	0	CVPG	15,7	0,31	15%	13,3	18,1	76										
(337) Abbott Optium		20,2			1	0	CVPG	20,2		15%	17,1	23,3	0										
(338) Abbott Optium Xceed		18,6	1,2	6,7	34	0	CVPG	18,6	0,52	15%	15,8	21,4	34										
<b>(142) Glucose (Arkray POCT)</b>					11							11	11	100%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		8,85	0,54	6,2	11		CVP	8,85	0,40	15%	7,52	10,2	11	11	100%								0
All results		8,85	0,54	6,2	11	0							11										
<b>Sample B</b>		22,4	0,97	4,3	11		CVP	22,4	0,72	15%	19	25,8	11	11	100%								0
All results		22,4	0,97	4,3	11	0							11										
<b>(143) Glucose (Bayer POCT)</b>					231							231	229	99%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		6,29	0,46	7,3	231								231	230	100%								0
(308) Bayer Contour TS		5,44	0,44	8,1	10	0	CVPG	5,44	0,34 ±0,83		4,61	6,27	10										
(326) Bayer Contour Plus		6,32	0,44	6,9	221	0	CVPG	6,32	0,072	15%	5,37	7,27	221										
<b>Sample B</b>		12,9	0,88	6,8	231								231	230	100%								0
(308) Bayer Contour TS		11,0	0,85	7,7	10	0	CVPG	11	0,66	15%	9,35	12,7	10										
(326) Bayer Contour Plus		12,9	0,83	6,4	221	0	CVPG	12,9	0,14	15%	10,9	14,9	221										
<b>(144) Glucose (HemoCue POCT)</b>					2																		0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		8,20	0,20	2,4	2																		0
All results		8,20	0,20	2,4	2	0	CVP	8,2	0,35	15%	6,97	9,43	0										
<b>Sample B</b>		15,6	0,20	1,3	2																		0

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Test	[unit]	Comparability										Traceability												
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>		
<b>(144) Glucose (HemoCue POCT)</b>	[mmol/L]				2								0									0		
Samples and groups																								
<b>Sample B</b>		15,6	0,20	1,3	2							0										0		
All results		15,6	0,20	1,3	2	0	CVP	15,6	0,35	15%	13,2	18	0											
<b>(145) Glucose (LifeScan POCT)</b>	[mmol/L]				58								58	57	98%								0	
Samples and groups																								
<b>Sample A</b>		8,99	1,9	21	58								58	57	98%								0	
(310) Lifescan OneTouch Ultra, Ultra Easy, Ultra Smart		10,8	0,76	7,0	17	0	CVPG	10,8	0,45	15%	9,18	12,5	17											
(313) Lifescan OneTouch VITa		10,3	0,22	2,1	12	0	CVPG	10,3	0,15	15%	8,75	11,9	12											
(322) Lifescan OneTouch Verio (Pro, Flex, IQ)		7,39	0,28	3,8	29	0	CVPG	7,39	0,13	15%	6,28	8,5	29											
<b>Sample B</b>		18,5	3,9	21	58								58	58	100%								0	
(310) Lifescan OneTouch Ultra, Ultra Easy, Ultra Smart		21,9	1,9	8,8	17	0	CVPG	21,9	1,2	15%	18,6	25,2	17											
(313) Lifescan OneTouch VITa		21,4	1,3	6,2	12	0	CVPG	21,4	0,94	15%	18,1	24,7	12											
(322) Lifescan OneTouch Verio (Pro, Flex, IQ)		15,2	0,52	3,4	29	0	CVPG	15,2	0,24	15%	12,9	17,5	29											
<b>(146) Glucose (Roche POCT)</b>	[mmol/L]				546								0									546	545	100%
Samples and groups																								
<b>Sample A</b>		6,80	0,23	3,3	546								0		CRV	6,929	0,069	15%	5,88	7,97		546	546	100%
All results		6,80	0,23	3,3	546	0																		546
<b>Sample B</b>		14,6	0,50	3,4	546								0		CRV	14,85	0,15	15%	12,6	17,1		546	545	100%
All results		14,6	0,50	3,4	546	0																		546
<b>(147) Glucose (Nova POCT)</b>	[mmol/L]				272								272	272	100%									0
Samples and groups																								
<b>Sample A</b>		6,55	0,25	3,8	272		CVP	6,55	0,037	15%	5,56	7,54	272	272	100%									0
All results		6,55	0,25	3,8	272	0							272											
<b>Sample B</b>		13,5	0,47	3,5	272		CVP	13,5	0,070	15%	11,4	15,6	272	272	100%									0
All results		13,5	0,47	3,5	272	0							272											
<b>(148) Glucose (Infopia POCT)</b>	[mmol/L]				11								11	10	91%									0
Samples and groups																								
<b>Sample A</b>		9,40	2,0	21	11								11	10	91%									0
(321) Infopia Element		10,6	1,2	11	6	0	CVPG	10,6	1,7	15%	9,01	12,2	6											
(327) Infopia GluNEO		7,90	0,30	3,8	5	0	CVPG	7,9	0,84	15%	6,71	9,09	5											
<b>Sample B</b>		17,7	3,1	17	11								11	11	100%									0
(321) Infopia Element		19,4	2,5	13	6	0	CVPG	19,4	3,5	15%	16,4	22,4	6											
(327) Infopia GluNEO		15,3	0,52	3,4	5	0	CVPG	15,3	1,5	15%	13	17,6	5											
<b>(149) Glucose (other POCT)</b>	[mmol/L]				35								0											0
Samples and groups																								
<b>Sample A</b>		9,86	1,8	18	35								0											0
All results		9,86	1,8	18	35	0	CVP	9,86	0,73	15%	8,38	11,4	0											
<b>Sample B</b>		19,1	1,9	10	35								0											0
All results		19,1	1,9	10	35	0	CVP	19,1	0,81	15%	16,2	22	0											
<b>(159) Glucose (MED TRUST POCT)</b>	[mmol/L]				64								64	58	91%									0
Samples and groups																								
<b>Sample A</b>		10,1	0,61	6,0	64		CVPG	10,1	0,19	15%	8,58	11,7	64	62	97%									0

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Test	[unit]						Comparability						Traceability									
		RoM	SD	CV [%]	N <sub>tot</sub>	N <sub>out</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>	AV	U <sub>AV</sub>	D <sub>max</sub>	LL	UL	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub>
<b>(159) Glucose (MED TRUST POCT)</b>	[mmol/L]				64							64	58	91%								0
Samples and groups																						
<b>Sample A</b>		10,1	0,61	6,0	64	CVPG	10,1	0,19	15%	8,58	11,7	64	62	97%								0
All results		10,1	0,61	6,0	64							64										
<b>Sample B</b>		17,2	1,4	8,4	64	CVPG	17,2	0,44	15%	14,6	19,8	64	58	91%								0
All results		17,2	1,4	8,4	64							64										

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End of report

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