

## EQA round: GLC1/18 - 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>					206							0									206	202	98%
Samples and groups	[mmol/L]																						
<b>Sample A</b>		4,20	0,21	5,0	206							0		CRV	4,28	0,043	15%	3,63	4,93	206	204	99%	
All results		4,20	0,21	5,0	206	0															206		
<b>Sample B</b>		9,64	0,45	4,6	206							0		CRV	9,638	0,096	15%	8,19	11,1	206	203	99%	
All results		9,64	0,45	4,6	206	0															206		
<b>(141) Glucose (Abbott POCT)</b>					142							131	125	95%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		4,41	0,54	12	142							131	126	96%									0
(332) Abbott FreeStyle Lite, Freedom Lite		4,21	0,16	3,9	10	0	CVPG	4,21	0,13	±0,83	3,38	5,04											0
(335) Abbott FreeStyle Optium		4,96	0,52	11	27	0	CVPG	4,96	0,25	±0,83	4,13	5,79											27
(336) Abbott FreeStyle Optium Neo		4,11	0,29	7,0	79	0	CVPG	4,11	0,080	±0,83	3,28	4,94											79
(337) Abbott Optium		5,00			1	0	CVPG	5		±0,83	4,17	5,83											0
(338) Abbott Optium Xceed		4,96	0,35	7,0	25	0	CVPG	4,96	0,17	±0,83	4,13	5,79											25
<b>Sample B</b>		11,2	1,4	13	142							141	137	97%									0
(332) Abbott FreeStyle Lite, Freedom Lite		10,3	0,45	4,4	10	0	CVPG	10,3	0,35	15%	8,75	11,9											10
(335) Abbott FreeStyle Optium		12,4	1,0	8,0	27	0	CVPG	12,4	0,47	15%	10,5	14,3											27
(336) Abbott FreeStyle Optium Neo		10,4	0,54	5,2	79	0	CVPG	10,4	0,15	15%	8,84	12											79
(337) Abbott Optium		13,2			1	0	CVPG	13,2		15%	11,2	15,2											0
(338) Abbott Optium Xceed		12,7	0,67	5,2	25	0	CVPG	12,7	0,33	15%	10,7	14,7											25
<b>(142) Glucose (Arkray POCT)</b>					12							12	12	100%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		4,99	0,18	3,5	12		CVP	4,99	0,12	±0,83	4,16	5,82											0
All results		4,99	0,18	3,5	12	0																	12
<b>Sample B</b>		14,1	0,49	3,5	12		CVP	14,1	0,35	15%	11,9	16,3											0
All results		14,1	0,49	3,5	12	0																	12
<b>(143) Glucose (Bayer POCT)</b>					237							230	228	99%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		4,02	0,19	4,8	237							230	230	100%									0
(308) Bayer Contour TS		3,45	0,22	6,4	7	0	CVPG	3,45	0,22	±0,83	2,62	4,28											0
(326) Bayer Contour Plus		4,03	0,19	4,6	230	0	CVPG	4,03	0,030	±0,83	3,2	4,86											230
<b>Sample B</b>		9,04	0,53	5,8	237							230	228	99%									0
(308) Bayer Contour TS		7,75	0,37	4,8	7	0	CVPG	7,75	0,36	15%	6,58	8,92											0
(326) Bayer Contour Plus		9,06	0,50	5,6	230	0	CVPG	9,06	0,082	15%	7,7	10,5											230
<b>(144) Glucose (HemoCue POCT)</b>					15							15	13	87%									0
Samples and groups	[mmol/L]																						
<b>Sample A</b>		6,09	0,23	3,8	15		CVP	6,09	0,15	15%	5,17	7,01											0
All results		6,09	0,23	3,8	15	0																	15
<b>Sample B</b>		12,5	0,73	5,8	15		CVP	12,5	0,46	15%	10,6	14,4											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]				15							15	13	87%									0
Samples and groups																							
<b>Sample B</b>		12,5	0,73	5,8	15	CVP	12,5	0,46	15%	10,6	14,4	15	15	100%									0
All results		12,5	0,73	5,8	15	0						15											
<b>(145) Glucose (LifeScan POCT)</b>	[mmol/L]				50							39	38	97%									0
Samples and groups																							
<b>Sample A</b>		4,80	0,49	10	50							39	38	97%									0
(310) Lifescan OneTouch Ultra, Ultra Easy, Ultra Smart		5,90	0,44	7,5	8	0 CVPG	5,9	0,34	15%	5,01	6,79	8											
(313) Lifescan OneTouch VITa		4,69	0,54	11	11	0 CVPG	4,69	0,40 ±0,83		3,86	5,52	0											
(322) Lifescan OneTouch Verio (Pro, Flex, IQ)		4,65	0,17	3,6	31	0 CVPG	4,65	0,074 ±0,83		3,82	5,48	31											
<b>Sample B</b>		11,0	1,3	12	50							50	47	94%									0
(310) Lifescan OneTouch Ultra, Ultra Easy, Ultra Smart		14,6	1,1	7,6	8	0 CVPG	14,6	0,85	15%	12,4	16,8	8											
(313) Lifescan OneTouch VITa		11,0	1,8	16	11	0 CVPG	11	1,3	15%	9,35	12,7	11											
(322) Lifescan OneTouch Verio (Pro, Flex, IQ)		10,4	0,44	4,2	31	0 CVPG	10,4	0,19	15%	8,84	12	31											
<b>(146) Glucose (Roche POCT)</b>	[mmol/L]				559							559	557	100%									0
Samples and groups																							
<b>Sample A</b>		4,36	0,17	3,9	559	CVP	4,36	0,018 ±0,83		3,53	5,19	559	557	100%									0
All results		4,36	0,17	3,9	559	0						559											
<b>Sample B</b>		10,1	0,35	3,5	559	CVP	10,1	0,037	15%	8,58	11,7	559	557	100%									0
All results		10,1	0,35	3,5	559	0						559											
<b>(147) Glucose (Nova POCT)</b>	[mmol/L]				275							275	275	100%									0
Samples and groups																							
<b>Sample A</b>		4,18	0,16	3,9	275	CVP	4,18	0,024 ±0,83		3,35	5,01	275	275	100%									0
All results		4,18	0,16	3,9	275	0						275											
<b>Sample B</b>		8,98	0,31	3,5	275	CVP	8,98	0,046	15%	7,63	10,4	275	275	100%									0
All results		8,98	0,31	3,5	275	0						275											
<b>(148) Glucose (Infopia POCT)</b>	[mmol/L]				21							15	14	93%									0
Samples and groups																							
<b>Sample A</b>		6,16	0,66	11	21							15	14	93%									0
(321) Infopia Element		6,85	1,4	21	6	0 CVPG	6,85	2,0	15%	5,82	7,88	0											
(327) Infopia GluNEO		5,94	0,38	6,4	15	0 CVPG	5,94	0,24	15%	5,04	6,84	15											
<b>Sample B</b>		15,7	0,45	2,9	21							21	20	95%									0
(321) Infopia Element		15,5	1,1	7,2	6	0 CVPG	15,5	1,6	15%	13,1	17,9	6											
(327) Infopia GluNEO		15,7	0,36	2,3	15	0 CVPG	15,7	0,23	15%	13,3	18,1	15											
<b>(149) Glucose (other POCT)</b>	[mmol/L]				40							5	5	100%									0
Samples and groups																							
<b>Sample A</b>		5,27	1,0	20	40							5	5	100%									0
(1) Fora Diamond Prima		4,75	0,07	1,6	5	0 CVPG	4,75	0,21 ±0,83		3,92	5,58	5											
All results (without individual groups)		5,33	1,1	21	35	0 CVPG	5,33	0,46 ±0,83		4,5	6,16	0											
<b>Sample B</b>		13,6	3,2	23	40							5	5	100%									0
(1) Fora Diamond Prima		12,9	0,37	2,9	5	0 CVPG	12,9	1,0	15%	10,9	14,9	5											
All results (without individual groups)		13,7	3,4	25	35	0 CVPG	13,7	1,4	15%	11,6	15,8	0											

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		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]				77							77	74	96%								0	
Samples and groups																							
<b>Sample A</b>		7,04	0,45	6,4	77	CVP	7,04	0,13	15%	5,98	8,1	77	75	97%								0	
All results		7,04	0,45	6,4	77							77											
<b>Sample B</b>		14,0	0,92	6,6	77	CVP	14	0,26	15%	11,9	16,1	77	74	96%								0	
All results		14,0	0,92	6,6	77							77											

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End of report

Printed: 08.05.2018