

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - manufacturer of kit

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	AV	N _{tot}	Frequency of the results			Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(268) Bilirubin		298				276	273	99
Sample A		298				298	296	99
(5) Dialab	CVP >>>	3	1	Negative				
(12) Beckman Coulter	CVP >>>	8	2,7	Negative				
(18) Cormay	CVP >>>	1	0,3	Negative				
(46) Erba Lachema		1	0,3	Not specified				
	CVP >>>	40	13	Negative				
(49) BioVendor	CVP >>>	8	2,7	Negative				
(60) Roche	CVP >>>	29	9,7	Negative				
(63) Sysmex	CVP >>>	14	4,7	Negative				
(109) Axis-Shield	CVP >>>	1	0,3	Negative				
(150) Arkray	CVP >>>	28	9,4	Negative				
(161) YD Diagnostics	CVP >>>	1	0,3	Negative				
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative				
(179) Siemens	CVP >>>	41	14	Negative				
		1	0,3	3+, 4+				
(197) Analyticon	CVP >>>	2	0,7	Negative				
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative				
(201) Iris Diagnostics	CVP >>>	13	4,4	Negative				
(202) Dirui	CVP >>>	63	21	Negative				
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative				
(999) another manufacturer	CVP >>>	2	0,7	Negative				
Sample B		298				276	274	99
(5) Dialab	CVP >>>	3	1	3+, 4+				
(12) Beckman Coulter; (223) Iris iChem Velocity		±	2	0,7	Negative			
		±	5	1,7	1+, 2+			
		±	1	0,3	3+, 4+			
(18) Cormay	CVP >>>	1	0,3	3+, 4+				
(46) Erba Lachema	CVP >>>	41	14	3+, 4+				
(49) BioVendor	CVP >>>	8	2,7	3+, 4+				
(60) Roche		>	1	0,3	1+, 2+			
	CVP >>>	28	9,4	3+, 4+				
(63) Sysmex	CVP >>>	14	4,7	3+, 4+				
(109) Axis-Shield	CVP >>>	1	0,3	3+, 4+				
(150) Arkray	CVP >>>	27	9,1	3+, 4+				
(150) Arkray; (223) Iris iChem Velocity		±	1	0,3	3+, 4+			
(161) YD Diagnostics		>	1	0,3	1+, 2+			
(162) Siemens (Atellica)	CVP >>>	8	2,7	3+, 4+				
(179) Siemens		1	0,3	Negative				
		>	1	0,3	1+, 2+			
	CVP >>>	40	13	3+, 4+				
(197) Analyticon	CVP >>>	2	0,7	3+, 4+				
(199) Eurolab Lambda	CVP >>>	1	0,3	3+, 4+				
(201) Iris Diagnostics; (223) Iris iChem Velocity		±	8	2,7	Negative			
		±	3	1	1+, 2+			
		±	2	0,7	3+, 4+			
(202) Dirui		1	0,3	Not specified				
		>	1	0,3	1+, 2+			
	CVP >>>	61	20	3+, 4+				
(207) 77 Elektronika Kft.		>	5	1,7	1+, 2+			
	CVP >>>	28	9,4	3+, 4+				
(999) another manufacturer	CVP >>>	2	0,7	3+, 4+				
(264) Total protein		300				300	289	96
Sample A		300				300	299	100
(5) Dialab	CVP >>>	3	1	Negative, < 0,3 g/L				
(12) Beckman Coulter	CVP >>>	8	2,7	Negative, < 0,3 g/L				
(18) Cormay	CVP >>>	1	0,3	Negative, < 0,3 g/L				
(46) Erba Lachema	CVP >>>	42	14	Negative, < 0,3 g/L				
(49) BioVendor	CVP >>>	8	2,7	Negative, < 0,3 g/L				
(60) Roche	CVP >>>	29	9,7	Negative, < 0,3 g/L				
(63) Sysmex	CVP >>>	15	5	Negative, < 0,3 g/L				
(109) Axis-Shield	CVP >>>	1	0,3	Negative, < 0,3 g/L				
(150) Arkray	CVP >>>	28	9,3	Negative, < 0,3 g/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} [%]
(161) YD Diagnostics	CVP >>>	1	0,3	Negative, < 0,3 g/L			
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative, < 0,3 g/L			
		1	0,3	> 2,5 g/L			
(179) Siemens	CVP >>>	41	14	Negative, < 0,3 g/L			
(197) Analyticon	CVP >>>	2	0,7	Negative, < 0,3 g/L			
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative, < 0,3 g/L			
(201) Iris Diagnostics	CVP >>>	13	4,3	Negative, < 0,3 g/L			
(202) Dirui	CVP >>>	63	21	Negative, < 0,3 g/L			
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative, < 0,3 g/L			
(999) another manufacturer	CVP >>>	2	0,7	Negative, < 0,3 g/L			
Sample B		300			300	289	96
(5) Dialab	CVP >>>	3	1	> 2,5 g/L			
(12) Beckman Coulter	>	5	1,7	0,51 - 2,5 g/L			
	CVP >>>	3	1	> 2,5 g/L			
(18) Cormay	CVP >>>	1	0,3	> 2,5 g/L			
(46) Erba Lachema		2	0,7	0,3 - 0,5 g/L			
	>	20	6,7	0,51 - 2,5 g/L			
	CVP >>>	20	6,7	> 2,5 g/L			
(49) BioVendor		1	0,3	0,3 - 0,5 g/L			
	>	6	2	0,51 - 2,5 g/L			
	CVP >>>	1	0,3	> 2,5 g/L			
(60) Roche	CVP >>>	29	9,7	> 2,5 g/L			
(63) Sysmex	>	6	2	0,51 - 2,5 g/L			
	CVP >>>	9	3	> 2,5 g/L			
(109) Axis-Shield	CVP >>>	1	0,3	> 2,5 g/L			
(150) Arkray		1	0,3	0,3 - 0,5 g/L			
	>	1	0,3	0,51 - 2,5 g/L			
	CVP >>>	26	8,7	> 2,5 g/L			
(161) YD Diagnostics	CVP >>>	1	0,3	> 2,5 g/L			
(162) Siemens (Atellica)		1	0,3	Negative, < 0,3 g/L			
	>	1	0,3	0,51 - 2,5 g/L			
	CVP >>>	7	2,3	> 2,5 g/L			
(179) Siemens	>	2	0,7	0,51 - 2,5 g/L			
	CVP >>>	39	13	> 2,5 g/L			
(197) Analyticon		1	0,3	Negative, < 0,3 g/L			
	>	1	0,3	0,51 - 2,5 g/L			
(199) Eurolab Lambda	>	1	0,3	0,51 - 2,5 g/L			
(201) Iris Diagnostics		1	0,3	0,3 - 0,5 g/L			
	>	9	3	0,51 - 2,5 g/L			
	CVP >>>	3	1	> 2,5 g/L			
(202) Dirui		1	0,3	0,3 - 0,5 g/L			
	>	32	11	0,51 - 2,5 g/L			
	CVP >>>	30	10	> 2,5 g/L			
(207) 77 Elektronika Kft.		3	1	0,3 - 0,5 g/L			
	>	22	7,3	0,51 - 2,5 g/L			
	CVP >>>	8	2,7	> 2,5 g/L			
(999) another manufacturer	CVP >>>	2	0,7	> 2,5 g/L			
(261) Glucose		300			300	293	98
Sample A		300			300	299	100
(5) Dialab	CVP >>>	3	1	Negative, normal, <= 2,8 mmol/L			
(12) Beckman Coulter	CVP >>>	8	2,7	Negative, normal, <= 2,8 mmol/L			
(18) Cormay	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			
(46) Erba Lachema	CVP >>>	42	14	Negative, normal, <= 2,8 mmol/L			
(49) BioVendor	CVP >>>	8	2,7	Negative, normal, <= 2,8 mmol/L			
(60) Roche	CVP >>>	29	9,7	Negative, normal, <= 2,8 mmol/L			
(63) Sysmex	CVP >>>	15	5	Negative, normal, <= 2,8 mmol/L			
(109) Axis-Shield	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			
(150) Arkray	CVP >>>	28	9,3	Negative, normal, <= 2,8 mmol/L			
(161) YD Diagnostics	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative, normal, <= 2,8 mmol/L			
(179) Siemens	CVP >>>	41	14	Negative, normal, <= 2,8 mmol/L			
		1	0,3	11,1 - 28 mmol/L			
(197) Analyticon	CVP >>>	2	0,7	Negative, normal, <= 2,8 mmol/L			
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative, normal, <= 2,8 mmol/L			
(201) Iris Diagnostics	CVP >>>	13	4,3	Negative, normal, <= 2,8 mmol/L			
(202) Dirui	CVP >>>	63	21	Negative, normal, <= 2,8 mmol/L			
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative, normal, <= 2,8 mmol/L			
(999) another manufacturer	CVP >>>	2	0,7	Negative, normal, <= 2,8 mmol/L			

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			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
Sample B		300				300	293	98
(5) Dialab	>	2	0,7	11,1 - 28 mmol/L				
	CVP >>>	1	0,3	> 28 mmol/L				
(12) Beckman Coulter	>	5	1,7	11,1 - 28 mmol/L				
	CVP >>>	3	1	> 28 mmol/L				
(18) Cormay		1	0,3	2,81 - 11 mmol/L				
(46) Erba Lachema		2	0,7	2,81 - 11 mmol/L				
	>	14	4,7	11,1 - 28 mmol/L				
	CVP >>>	26	8,7	> 28 mmol/L				
(49) BioVendor	CVP >>>	8	2,7	> 28 mmol/L				
(60) Roche	CVP >>>	29	9,7	> 28 mmol/L				
(63) Sysmex	>	7	2,3	11,1 - 28 mmol/L				
	CVP >>>	8	2,7	> 28 mmol/L				
(109) Axis-Shield	CVP >>>	1	0,3	> 28 mmol/L				
(150) Arkray	>	10	3,3	11,1 - 28 mmol/L				
	CVP >>>	18	6	> 28 mmol/L				
(161) YD Diagnostics	>	1	0,3	11,1 - 28 mmol/L				
(162) Siemens (Atellica)	>	3	1	11,1 - 28 mmol/L				
	CVP >>>	5	1,7	> 28 mmol/L				
(179) Siemens		1	0,3	Negative, normal, <= 2,8 mmol/L				
		2	0,7	2,81 - 11 mmol/L				
	>	20	6,7	11,1 - 28 mmol/L				
	CVP >>>	19	6,3	> 28 mmol/L				
(197) Analyticon	CVP >>>	2	0,7	> 28 mmol/L				
(199) Eurolab Lambda	CVP >>>	1	0,3	> 28 mmol/L				
(201) Iris Diagnostics		1	0,3	2,81 - 11 mmol/L				
	>	3	1	11,1 - 28 mmol/L				
	CVP >>>	9	3	> 28 mmol/L				
(202) Dirui	>	17	5,7	11,1 - 28 mmol/L				
	CVP >>>	46	15	> 28 mmol/L				
(207) 77 Elektronika Kft.	CVP >>>	33	11	> 28 mmol/L				
(999) another manufacturer	CVP >>>	2	0,7	> 28 mmol/L				
(275) hCG		13				13	13	100
Sample A		13				13	13	100
(5) Dialab	CVP >>>	3	23	Negative				
(17) Biogema	CVP >>>	3	23	Negative				
(32) Human	CVP >>>	1	7,7	Negative				
(115) BioSystems	CVP >>>	1	7,7	Negative				
(179) Siemens	CVP >>>	1	7,7	Negative				
(999) another manufacturer	CVP >>>	4	31	Negative				
Sample B		13				13	13	100
(5) Dialab	CVP >>>	3	23	Positive				
(17) Biogema	CVP >>>	3	23	Positive				
(32) Human	CVP >>>	1	7,7	Positive				
(115) BioSystems	CVP >>>	1	7,7	Positive				
(179) Siemens	CVP >>>	1	7,7	Positive				
(999) another manufacturer	CVP >>>	4	31	Positive				
(263) Ketone bodies		299				299	295	99
Sample A		299				299	298	100
(5) Dialab	CVP >>>	3	1	Negative, <= 0,5 mmol/L				
(12) Beckman Coulter	CVP >>>	8	2,7	Negative, <= 0,5 mmol/L				
(18) Cormay	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L				
(46) Erba Lachema	CVP >>>	42	14	Negative, <= 0,5 mmol/L				
(49) BioVendor	CVP >>>	8	2,7	Negative, <= 0,5 mmol/L				
(60) Roche	CVP >>>	29	9,7	Negative, <= 0,5 mmol/L				
(63) Sysmex	CVP >>>	15	5	Negative, <= 0,5 mmol/L				
(109) Axis-Shield	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L				
(150) Arkray	CVP >>>	28	9,4	Negative, <= 0,5 mmol/L				
(161) YD Diagnostics	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L				
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative, <= 0,5 mmol/L				
(179) Siemens	CVP >>>	40	13	Negative, <= 0,5 mmol/L				
		1	0,3	1+, 2+				
(197) Analyticon	CVP >>>	2	0,7	Negative, <= 0,5 mmol/L				
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative, <= 0,5 mmol/L				
(201) Iris Diagnostics	CVP >>>	13	4,3	Negative, <= 0,5 mmol/L				
(202) Dirui	CVP >>>	63	21	Negative, <= 0,5 mmol/L				
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative, <= 0,5 mmol/L				
(999) another manufacturer	CVP >>>	2	0,7	Negative, <= 0,5 mmol/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} [%]	
Sample B		299				299	295	99
(5) Dialab	>	3	1	1+, 2+				
(12) Beckman Coulter	>	1	0,3	1+, 2+				
	CVP >>>	7	2,3	3+, 4+				
(18) Cormay	>	1	0,3	1+, 2+				
(46) Erba Lachema		1	0,3	Negative, <= 0,5 mmol/L				
	>	31	10	1+, 2+				
	CVP >>>	10	3,3	3+, 4+				
(49) BioVendor	>	6	2	1+, 2+				
	CVP >>>	2	0,7	3+, 4+				
(60) Roche	CVP >>>	29	9,7	3+, 4+				
(63) Sysmex	>	12	4	1+, 2+				
	CVP >>>	3	1	3+, 4+				
(109) Axis-Shield	>	1	0,3	1+, 2+				
(150) Arkray	CVP >>>	28	9,4	3+, 4+				
(161) YD Diagnostics	>	1	0,3	1+, 2+				
(162) Siemens (Atellica)	>	8	2,7	1+, 2+				
(179) Siemens		1	0,3	Not specified				
		2	0,7	Negative, <= 0,5 mmol/L				
	>	28	9,4	1+, 2+				
	CVP >>>	10	3,3	3+, 4+				
(197) Analyticon	>	2	0,7	1+, 2+				
(199) Eurolab Lambda	>	1	0,3	1+, 2+				
(201) Iris Diagnostics	>	2	0,7	1+, 2+				
	CVP >>>	11	3,7	3+, 4+				
(202) Dirui	>	16	5,4	1+, 2+				
	CVP >>>	47	16	3+, 4+				
(207) 77 Elektronika Kft.	>	28	9,4	1+, 2+				
	CVP >>>	5	1,7	3+, 4+				
(999) another manufacturer	>	1	0,3	1+, 2+				
	CVP >>>	1	0,3	3+, 4+				
(272) Blood		300				300	294	98
Sample A		300				300	297	99
(5) Dialab	CVP >>>	3	1	Negative				
(12) Beckman Coulter	CVP >>>	8	2,7	Negative				
(18) Cormay	CVP >>>	1	0,3	Negative				
(46) Erba Lachema	CVP >>>	41	14	Negative				
		1	0,3	5 - 12 ery/ μ L				
(49) BioVendor	CVP >>>	8	2,7	Negative				
(60) Roche	CVP >>>	29	9,7	Negative				
(63) Sysmex	CVP >>>	15	5	Negative				
(109) Axis-Shield	CVP >>>	1	0,3	Negative				
(150) Arkray	CVP >>>	28	9,3	Negative				
(161) YD Diagnostics	CVP >>>	1	0,3	Negative				
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative				
(179) Siemens	CVP >>>	41	14	Negative				
		1	0,3	> 50 ery/ μ L				
(197) Analyticon	CVP >>>	2	0,7	Negative				
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative				
(201) Iris Diagnostics	CVP >>>	13	4,3	Negative				
(202) Dirui	CVP >>>	62	21	Negative				
		1	0,3	13 - 50 ery/ μ L				
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative				
(999) another manufacturer	CVP >>>	2	0,7	Negative				
Sample B		300				300	296	99
(5) Dialab	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	2	0,7	> 50 ery/ μ L				
(12) Beckman Coulter		1	0,3	5 - 12 ery/ μ L				
	>	5	1,7	13 - 50 ery/ μ L				
	CVP >>>	2	0,7	> 50 ery/ μ L				
(18) Cormay	CVP >>>	1	0,3	> 50 ery/ μ L				
(46) Erba Lachema	>	10	3,3	13 - 50 ery/ μ L				
	CVP >>>	32	11	> 50 ery/ μ L				
(49) BioVendor	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	7	2,3	> 50 ery/ μ L				
(60) Roche	>	1	0,3	13 - 50 ery/ μ L				
	CVP >>>	28	9,3	> 50 ery/ μ L				
(63) Sysmex	>	8	2,7	13 - 50 ery/ μ L				
	CVP >>>	7	2,3	> 50 ery/ μ L				

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			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(109) Axis-Shield	CVP >>>	1	0,3	> 50 ery/μL			
(150) Arkray	>	7	2,3	13 - 50 ery/μL			
	CVP >>>	21	7	> 50 ery/μL			
(161) YD Diagnostics	CVP >>>	1	0,3	> 50 ery/μL			
(162) Siemens (Atellica)	CVP >>>	8	2,7	> 50 ery/μL			
(179) Siemens		1	0,3	Negative			
	>	6	2	13 - 50 ery/μL			
	CVP >>>	35	12	> 50 ery/μL			
(197) Analyticon	CVP >>>	2	0,7	> 50 ery/μL			
(199) Eurolab Lambda	>	1	0,3	13 - 50 ery/μL			
(201) Iris Diagnostics		1	0,3	5 - 12 ery/μL			
	>	8	2,7	13 - 50 ery/μL			
	CVP >>>	4	1,3	> 50 ery/μL			
(202) Dirui		1	0,3	5 - 12 ery/μL			
	>	4	1,3	13 - 50 ery/μL			
	CVP >>>	58	19	> 50 ery/μL			
(207) 77 Elektronika Kft.	>	4	1,3	13 - 50 ery/μL			
	CVP >>>	29	9,7	> 50 ery/μL			
(999) another manufacturer	CVP >>>	2	0,7	> 50 ery/μL			
(270) WBC		265			265	253	95
Sample A		265			265	263	99
(5) Dialab	CVP >>>	3	1,1	Negative			
(12) Beckman Coulter	CVP >>>	8	3	Negative			
(18) Cormay	CVP >>>	1	0,4	Negative			
(46) Erba Lachema	CVP >>>	13	4,9	Negative			
(49) BioVendor	CVP >>>	7	2,6	Negative			
		1	0,4	10 - 50 leu/μL			
(60) Roche	CVP >>>	28	11	Negative			
(63) Sysmex	CVP >>>	15	5,7	Negative			
(109) Axis-Shield	CVP >>>	1	0,4	Negative			
(150) Arkray	CVP >>>	27	10	Negative			
(162) Siemens (Atellica)	CVP >>>	8	3	Negative			
(179) Siemens	CVP >>>	40	15	Negative			
		1	0,4	> 250 leu/μL			
(197) Analyticon	CVP >>>	2	0,8	Negative			
(199) Eurolab Lambda	CVP >>>	1	0,4	Negative			
(201) Iris Diagnostics	CVP >>>	12	4,5	Negative			
(202) Dirui	CVP >>>	63	24	Negative			
(207) 77 Elektronika Kft.	CVP >>>	32	12	Negative			
(999) another manufacturer	CVP >>>	2	0,8	Negative			
Sample B		265			265	254	96
(5) Dialab	CVP >>>	3	1,1	> 250 leu/μL			
(12) Beckman Coulter	>	5	1,9	51 - 250 leu/μL			
	CVP >>>	3	1,1	> 250 leu/μL			
(18) Cormay	>	1	0,4	51 - 250 leu/μL			
(46) Erba Lachema	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	12	4,5	> 250 leu/μL			
(49) BioVendor	>	3	1,1	51 - 250 leu/μL			
	CVP >>>	5	1,9	> 250 leu/μL			
(60) Roche	>	4	1,5	51 - 250 leu/μL			
	CVP >>>	24	9,1	> 250 leu/μL			
(63) Sysmex		4	1,5	10 - 50 leu/μL			
	>	6	2,3	51 - 250 leu/μL			
	CVP >>>	5	1,9	> 250 leu/μL			
(109) Axis-Shield	CVP >>>	1	0,4	> 250 leu/μL			
(150) Arkray	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	26	9,8	> 250 leu/μL			
(162) Siemens (Atellica)	>	2	0,8	51 - 250 leu/μL			
	CVP >>>	6	2,3	> 250 leu/μL			
(179) Siemens		1	0,4	Negative			
		2	0,8	10 - 50 leu/μL			
	>	10	3,8	51 - 250 leu/μL			
	CVP >>>	28	11	> 250 leu/μL			
(197) Analyticon	>	2	0,8	51 - 250 leu/μL			
(199) Eurolab Lambda	CVP >>>	1	0,4	> 250 leu/μL			
(201) Iris Diagnostics		3	1,1	10 - 50 leu/μL			
	>	7	2,6	51 - 250 leu/μL			
	CVP >>>	2	0,8	> 250 leu/μL			
(202) Dirui		1	0,4	10 - 50 leu/μL			

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Setup: groups - manufacturer of kit

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
	>	26	9,8	51 - 250 leu/μL			
	CVP >>>	36	14	> 250 leu/μL			
(207) 77 Elektronika Kft.	>	4	1,5	51 - 250 leu/μL			
	CVP >>>	28	11	> 250 leu/μL			
(999) another manufacturer	>	1	0,4	51 - 250 leu/μL			
	CVP >>>	1	0,4	> 250 leu/μL			
(274) Nitrite		270			270	266	99
Sample A		270			270	269	100
(5) Dialab	CVP >>>	3	1,1	Negative			
(9) Bayer	CVP >>>	1	0,4	Negative			
(12) Beckman Coulter	CVP >>>	8	3	Negative			
(18) Cormay	CVP >>>	1	0,4	Negative			
(46) Erba Lachema	CVP >>>	16	5,9	Negative			
(49) BioVendor	CVP >>>	8	3	Negative			
(60) Roche	CVP >>>	27	10	Negative			
(63) Sysmex	CVP >>>	15	5,6	Negative			
(109) Axis-Shield	CVP >>>	1	0,4	Negative			
(150) Arkray	CVP >>>	28	10	Negative			
(162) Siemens (Atellica)	CVP >>>	8	3	Negative			
(179) Siemens	CVP >>>	40	15	Negative			
		1	0,4	Positive			
(197) Analyticon	CVP >>>	2	0,7	Negative			
(199) Eurolab Lambda	CVP >>>	1	0,4	Negative			
(201) Iris Diagnostics	CVP >>>	13	4,8	Negative			
(202) Dirui	CVP >>>	63	23	Negative			
(207) 77 Elektronika Kft.	CVP >>>	32	12	Negative			
(999) another manufacturer	CVP >>>	2	0,7	Negative			
Sample B		270			270	266	99
(5) Dialab	CVP >>>	3	1,1	Positive			
(9) Bayer	CVP >>>	1	0,4	Positive			
(12) Beckman Coulter	CVP >>>	8	3	Positive			
(18) Cormay	CVP >>>	1	0,4	Positive			
(46) Erba Lachema	CVP >>>	16	5,9	Positive			
(49) BioVendor	CVP >>>	8	3	Positive			
(60) Roche	CVP >>>	27	10	Positive			
(63) Sysmex	CVP >>>	15	5,6	Positive			
(109) Axis-Shield	CVP >>>	1	0,4	Positive			
(150) Arkray		1	0,4	Negative			
	CVP >>>	27	10	Positive			
(162) Siemens (Atellica)	CVP >>>	8	3	Positive			
(179) Siemens		1	0,4	Negative			
	CVP >>>	40	15	Positive			
(197) Analyticon	CVP >>>	2	0,7	Positive			
(199) Eurolab Lambda	CVP >>>	1	0,4	Positive			
(201) Iris Diagnostics	CVP >>>	13	4,8	Positive			
(202) Dirui		1	0,4	Negative			
	CVP >>>	62	23	Positive			
(207) 77 Elektronika Kft.		1	0,4	Negative			
	CVP >>>	31	11	Positive			
(999) another manufacturer	CVP >>>	2	0,7	Positive			
(273) pH		300			300	296	99
Sample A		300			300	297	99
(5) Dialab	>	1	0,3	5,5			
	>	2	0,7	6,0			
(12) Beckman Coulter	CVP >>>	1	0,3	5,0			
	>	3	1	5,5			
	>	3	1	6,0			
		1	0,3	6,5			
(18) Cormay	CVP >>>	1	0,3	5,0			
(46) Erba Lachema	CVP >>>	35	12	5,0			
	>	4	1,3	5,5			
	>	2	0,7	6,0			
		1	0,3	6,5			
(49) BioVendor	CVP >>>	6	2	5,0			
	>	2	0,7	5,5			
(60) Roche	CVP >>>	29	9,7	5,0			
(63) Sysmex	CVP >>>	14	4,7	5,0			
	>	1	0,3	5,5			
(109) Axis-Shield	>	1	0,3	6,0			

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - manufacturer of kit

Test Sample Group	AV	N _{tot}	Frequency of the results		Success		
			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(150) Arkray	CVP >>>	26	8,7	5,0			
	>	2	0,7	5,5			
(161) YD Diagnostics	CVP >>>	1	0,3	5,0			
(162) Siemens (Atellica)	CVP >>>	1	0,3	5,0			
	>	7	2,3	5,5			
(179) Siemens	CVP >>>	11	3,7	5,0			
	>	24	8	5,5			
	>	5	1,7	6,0			
		1	0,3	7,0			
(197) Analyticon	CVP >>>	2	0,7	5,0			
(199) Eurolab Lambda	CVP >>>	1	0,3	5,0			
(201) Iris Diagnostics	CVP >>>	1	0,3	5,0			
	>	6	2	5,5			
	>	6	2	6,0			
(202) Dirui	CVP >>>	11	3,7	5,0			
	>	36	12	5,5			
	>	17	5,7	6,0			
(207) 77 Elektronika Kft.	CVP >>>	29	9,7	5,0			
	>	4	1,3	5,5			
(999) another manufacturer	CVP >>>	2	0,7	5,0			
Sample B		300			300	298	99
(5) Dialab	CVP >>>	2	0,7	7,0			
	>	1	0,3	7,5			
(12) Beckman Coulter		1	0,3	6,5			
	CVP >>>	7	2,3	7,0			
(18) Cormay	CVP >>>	1	0,3	7,0			
(46) Erba Lachema		1	0,3	5,0			
	>	1	0,3	6,0			
	>	4	1,3	6,5			
	CVP >>>	28	9,3	7,0			
	>	4	1,3	7,5			
	>	4	1,3	8,0			
(49) BioVendor		8	2,7	6,5			
(60) Roche	CVP >>>	28	9,3	7,0			
	>	1	0,3	8,0			
(63) Sysmex	CVP >>>	2	0,7	7,0			
	>	13	4,3	7,5			
(109) Axis-Shield		1	0,3	7,5			
(150) Arkray	CVP >>>	3	1	7,0			
	>	23	7,7	7,5			
	>	2	0,7	8,0			
(161) YD Diagnostics		1	0,3	6,5			
(162) Siemens (Atellica)	CVP >>>	8	2,7	7,0			
(179) Siemens		1	0,3	5,5			
	CVP >>>	28	9,3	7,0			
	>	12	4	7,5			
(197) Analyticon		1	0,3	6,0			
	>	1	0,3	6,5			
(199) Eurolab Lambda		1	0,3	6,5			
(201) Iris Diagnostics		3	1	6,5			
	CVP >>>	9	3	7,0			
	>	1	0,3	7,5			
(202) Dirui		1	0,3	6,0			
	>	8	2,7	6,5			
	CVP >>>	42	14	7,0			
	>	13	4,3	7,5			
(207) 77 Elektronika Kft.		1	0,3	6,0			
	>	32	11	6,5			
(999) another manufacturer	CVP >>>	2	0,7	7,0			
(266) Urobilinogen		300			300	298	99
Sample A		300			300	299	100
(5) Dialab	CVP >>>	3	1	Negative, < 17 µmol/L			
(12) Beckman Coulter	CVP >>>	8	2,7	Negative, < 17 µmol/L			
(18) Cormay	CVP >>>	1	0,3	Negative, < 17 µmol/L			
(46) Erba Lachema	CVP >>>	42	14	Negative, < 17 µmol/L			
(49) BioVendor	CVP >>>	8	2,7	Negative, < 17 µmol/L			
(60) Roche	CVP >>>	29	9,7	Negative, < 17 µmol/L			
(63) Sysmex	CVP >>>	15	5	Negative, < 17 µmol/L			
(109) Axis-Shield	CVP >>>	1	0,3	Negative, < 17 µmol/L			

EQA round: DGP1/23 - Urine Strip Tests Analysis

Deadline: 17.2.2023

Setup: groups - manufacturer of kit

Test Sample Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results Result	Success		
					N _{eva}	N _{suc}	S _{rel} [%]
(150) Arkray	CVP >>>	28	9,3	Negative, < 17 µmol/L			
(161) YD Diagnostics	CVP >>>	1	0,3	Negative, < 17 µmol/L			
(162) Siemens (Atellica)	CVP >>>	8	2,7	Negative, < 17 µmol/L			
(179) Siemens	CVP >>>	41	14	Negative, < 17 µmol/L			
		1	0,3	1+, 2+			
(197) Analyticon	CVP >>>	2	0,7	Negative, < 17 µmol/L			
(199) Eurolab Lambda	CVP >>>	1	0,3	Negative, < 17 µmol/L			
(201) Iris Diagnostics	CVP >>>	13	4,3	Negative, < 17 µmol/L			
(202) Dirui	CVP >>>	63	21	Negative, < 17 µmol/L			
(207) 77 Elektronika Kft.	CVP >>>	33	11	Negative, < 17 µmol/L			
(999) another manufacturer	CVP >>>	2	0,7	Negative, < 17 µmol/L			
Sample B		300			300	298	99
(5) Dialab	>	2	0,7	1+, 2+			
	CVP >>>	1	0,3	3+, 4+			
(12) Beckman Coulter	>	5	1,7	1+, 2+			
	CVP >>>	3	1	3+, 4+			
(18) Cormay	CVP >>>	1	0,3	3+, 4+			
(46) Erba Lachema	>	20	6,7	1+, 2+			
	CVP >>>	22	7,3	3+, 4+			
(49) BioVendor	CVP >>>	8	2,7	3+, 4+			
(60) Roche	>	1	0,3	1+, 2+			
	CVP >>>	28	9,3	3+, 4+			
(63) Sysmex	>	9	3	1+, 2+			
	CVP >>>	6	2	3+, 4+			
(109) Axis-Shield	CVP >>>	1	0,3	3+, 4+			
(150) Arkray	>	1	0,3	1+, 2+			
	CVP >>>	27	9	3+, 4+			
(161) YD Diagnostics	CVP >>>	1	0,3	3+, 4+			
(162) Siemens (Atellica)	>	7	2,3	1+, 2+			
	CVP >>>	1	0,3	3+, 4+			
(179) Siemens		1	0,3	Negative, < 17 µmol/L			
	>	19	6,3	1+, 2+			
	CVP >>>	22	7,3	3+, 4+			
(197) Analyticon	CVP >>>	2	0,7	3+, 4+			
(199) Eurolab Lambda	CVP >>>	1	0,3	3+, 4+			
(201) Iris Diagnostics		1	0,3	Negative, < 17 µmol/L			
	>	7	2,3	1+, 2+			
	CVP >>>	5	1,7	3+, 4+			
(202) Dirui	>	18	6	1+, 2+			
	CVP >>>	45	15	3+, 4+			
(207) 77 Elektronika Kft.	CVP >>>	33	11	3+, 4+			
(999) another manufacturer	CVP >>>	2	0,7	3+, 4+			