

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - measuring system

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

CVP = consensus of all participants

N_{rel} = relative number of the resultsN_{suc} = number of successful results

CVPG = consensus of the participants' groups

S_{rel} = relative success

>>> ... expected result

> ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(268) Bilirubin		298			276	273	99	
Sample A		298			298	296	99	
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	18	6	Negative				
(204) Siemens Clinitek Novus	CVP >>>	32	11	Negative				
		1	0,3	3+, 4+				
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative				
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative				
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative				
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative				
(216) Sysmex UC-1000, UC-3500	CVP >>>	14	4,7	Negative				
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative				
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative				
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative				
(222) Roche Urisys 1100	CVP >>>	3	1	Negative				
(223) Iris iChem Velocity	CVP >>>	22	7,4	Negative				
(225) Dirui H-series	CVP >>>	10	3,4	Negative				
(228) Siemens Clinitek Advantus	CVP >>>	12	4	Negative				
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative				
(230) Dirui FUS-series	CVP >>>	52	17	Negative				
(998) Manual		1	0,3	Not specified				
	CVP >>>	28	9,4	Negative				
(999) another system	CVP >>>	12	4	Negative				
Sample B		298			276	274	99	
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	3+, 4+				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	18	6	3+, 4+				
(204) Siemens Clinitek Novus		1	0,3	Negative				
	CVP >>>	32	11	3+, 4+				
(205) Roche cobas u 601 (cobas 6500)		>	1	0,3	1+, 2+			
	CVP >>>	7	2,3	3+, 4+				
(208) Siemens Clinitek Status	CVP >>>	5	1,7	3+, 4+				
(209) 77 Elektronika LabUreader		>	1	0,3	1+, 2+			
	CVP >>>	10	3,4	3+, 4+				
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	3+, 4+				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	3+, 4+				
(216) Sysmex UC-1000, UC-3500	CVP >>>	14	4,7	3+, 4+				
(218) YD Diagnostics URISCAN Pro+		>	1	0,3	1+, 2+			
(220) 77 Elektronika HandUReader		>	1	0,3	1+, 2+			
(221) Erba Lachema LAURA	CVP >>>	12	4	3+, 4+				
(222) Roche Urisys 1100	CVP >>>	3	1	3+, 4+				
(223) Iris iChem Velocity		±	10	3,4	Negative			
		±	8	2,7	1+, 2+			
		±	4	1,3	3+, 4+			
(225) Dirui H-series	CVP >>>	10	3,4	3+, 4+				
(228) Siemens Clinitek Advantus		>	2	0,7	1+, 2+			
	CVP >>>	10	3,4	3+, 4+				
(229) 77 Elektronika LabUMat, LabUMat 2		>	2	0,7	1+, 2+			
	CVP >>>	27	9,1	3+, 4+				
(230) Dirui FUS-series		1	0,3	Not specified				
	CVP >>>	51	17	3+, 4+				
(998) Manual	CVP >>>	29	9,7	3+, 4+				
(999) another system		>	1	0,3	1+, 2+			
	CVP >>>	11	3,7	3+, 4+				
(264) Total protein		300			300	289	96	
Sample A		300			300	299	100	
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative, < 0,3 g/L				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	20	6,7	Negative, < 0,3 g/L				
(204) Siemens Clinitek Novus	CVP >>>	31	10	Negative, < 0,3 g/L				
		1	0,3	> 2,5 g/L				
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative, < 0,3 g/L				
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative, < 0,3 g/L				
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative, < 0,3 g/L				

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Test Sample Group	AV	N _{tot}	Frequency of the results		Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative, < 0,3 g/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative, < 0,3 g/L			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5	Negative, < 0,3 g/L			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative, < 0,3 g/L			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative, < 0,3 g/L			
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative, < 0,3 g/L			
(222) Roche Urisys 1100	CVP >>>	3	1	Negative, < 0,3 g/L			
(223) Iris iChem Velocity	CVP >>>	21	7	Negative, < 0,3 g/L			
(225) Dirui H-series	CVP >>>	9	3	Negative, < 0,3 g/L			
(228) Siemens Clinitek Advantus	CVP >>>	12	4	Negative, < 0,3 g/L			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative, < 0,3 g/L			
(230) Dirui FUS-series	CVP >>>	53	18	Negative, < 0,3 g/L			
(998) Manual	CVP >>>	30	10	Negative, < 0,3 g/L			
(999) another system	CVP >>>	12	4	Negative, < 0,3 g/L			
Sample B		300			300	289	96
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	> 2,5 g/L			
(202) Arkray Aution MAX / Sysmex UX-2000		1	0,3	0,3 - 0,5 g/L			
	>	1	0,3	0,51 - 2,5 g/L			
	CVP >>>	18	6	> 2,5 g/L			
(204) Siemens Clinitek Novus		1	0,3	Negative, < 0,3 g/L			
	>	2	0,7	0,51 - 2,5 g/L			
	CVP >>>	29	9,7	> 2,5 g/L			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	> 2,5 g/L			
(208) Siemens Clinitek Status		1	0,3	0,51 - 2,5 g/L			
	CVP >>>	4	1,3	> 2,5 g/L			
(209) 77 Elektronika LabUreader		1	0,3	Negative, < 0,3 g/L			
	>	5	1,7	0,51 - 2,5 g/L			
	CVP >>>	5	1,7	> 2,5 g/L			
(210) Erba Lachema UriPHAN		2	0,7	0,51 - 2,5 g/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	> 2,5 g/L			
(216) Sysmex UC-1000, UC-3500		6	2	0,51 - 2,5 g/L			
	CVP >>>	9	3	> 2,5 g/L			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	> 2,5 g/L			
(220) 77 Elektronika HandUReader		1	0,3	0,51 - 2,5 g/L			
(221) Erba Lachema LAURA		7	2,3	0,51 - 2,5 g/L			
	CVP >>>	5	1,7	> 2,5 g/L			
(222) Roche Urisys 1100	CVP >>>	3	1	> 2,5 g/L			
(223) Iris iChem Velocity		1	0,3	0,3 - 0,5 g/L			
	>	14	4,7	0,51 - 2,5 g/L			
	CVP >>>	6	2	> 2,5 g/L			
(225) Dirui H-series		4	1,3	0,51 - 2,5 g/L			
	CVP >>>	5	1,7	> 2,5 g/L			
(228) Siemens Clinitek Advantus	CVP >>>	12	4	> 2,5 g/L			
(229) 77 Elektronika LabUMat, LabUMat 2		3	1	0,3 - 0,5 g/L			
	>	22	7,3	0,51 - 2,5 g/L			
	CVP >>>	4	1,3	> 2,5 g/L			
(230) Dirui FUS-series		1	0,3	0,3 - 0,5 g/L			
	>	28	9,3	0,51 - 2,5 g/L			
	CVP >>>	24	8	> 2,5 g/L			
(998) Manual		2	0,7	0,3 - 0,5 g/L			
	>	11	3,7	0,51 - 2,5 g/L			
	CVP >>>	17	5,7	> 2,5 g/L			
(999) another system		1	0,3	0,3 - 0,5 g/L			
	>	2	0,7	0,51 - 2,5 g/L			
	CVP >>>	9	3	> 2,5 g/L			
(261) Glucose		300			300	293	98
Sample A		300			300	299	100
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative, normal, <= 2,8 mmol/L			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	6,3	Negative, normal, <= 2,8 mmol/L			
(204) Siemens Clinitek Novus	CVP >>>	32	11	Negative, normal, <= 2,8 mmol/L			
		1	0,3	11,1 - 28 mmol/L			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative, normal, <= 2,8 mmol/L			
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative, normal, <= 2,8 mmol/L			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative, normal, <= 2,8 mmol/L			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative, normal, <= 2,8 mmol/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative, normal, <= 2,8 mmol/L			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5	Negative, normal, <= 2,8 mmol/L			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			

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					N _{eva}	N _{suc}	S _{rel} [%]
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative, normal, <= 2,8 mmol/L			
(222) Roche Urisys 1100	CVP >>>	3	1	Negative, normal, <= 2,8 mmol/L			
(223) Iris iChem Velocity	CVP >>>	21	7	Negative, normal, <= 2,8 mmol/L			
(225) Dirui H-series	CVP >>>	9	3	Negative, normal, <= 2,8 mmol/L			
(228) Siemens Clinitek Advantus	CVP >>>	12	4	Negative, normal, <= 2,8 mmol/L			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative, normal, <= 2,8 mmol/L			
(230) Dirui FUS-series	CVP >>>	53	18	Negative, normal, <= 2,8 mmol/L			
(998) Manual	CVP >>>	30	10	Negative, normal, <= 2,8 mmol/L			
(999) another system	CVP >>>	12	4	Negative, normal, <= 2,8 mmol/L			
Sample B		300			300	293	98
(201) Arkray Aution JET / Eleven	>	4	1,3	11,1 - 28 mmol/L			
	CVP >>>	5	1,7	> 28 mmol/L			
(202) Arkray Aution MAX / Sysmex UX-2000	>	6	2	11,1 - 28 mmol/L			
	CVP >>>	13	4,3	> 28 mmol/L			
(204) Siemens Clinitek Novus	>	1	0,3	Negative, normal, <= 2,8 mmol/L			
	>	17	5,7	11,1 - 28 mmol/L			
	CVP >>>	15	5	> 28 mmol/L			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	> 28 mmol/L			
(208) Siemens Clinitek Status	>	1	0,3	2,81 - 11 mmol/L			
	>	2	0,7	11,1 - 28 mmol/L			
	CVP >>>	2	0,7	> 28 mmol/L			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	> 28 mmol/L			
(210) Erba Lachema UriPHAN	>	1	0,3	11,1 - 28 mmol/L			
	CVP >>>	1	0,3	> 28 mmol/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	> 28 mmol/L			
(216) Sysmex UC-1000, UC-3500	>	7	2,3	11,1 - 28 mmol/L			
	CVP >>>	8	2,7	> 28 mmol/L			
(218) YD Diagnostics URISCAN Pro+	>	1	0,3	11,1 - 28 mmol/L			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	> 28 mmol/L			
(221) Erba Lachema LAURA	>	8	2,7	11,1 - 28 mmol/L			
	CVP >>>	4	1,3	> 28 mmol/L			
(222) Roche Urisys 1100	CVP >>>	3	1	> 28 mmol/L			
(223) Iris iChem Velocity	>	1	0,3	2,81 - 11 mmol/L			
	>	8	2,7	11,1 - 28 mmol/L			
	CVP >>>	12	4	> 28 mmol/L			
(225) Dirui H-series	>	4	1,3	11,1 - 28 mmol/L			
	CVP >>>	5	1,7	> 28 mmol/L			
(228) Siemens Clinitek Advantus	>	1	0,3	2,81 - 11 mmol/L			
	>	5	1,7	11,1 - 28 mmol/L			
	CVP >>>	6	2	> 28 mmol/L			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	> 28 mmol/L			
(230) Dirui FUS-series	>	12	4	11,1 - 28 mmol/L			
	CVP >>>	41	14	> 28 mmol/L			
(998) Manual	>	2	0,7	2,81 - 11 mmol/L			
	>	5	1,7	11,1 - 28 mmol/L			
	CVP >>>	23	7,7	> 28 mmol/L			
(999) another system	>	1	0,3	2,81 - 11 mmol/L			
	>	2	0,7	11,1 - 28 mmol/L			
	CVP >>>	9	3	> 28 mmol/L			
(275) hCG		13			13	13	100
Sample A		13			13	13	100
(208) Siemens Clinitek Status	CVP >>>	1	7,7	Negative			
(998) Manual	CVP >>>	12	92	Negative			
Sample B		13			13	13	100
(208) Siemens Clinitek Status	CVP >>>	1	7,7	Positive			
(998) Manual	CVP >>>	12	92	Positive			
(263) Ketone bodies		299			299	295	99
Sample A		299			299	298	100
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative, <= 0,5 mmol/L			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	6,4	Negative, <= 0,5 mmol/L			
(204) Siemens Clinitek Novus	CVP >>>	32	11	Negative, <= 0,5 mmol/L			
		1	0,3	1+, 2+			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative, <= 0,5 mmol/L			
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative, <= 0,5 mmol/L			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative, <= 0,5 mmol/L			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative, <= 0,5 mmol/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative, <= 0,5 mmol/L			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5	Negative, <= 0,5 mmol/L			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L			

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Test Sample Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results Result	Success		
					N _{eva}	N _{suc}	S _{rel} [%]
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L			
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative, <= 0,5 mmol/L			
(222) Roche Urisys 1100	CVP >>>	3	1	Negative, <= 0,5 mmol/L			
(223) Iris iChem Velocity	CVP >>>	21	7	Negative, <= 0,5 mmol/L			
(225) Dirui H-series	CVP >>>	10	3,3	Negative, <= 0,5 mmol/L			
(228) Siemens Clinitek Advantus	CVP >>>	11	3,7	Negative, <= 0,5 mmol/L			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative, <= 0,5 mmol/L			
(230) Dirui FUS-series	CVP >>>	52	17	Negative, <= 0,5 mmol/L			
(998) Manual	CVP >>>	30	10	Negative, <= 0,5 mmol/L			
(999) another system	CVP >>>	12	4	Negative, <= 0,5 mmol/L			
Sample B		299			299	295	99
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	3+, 4+			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	6,4	3+, 4+			
(204) Siemens Clinitek Novus		2	0,7	Negative, <= 0,5 mmol/L			
	>	28	9,4	1+, 2+			
	CVP >>>	3	1	3+, 4+			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	3+, 4+			
(208) Siemens Clinitek Status		2	0,7	1+, 2+			
	CVP >>>	3	1	3+, 4+			
(209) 77 Elektronika LabUreader		9	3	1+, 2+			
	CVP >>>	2	0,7	3+, 4+			
(210) Erba Lachema UriPHAN		2	0,7	1+, 2+			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	3+, 4+			
(216) Sysmex UC-1000, UC-3500		12	4	1+, 2+			
	CVP >>>	3	1	3+, 4+			
(218) YD Diagnostics URISCAN Pro+		1	0,3	1+, 2+			
(220) 77 Elektronika HandUReader		1	0,3	1+, 2+			
(221) Erba Lachema LAURA		11	3,7	1+, 2+			
	CVP >>>	1	0,3	3+, 4+			
(222) Roche Urisys 1100	CVP >>>	3	1	3+, 4+			
(223) Iris iChem Velocity		3	1	1+, 2+			
	CVP >>>	18	6	3+, 4+			
(225) Dirui H-series		7	2,3	1+, 2+			
	CVP >>>	3	1	3+, 4+			
(228) Siemens Clinitek Advantus		1	0,3	Not specified			
	>	6	2	1+, 2+			
	CVP >>>	4	1,3	3+, 4+			
(229) 77 Elektronika LabUMat, LabUMat 2		25	8,4	1+, 2+			
	CVP >>>	4	1,3	3+, 4+			
(230) Dirui FUS-series		9	3	1+, 2+			
	CVP >>>	43	14	3+, 4+			
(998) Manual		1	0,3	Negative, <= 0,5 mmol/L			
	>	18	6	1+, 2+			
	CVP >>>	11	3,7	3+, 4+			
(999) another system		8	2,7	1+, 2+			
	CVP >>>	4	1,3	3+, 4+			
(272) Blood		300			300	294	98
Sample A		300			300	297	99
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	6,3	Negative			
(204) Siemens Clinitek Novus	CVP >>>	32	11	Negative			
		1	0,3	> 50 ery/ μ L			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative			
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative			
(210) Erba Lachema UriPHAN	CVP >>>	3	1	Negative			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5	Negative			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative			
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative			
(222) Roche Urisys 1100	CVP >>>	3	1	Negative			
(223) Iris iChem Velocity	CVP >>>	20	6,7	Negative			
(225) Dirui H-series	CVP >>>	9	3	Negative			
(228) Siemens Clinitek Advantus	CVP >>>	12	4	Negative			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative			
(230) Dirui FUS-series	CVP >>>	52	17	Negative			
		1	0,3	13 - 50 ery/ μ L			
(998) Manual	CVP >>>	29	9,7	Negative			

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Test Sample Group	AV	N _{tot}	Frequency of the results		Success			
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(999) another system	CVP >>>	12	1	0,3	5 - 12 ery/ μ L			
Sample B		300			Negative			
(201) Arkray Aution JET / Eleven	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	8	2,7	> 50 ery/ μ L				
(202) Arkray Aution MAX / Sysmex UX-2000	>	6	2	13 - 50 ery/ μ L				
	CVP >>>	13	4,3	> 50 ery/ μ L				
(204) Siemens Clinitek Novus		1	0,3	Negative				
	>	5	1,7	13 - 50 ery/ μ L				
	CVP >>>	27	9	> 50 ery/ μ L				
(205) Roche cobas u 601 (cobas 6500)	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	7	2,3	> 50 ery/ μ L				
(208) Siemens Clinitek Status	CVP >>>	5	1,7	> 50 ery/ μ L				
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	> 50 ery/ μ L				
(210) Erba Lachema UriPHAN	>	2	0,7	13 - 50 ery/ μ L				
	CVP >>>	1	0,3	> 50 ery/ μ L				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	> 50 ery/ μ L				
(216) Sysmex UC-1000, UC-3500	>	8	2,7	13 - 50 ery/ μ L				
	CVP >>>	7	2,3	> 50 ery/ μ L				
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	> 50 ery/ μ L				
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	> 50 ery/ μ L				
(221) Erba Lachema LAURA	>	2	0,7	13 - 50 ery/ μ L				
	CVP >>>	10	3,3	> 50 ery/ μ L				
(222) Roche Urisys 1100	CVP >>>	3	1	> 50 ery/ μ L				
(223) Iris iChem Velocity		2	0,7	5 - 12 ery/ μ L				
	>	12	4	13 - 50 ery/ μ L				
	CVP >>>	6	2	> 50 ery/ μ L				
(225) Dirui H-series	>	2	0,7	13 - 50 ery/ μ L				
	CVP >>>	7	2,3	> 50 ery/ μ L				
(228) Siemens Clinitek Advantus	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	11	3,7	> 50 ery/ μ L				
(229) 77 Elektronika LabUMat, LabUMat 2	>	5	1,7	13 - 50 ery/ μ L				
	CVP >>>	24	8	> 50 ery/ μ L				
(230) Dirui FUS-series		1	0,3	5 - 12 ery/ μ L				
	>	2	0,7	13 - 50 ery/ μ L				
	CVP >>>	50	17	> 50 ery/ μ L				
(998) Manual	>	7	2,3	13 - 50 ery/ μ L				
	CVP >>>	23	7,7	> 50 ery/ μ L				
(999) another system	>	2	0,7	13 - 50 ery/ μ L				
	CVP >>>	10	3,3	> 50 ery/ μ L				
(270) WBC		265				265	253	95
Sample A		265				265	263	99
(201) Arkray Aution JET / Eleven	CVP >>>	9	3,4	Negative				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	18	6,8	Negative				
(204) Siemens Clinitek Novus	CVP >>>	30	11	Negative				
		1	0,4	> 250 leu/ μ L				
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	7	2,6	Negative				
(208) Siemens Clinitek Status	CVP >>>	5	1,9	Negative				
(209) 77 Elektronika LabUreader	CVP >>>	10	3,8	Negative				
(210) Erba Lachema UriPHAN	CVP >>>	2	0,8	Negative				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5,7	Negative				
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5,7	Negative				
(220) 77 Elektronika HandUReader	CVP >>>	1	0,4	Negative				
(221) Erba Lachema LAURA	CVP >>>	9	3,4	Negative				
(222) Roche Urisys 1100	CVP >>>	3	1,1	Negative				
(223) Iris iChem Velocity	CVP >>>	20	7,5	Negative				
(225) Dirui H-series	CVP >>>	9	3,4	Negative				
(228) Siemens Clinitek Advantus	CVP >>>	13	4,9	Negative				
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	28	11	Negative				
		1	0,4	10 - 50 leu/ μ L				
(230) Dirui FUS-series	CVP >>>	53	20	Negative				
(998) Manual	CVP >>>	5	1,9	Negative				
(999) another system	CVP >>>	11	4,2	Negative				
Sample B		265				265	254	96
(201) Arkray Aution JET / Eleven	CVP >>>	9	3,4	> 250 leu/ μ L				
(202) Arkray Aution MAX / Sysmex UX-2000	>	1	0,4	51 - 250 leu/ μ L				
	CVP >>>	17	6,4	> 250 leu/ μ L				
(204) Siemens Clinitek Novus		1	0,4	Negative				
		2	0,8	10 - 50 leu/ μ L				

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - measuring system

Test Sample Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results Result	Success		
					N _{eva}	N _{suc}	S _{rel} [%]
	>	3	1,1	51 - 250 leu/μL			
	CVP >>>	25	9,4	> 250 leu/μL			
(205) Roche cobas u 601 (cobas 6500)	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	6	2,3	> 250 leu/μL			
(208) Siemens Clinitek Status	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	4	1,5	> 250 leu/μL			
(209) 77 Elektronika LabUreader	>	2	0,8	51 - 250 leu/μL			
	CVP >>>	8	3	> 250 leu/μL			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,8	> 250 leu/μL			
(215) Roche Urисys 1800 / cobas u411	>	2	0,8	51 - 250 leu/μL			
	CVP >>>	13	4,9	> 250 leu/μL			
(216) Sysmex UC-1000, UC-3500		4	1,5	10 - 50 leu/μL			
	>	6	2,3	51 - 250 leu/μL			
	CVP >>>	5	1,9	> 250 leu/μL			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,4	> 250 leu/μL			
(221) Erba Lachema LAURA	CVP >>>	9	3,4	> 250 leu/μL			
(222) Roche Urисys 1100	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	2	0,8	> 250 leu/μL			
(223) Iris iChem Velocity		3	1,1	10 - 50 leu/μL			
	>	12	4,5	51 - 250 leu/μL			
	CVP >>>	5	1,9	> 250 leu/μL			
(225) Dirui H-series		1	0,4	10 - 50 leu/μL			
	>	7	2,6	51 - 250 leu/μL			
	CVP >>>	1	0,4	> 250 leu/μL			
(228) Siemens Clinitek Advantus	>	8	3	51 - 250 leu/μL			
	CVP >>>	5	1,9	> 250 leu/μL			
(229) 77 Elektronika LabUMat, LabUMat 2	>	5	1,9	51 - 250 leu/μL			
	CVP >>>	24	9,1	> 250 leu/μL			
(230) Dirui FUS-series	>	19	7,2	51 - 250 leu/μL			
	CVP >>>	34	13	> 250 leu/μL			
(998) Manual	>	2	0,8	51 - 250 leu/μL			
	CVP >>>	3	1,1	> 250 leu/μL			
(999) another system	>	3	1,1	51 - 250 leu/μL			
	CVP >>>	8	3	> 250 leu/μL			
(274) Nitrite		270			270	266	99
Sample A		270			270	269	100
(201) Arkray Aution JET / Eleven	CVP >>>	9	3,3	Negative			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	7	Negative			
(204) Siemens Clinitek Novus	CVP >>>	31	11	Negative			
		1	0,4	Positive			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	3	Negative			
(208) Siemens Clinitek Status	CVP >>>	5	1,9	Negative			
(209) 77 Elektronika LabUreader	CVP >>>	11	4,1	Negative			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative			
(215) Roche Urисys 1800 / cobas u411	CVP >>>	15	5,6	Negative			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5,6	Negative			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,4	Negative			
(221) Erba Lachema LAURA	CVP >>>	9	3,3	Negative			
(222) Roche Urисys 1100	CVP >>>	2	0,7	Negative			
(223) Iris iChem Velocity	CVP >>>	21	7,8	Negative			
(225) Dirui H-series	CVP >>>	9	3,3	Negative			
(228) Siemens Clinitek Advantus	CVP >>>	12	4,4	Negative			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	28	10	Negative			
(230) Dirui FUS-series	CVP >>>	53	20	Negative			
(998) Manual	CVP >>>	7	2,6	Negative			
(999) another system	CVP >>>	12	4,4	Negative			
Sample B		270			270	266	99
(201) Arkray Aution JET / Eleven		1	0,4	Negative			
	CVP >>>	8	3	Positive			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	7	Positive			
(204) Siemens Clinitek Novus		1	0,4	Negative			
	CVP >>>	31	11	Positive			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	3	Positive			
(208) Siemens Clinitek Status	CVP >>>	5	1,9	Positive			
(209) 77 Elektronika LabUreader	CVP >>>	11	4,1	Positive			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Positive			
(215) Roche Urисys 1800 / cobas u411	CVP >>>	15	5,6	Positive			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5,6	Positive			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,4	Positive			

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - measuring system

Test Sample Group	AV	N _{tot}	Frequency of the results			Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(221) Erba Lachema LAURA	CVP >>>	9	3,3	Positive				
(222) Roche Urisys 1100	CVP >>>	2	0,7	Positive				
(223) Iris iChem Velocity	CVP >>>	21	7,8	Positive				
(225) Dirui H-series		1	0,4	Negative				
	CVP >>>	8	3	Positive				
(228) Siemens Clinitek Advantus	CVP >>>	12	4,4	Positive				
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	28	10	Positive				
(230) Dirui FUS-series	CVP >>>	53	20	Positive				
(998) Manual	CVP >>>	7	2,6	Positive				
(999) another system		1	0,4	Negative				
	CVP >>>	11	4,1	Positive				
(273) pH		300			300	296	99	
Sample A		300			300	297	99	
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	5,0				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	17	5,7	5,0				
	>	2	0,7	5,5				
(204) Siemens Clinitek Novus	CVP >>>	7	2,3	5,0				
	>	24	8	5,5				
		1	0,3	7,0				
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	5,0				
(208) Siemens Clinitek Status	CVP >>>	3	1	5,0				
	>	2	0,7	5,5				
(209) 77 Elektronika LabUreader	CVP >>>	10	3,3	5,0				
	>	1	0,3	5,5				
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	5,0				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	5,0				
(216) Sysmex UC-1000, UC-3500	CVP >>>	14	4,7	5,0				
	>	1	0,3	5,5				
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	5,0				
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	5,0				
(221) Erba Lachema LAURA	CVP >>>	11	3,7	5,0				
		1	0,3	6,5				
(222) Roche Urisys 1100	CVP >>>	3	1	5,0				
(223) Iris iChem Velocity	CVP >>>	2	0,7	5,0				
	>	9	3	5,5				
	>	9	3	6,0				
		1	0,3	6,5				
(225) Dirui H-series	CVP >>>	8	2,7	5,0				
	>	1	0,3	5,5				
(228) Siemens Clinitek Advantus	CVP >>>	1	0,3	5,0				
	>	6	2	5,5				
	>	5	1,7	6,0				
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	24	8	5,0				
	>	5	1,7	5,5				
(230) Dirui FUS-series	CVP >>>	3	1	5,0				
	>	34	11	5,5				
	>	17	5,7	6,0				
(998) Manual	CVP >>>	25	8,3	5,0				
	>	4	1,3	5,5				
	>	1	0,3	6,0				
(999) another system	CVP >>>	7	2,3	5,0				
	>	1	0,3	5,5				
	>	4	1,3	6,0				
Sample B		300			300	298	99	
(201) Arkray Aution JET / Eleven	>	7	2,3	7,5				
	>	2	0,7	8,0				
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	3	1	7,0				
	>	16	5,3	7,5				
(204) Siemens Clinitek Novus		1	0,3	5,5				
	CVP >>>	30	10	7,0				
	>	1	0,3	7,5				
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	7,0				
(208) Siemens Clinitek Status	CVP >>>	5	1,7	7,0				
(209) 77 Elektronika LabUreader	>	2	0,7	6,0				
	>	9	3	6,5				
(210) Erba Lachema UriPHAN	CVP >>>	1	0,3	7,0				
	>	1	0,3	8,0				
(215) Roche Urisys 1800 / cobas u411	CVP >>>	14	4,7	7,0				
	>	1	0,3	8,0				

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - measuring system

Test Sample Group	AV	N _{tot}	N _{rel} [%]	Result	Success		
					N _{eva}	N _{suc}	S _{rel} [%]
(216) Sysmex UC-1000, UC-3500	CVP >>>	2	0,7	7,0			
	>	13	4,3	7,5			
(218) YD Diagnostics URISCAN Pro+	>	1	0,3	6,5			
(220) 77 Elektronika HandUReader	>	1	0,3	6,5			
(221) Erba Lachema LAURA	CVP >>>	8	2,7	7,0			
	>	1	0,3	7,5			
	>	3	1	8,0			
(222) Roche Urisys 1100	CVP >>>	3	1	7,0			
(223) Iris iChem Velocity	>	4	1,3	6,5			
	CVP >>>	16	5,3	7,0			
	>	1	0,3	7,5			
(225) Dirui H-series	>	1	0,3	6,0			
	>	7	2,3	6,5			
	CVP >>>	1	0,3	7,0			
(228) Siemens Clinitek Advantus	>	12	4	7,5			
(229) 77 Elektronika LabUMat, LabUMat 2	>	29	9,7	6,5			
(230) Dirui FUS-series	>	1	0,3	6,5			
	CVP >>>	41	14	7,0			
	>	12	4	7,5			
(998) Manual		1	0,3	5,0			
	>	1	0,3	6,0			
	>	4	1,3	6,5			
	CVP >>>	22	7,3	7,0			
	>	2	0,7	7,5			
(999) another system	>	3	1	6,5			
	CVP >>>	6	2	7,0			
	>	3	1	7,5			
(266) Urobilinogen		300			300	298	99
Sample A		300			300	299	100
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	Negative, < 17 µmol/L			
(202) Arkray Aution MAX / Sysmex UX-2000	CVP >>>	19	6,3	Negative, < 17 µmol/L			
(204) Siemens Clinitek Novus	CVP >>>	32	11	Negative, < 17 µmol/L			
		1	0,3	1+, 2+			
(205) Roche cobas u 601 (cobas 6500)	CVP >>>	8	2,7	Negative, < 17 µmol/L			
(208) Siemens Clinitek Status	CVP >>>	5	1,7	Negative, < 17 µmol/L			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	Negative, < 17 µmol/L			
(210) Erba Lachema UriPHAN	CVP >>>	2	0,7	Negative, < 17 µmol/L			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	Negative, < 17 µmol/L			
(216) Sysmex UC-1000, UC-3500	CVP >>>	15	5	Negative, < 17 µmol/L			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	Negative, < 17 µmol/L			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	Negative, < 17 µmol/L			
(221) Erba Lachema LAURA	CVP >>>	12	4	Negative, < 17 µmol/L			
(222) Roche Urisys 1100	CVP >>>	3	1	Negative, < 17 µmol/L			
(223) Iris iChem Velocity	CVP >>>	21	7	Negative, < 17 µmol/L			
(225) Dirui H-series	CVP >>>	9	3	Negative, < 17 µmol/L			
(228) Siemens Clinitek Advantus	CVP >>>	12	4	Negative, < 17 µmol/L			
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	Negative, < 17 µmol/L			
(230) Dirui FUS-series	CVP >>>	53	18	Negative, < 17 µmol/L			
(998) Manual	CVP >>>	30	10	Negative, < 17 µmol/L			
(999) another system	CVP >>>	12	4	Negative, < 17 µmol/L			
Sample B		300			300	298	99
(201) Arkray Aution JET / Eleven	CVP >>>	9	3	3+, 4+			
(202) Arkray Aution MAX / Sysmex UX-2000	>	1	0,3	1+, 2+			
	CVP >>>	18	6	3+, 4+			
(204) Siemens Clinitek Novus		1	0,3	Negative, < 17 µmol/L			
	>	26	8,7	1+, 2+			
	CVP >>>	6	2	3+, 4+			
(205) Roche cobas u 601 (cobas 6500)	>	1	0,3	1+, 2+			
	CVP >>>	7	2,3	3+, 4+			
(208) Siemens Clinitek Status	CVP >>>	5	1,7	3+, 4+			
(209) 77 Elektronika LabUreader	CVP >>>	11	3,7	3+, 4+			
(210) Erba Lachema UriPHAN	>	1	0,3	1+, 2+			
	CVP >>>	1	0,3	3+, 4+			
(215) Roche Urisys 1800 / cobas u411	CVP >>>	15	5	3+, 4+			
(216) Sysmex UC-1000, UC-3500	>	9	3	1+, 2+			
	CVP >>>	6	2	3+, 4+			
(218) YD Diagnostics URISCAN Pro+	CVP >>>	1	0,3	3+, 4+			
(220) 77 Elektronika HandUReader	CVP >>>	1	0,3	3+, 4+			
(221) Erba Lachema LAURA	>	9	3	1+, 2+			

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - measuring system

Test Sample Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results		Success		
				Result		N _{eva}	N _{suc}	S _{rel} [%]
	CVP >>>	3	1	3+, 4+				
(222) Roche Urisys 1100	CVP >>>	3	1	3+, 4+				
(223) Iris iChem Velocity		1	0,3	Negative, < 17 µmol/L				
	>	12	4	1+, 2+				
	CVP >>>	8	2,7	3+, 4+				
(225) Dirui H-series	CVP >>>	9	3	3+, 4+				
(228) Siemens Clinitek Advantus	CVP >>>	12	4	3+, 4+				
(229) 77 Elektronika LabUMat, LabUMat 2	CVP >>>	29	9,7	3+, 4+				
(230) Dirui FUS-series	>	18	6	1+, 2+				
	CVP >>>	35	12	3+, 4+				
(998) Manual	>	9	3	1+, 2+				
	CVP >>>	21	7	3+, 4+				
(999) another system	>	3	1	1+, 2+				
	CVP >>>	9	3	3+, 4+				