Summary statistics - quantitative results

EQA round: GLC1/23 - Glucose (including glucometers)

Deadline: 25.4.2023

Setup: all data

RoM = robust average	AV = assigned value	D_{max} = acceptable difference
SD = standard deviation	CRV = certified reference value	LL = lower limit
CV = coefficient of variation	CVPG = consensus of the participants' groups	UL = upper limit
N_{tot} = total number of the results	CVP = consensus of all participants	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 AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel} [%]	Traceability AV	U_{AV}	D_{max}	LL	UL	N_{eva}	N_{suc}	S_{rel} [%]
(140) **Glucose (laboratory systems)**	[mmol/L]				203							0								203	195	96
Sample A												0								203	196	97
All results		4,28	0,2	4,6	203	0									CRV 4,256	0,043	15%	3,61	4,9	203		
Sample B												0								203	199	98
All results		7,04	0,32	4,5	203	0									CRV 7,006	0,07	15%	5,95	8,06	203		
(771) **Glucose (Abbott POCT)**	[mmol/L]				145							132	126	95						0		
Sample A		4,21	0,37	8,7	145							132	129	98						0		
(332) Abbott FreeStyle Lite, Freedom Lite		4,26	0,17	4	10	0						0										
(335) Abbott FreeStyle Optium		5,05	0,37	7,3	6	0	CVPG	5,05	0,52	±0,833	4,21	5,89	6									
(336) Abbott FreeStyle Optium Neo		4,13	0,3	7,3	118	0	CVPG	4,13	0,068	±0,833	3,29	4,97	118									
(337) Abbott Optium		4,83	0,047	0,97	3	0						0										
(338) Abbott Optium Xceed		5,15	0,67	13	8	0	CVPG	5,15	0,51	±0,833	4,31	5,99	8									
Sample B		7,51	0,5	6,6	145							132	128	97						0		
(332) Abbott FreeStyle Lite, Freedom Lite		7,41	0,2	2,7	10	0						0										
(335) Abbott FreeStyle Optium		8,85	0,67	7,5	6	0	CVPG	8,85	0,93	15%	7,52	10,2	6									
(336) Abbott FreeStyle Optium Neo		7,42	0,42	5,7	118	0	CVPG	7,42	0,095	15%	6,3	8,54	118									
(337) Abbott Optium		8,03	0,58	7,2	3	0						0										
(338) Abbott Optium Xceed		9,1	1	11	8	0	CVPG	9,1	0,79	15%	7,73	10,5	8									
(772) **Glucose (ACON POCT)**	[mmol/L]				10							10	10	100						0		
Sample A												10	10	100						0		
All results		5,41	0,41	7,6	10	0	CVP	5,41	0,32	±0,833	4,57	6,25	10									
Sample B												10	10	100						0		
All results		9,87	0,39	3,9	10	0	CVP	9,87	0,3	15%	8,38	11,4	10									
(773) **Glucose (Arkray POCT)**	[mmol/L]				28							28	28	100						0		
Sample A												28	28	100						0		
All results		5,3	0,41	7,7	28	0	CVP	5,3	0,19	±0,833	4,46	6,14	28									
Sample B												28	28	100						0		
All results		9,75	0,62	6,4	28	0	CVP	9,75	0,29	15%	8,28	11,3	28									
(774) **Glucose (Ascensia POCT)**	[mmol/L]				186							186	180	97						0		
Sample A		3,79	0,16	4,3	186							186	185	99						0		
(307) Ascensia Contour Plus One		3,74	0,11	2,9	51	0	CVPG	3,74	0,038	±0,833	2,9	4,58	51									
(326) Ascensia Contour Plus		3,84	0,22	5,7	135	0	CVPG	3,84	0,046	±0,833	3	4,68	135									
Sample B		6,1	0,34	5,6	186							186	181	97						0		
(307) Ascensia Contour Plus One		6,04	0,17	2,8	51	0	CVPG	6,04	0,057	15%	5,13	6,95	51									
(326) Ascensia Contour Plus		6,18	0,49	7,9	135	0	CVPG	6,18	0,1	15%	5,25	7,11	135									
(775) **Glucose (ForaCare POCT)**	[mmol/L]				16							16	16	100						0		
Sample A												16	16	100						0		
All results		5,27	0,25	4,7	16	0	CVP	5,27	0,15	±0,833	4,43	6,11	16									

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Sample B													16	16	100							0		
All results		9,02	0,29	3,2	16	0	CVP	9,02	0,18	15%	7,66	10,4	16											
(776) **Glucose (HemoCue POCT)**	[mmol/L]				1								0									0		
Sample A													0									0		
All results		6,1			1	0							0											
Sample B													0									0		
All results		9,3			1	0							0											
(777) **Glucose (Infopia POCT)**	[mmol/L]				11								0									0		
Sample A		6,24	0,62	9,9	11								0									0		
(321) Infopia Element		5,8	2,2	38	4	0							0											
(327) Infopia GluNEO		6,15	0,074	1,2	7	0							0											
Sample B		11	0,78	7,1	11								0									0		
(321) Infopia Element		9,05	3,3	37	4	0							0											
(327) Infopia GluNEO		11,5	0,37	3,2	7	0							0											
(778) **Glucose (LifeScan POCT)**	[mmol/L]				35								35	34	97							0		
Sample A													35	34	97							0		
All results		4,76	0,29	6,1	35	0	CVP	4,76	0,12	±0,833	3,92	5,6	35											
Sample B													35	34	97							0		
All results		7,69	0,35	4,6	35	0	CVP	7,69	0,15	15%	6,53	8,85	35											
(779) **Glucose (MED TRUST POCT)**	[mmol/L]				79								79	78	99							0		
Sample A		5,82	1,6	27	79								79	79	100							0		
(301) MED TRUST Wellion CALLA Galileo		3,79	0,27	7,2	24	0	CVPG	3,79	0,14	±0,833	2,95	4,63	24											
(323) MED TRUST Wellion CALLA Light		6,7	0,43	6,4	55	0	CVPG	6,7	0,14	15%	5,69	7,71	55											
Sample B		8,97	1,8	20	79								79	78	99							0		
(301) MED TRUST Wellion CALLA Galileo		6,68	0,49	7,3	24	0	CVPG	6,68	0,25	15%	5,67	7,69	24											
(323) MED TRUST Wellion CALLA Light		9,94	0,69	6,9	55	0	CVPG	9,94	0,23	15%	8,44	11,5	55											
(780) **Glucose (Nova POCT)**	[mmol/L]				531								531	529	100							0		
Sample A													531	531	100							0		
All results		4,13	0,24	5,8	531	0	CVP	4,13	0,026	±0,833	3,29	4,97	531											
Sample B													531	529	100							0		
All results		6,65	0,3	4,5	531	0	CVP	6,65	0,032	15%	5,65	7,65	531											
(781) **Glucose (Roche POCT)**	[mmol/L]				704								700	699	100							0		
Sample A		4,36	0,2	4,6	704								700	699	100							0		
(316) Roche Accu-Chek Active, Go		5,2			1	0							0											
(318) Roche Accu-Chek Inform II		4,42	0,17	3,8	519	0	CVPG	4,42	0,018	±0,833	3,58	5,26	519											
(319) Roche Accu-Chek Inform		4,23	0,094	2,2	3	0							0											
(320) Roche Accu-Chek Instant, Performa		4,15	0,22	5,2	181	0	CVPG	4,15	0,039	±0,833	3,31	4,99	181											
Sample B		7,19	0,32	4,5	704								700	699	100							0		
(316) Roche Accu-Chek Active, Go		8,7			1	0							0											
(318) Roche Accu-Chek Inform II		7,29	0,24	3,4	519	0	CVPG	7,29	0,026	15%	6,19	8,39	519											
(319) Roche Accu-Chek Inform		7,1	0,33	4,6	3	0							0											
(320) Roche Accu-Chek Instant, Performa		6,82	0,36	5,3	181	0	CVPG	6,82	0,066	15%	5,79	7,85	181											

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(789) **Glucose (other POCT)**	[mmol/L]				46							0								0		
Sample A												0								0		
All results		4,61	0,9	19	46	0						0										
Sample B												0								0		
All results		8,24	2,1	26	46	0						0										