

EQA round: DGP2/25 - Urine Strip Tests Analysis

Deadline: 2.5.2025

Setup: groups - R (strip manufacturer)

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

>>> ... expected result

S_{rel} = relative success

> ... 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		67			67	67	100
Sample A		67			67	67	100
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	6	Negative			
(18) Cormay	CVP >>>	6	9	Negative			
(46) Erba Lachema	CVP >>>	8	12	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,5	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	33	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
Sample B		67			67	67	100
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	6	Negative			
(18) Cormay	CVP >>>	6	9	Negative			
(46) Erba Lachema	CVP >>>	8	12	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,5	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	33	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
(264) Total protein		66			66	60	91
Sample A		66			66	64	97
(5) Dialab	CVP >>>	1	1,5	Negative, < 0,3 g/L			
(12) Beckman Coulter	CVP >>>	4	6,1	Negative, < 0,3 g/L			
(18) Cormay	CVP >>>	5	7,6	Negative, < 0,3 g/L			
(46) Erba Lachema	CVP >>>	8	12	Negative, < 0,3 g/L			
(49) BioVendor	CVP >>>	1	1,5	0,3 - 0,5 g/L			
(60) Roche	CVP >>>	1	1,5	Negative, < 0,3 g/L			
(63) Sysmex	CVP >>>	3	4,5	Negative, < 0,3 g/L			
(109) Axis-Shield	CVP >>>	7	11	Negative, < 0,3 g/L			
(162) Siemens (Atellica)	CVP >>>	1	1,5	Negative, < 0,3 g/L			
(177) Mindray	CVP >>>	2	3	Negative, < 0,3 g/L			
(179) Siemens	CVP >>>	1	1,5	Negative, < 0,3 g/L			
(202) Dirui	CVP >>>	7	11	Negative, < 0,3 g/L			
(207) 77 Elektronika Kft.	CVP >>>	1	1,5	0,3 - 0,5 g/L			
(207) 77 Elektronika Kft.	CVP >>>	22	33	Negative, < 0,3 g/L			
(207) 77 Elektronika Kft.	CVP >>>	2	3	Negative, < 0,3 g/L			
Sample B		66			66	61	92
(5) Dialab	>	1	1,5	0,3 - 0,5 g/L			
(12) Beckman Coulter	CVP >>>	4	6,1	0,51 - 2,5 g/L			
(18) Cormay	CVP >>>	5	7,6	0,51 - 2,5 g/L			
(46) Erba Lachema	>	1	1,5	0,3 - 0,5 g/L			
(49) BioVendor	CVP >>>	7	11	0,51 - 2,5 g/L			
(60) Roche	CVP >>>	1	1,5	> 2,5 g/L			
(63) Sysmex	CVP >>>	1	1,5	0,3 - 0,5 g/L			
(109) Axis-Shield	CVP >>>	3	4,5	0,51 - 2,5 g/L			
(162) Siemens (Atellica)	CVP >>>	7	11	0,51 - 2,5 g/L			
(177) Mindray	CVP >>>	1	1,5	0,51 - 2,5 g/L			
(179) Siemens	CVP >>>	1	1,5	0,51 - 2,5 g/L			
(202) Dirui	>	1	1,5	> 2,5 g/L			
(202) Dirui	>	1	1,5	0,3 - 0,5 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} [%]
	CVP >>>	18	27	0,51 - 2,5 g/L			
		3	4,5	> 2,5 g/L			
(207) 77 Elektronika Kft.	>	2	3	0,3 - 0,5 g/L			
(261) Glucose		68			68	60	88
Sample A		68			68	66	97
(5) Dialab	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
(12) Beckman Coulter	CVP >>>	2	2,9	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	2	2,9	2,81 - 11 mmol/L			
(18) Cormay	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	3	4,4	2,81 - 11 mmol/L			
		2	2,9	11,1 - 28 mmol/L			
(46) Erba Lachema	CVP >>>	3	4,4	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	5	7,4	2,81 - 11 mmol/L			
(49) BioVendor	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
(60) Roche	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	3	4,4	2,81 - 11 mmol/L			
(63) Sysmex	CVP >>>	6	8,8	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	1	1,5	2,81 - 11 mmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative, normal, <= 2,8 mmol/L			
(177) Mindray	CVP >>>	1	1,5	Negative, normal, <= 2,8 mmol/L			
(179) Siemens	CVP >>>	8	12	Negative, normal, <= 2,8 mmol/L			
(202) Dirui	CVP >>>	18	26	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	4	5,9	2,81 - 11 mmol/L			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	2,81 - 11 mmol/L			
(999) another manufacturer	CVP >>>	1	1,5	2,81 - 11 mmol/L			
Sample B		68			68	62	91
(5) Dialab		1	1,5	2,81 - 11 mmol/L			
(12) Beckman Coulter	CVP >>>	3	4,4	11,1 - 28 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(18) Cormay		1	1,5	Negative, normal, <= 2,8 mmol/L			
	CVP >>>	1	1,5	11,1 - 28 mmol/L			
	CVP >>>	4	5,9	> 28 mmol/L			
(46) Erba Lachema	CVP >>>	7	10	11,1 - 28 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(49) BioVendor		1	1,5	2,81 - 11 mmol/L			
(60) Roche	CVP >>>	2	2,9	11,1 - 28 mmol/L			
	CVP >>>	2	2,9	> 28 mmol/L			
(63) Sysmex	CVP >>>	6	8,8	11,1 - 28 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	> 28 mmol/L			
(162) Siemens (Atellica)		1	1,5	2,81 - 11 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(177) Mindray	CVP >>>	1	1,5	> 28 mmol/L			
(179) Siemens	CVP >>>	7	10	11,1 - 28 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(202) Dirui		2	2,9	2,81 - 11 mmol/L			
	CVP >>>	19	28	11,1 - 28 mmol/L			
	CVP >>>	1	1,5	> 28 mmol/L			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	11,1 - 28 mmol/L			
(999) another manufacturer	CVP >>>	1	1,5	> 28 mmol/L			
(275) hCG		4			4	4	100
Sample A		4			4	4	100
(17) Biogema	CVP >>>	1	25	Negative			
(49) BioVendor	CVP >>>	1	25	Negative			
(179) Siemens	CVP >>>	1	25	Negative			
(202) Dirui	CVP >>>	1	25	Negative			
Sample B		4			4	4	100
(17) Biogema	CVP >>>	1	25	Positive			
(49) BioVendor	CVP >>>	1	25	Positive			
(179) Siemens	CVP >>>	1	25	Positive			
(202) Dirui	CVP >>>	1	25	Positive			
(263) Ketone bodies		68			68	66	97
Sample A		68			68	67	99
(5) Dialab	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative, <= 0,5 mmol/L			
(18) Cormay	CVP >>>	5	7,4	Negative, <= 0,5 mmol/L			
		1	1,5	3+, 4+			
(46) Erba Lachema	CVP >>>	9	13	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} [%]
(49) BioVendor	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(60) Roche	CVP >>>	3	4,4	Negative, <= 0,5 mmol/L			
(63) Sysmex	CVP >>>	7	10	Negative, <= 0,5 mmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative, <= 0,5 mmol/L			
(179) Siemens	CVP >>>	8	12	Negative, <= 0,5 mmol/L			
(202) Dirui	CVP >>>	23	34	Negative, <= 0,5 mmol/L			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative, <= 0,5 mmol/L			
(999) another manufacturer	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
Sample B		68			68	66	97
(5) Dialab	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative, <= 0,5 mmol/L			
(18) Cormay	CVP >>>	5	7,4	Negative, <= 0,5 mmol/L			
		1	1,5	1+, 2+			
(46) Erba Lachema	CVP >>>	9	13	Negative, <= 0,5 mmol/L			
(49) BioVendor	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(60) Roche	CVP >>>	3	4,4	Negative, <= 0,5 mmol/L			
(63) Sysmex	CVP >>>	7	10	Negative, <= 0,5 mmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative, <= 0,5 mmol/L			
(179) Siemens	CVP >>>	8	12	Negative, <= 0,5 mmol/L			
(202) Dirui	CVP >>>	22	32	Negative, <= 0,5 mmol/L			
		1	1,5	1+, 2+			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative, <= 0,5 mmol/L			
(999) another manufacturer	CVP >>>	1	1,5	Negative, <= 0,5 mmol/L			
(272) Blood		68			68	68	100
Sample A		68			68	68	100
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative			
(18) Cormay	CVP >>>	6	8,8	Negative			
(46) Erba Lachema	CVP >>>	9	13	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,4	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	32	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
Sample B		68			68	68	100
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative			
(18) Cormay	CVP >>>	6	8,8	Negative			
(46) Erba Lachema	CVP >>>	9	13	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,4	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	32	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
(270) WBC		64			64	64	100
Sample A		64			64	64	100
(5) Dialab	CVP >>>	1	1,6	Negative			
(12) Beckman Coulter	CVP >>>	4	6,3	Negative			
(18) Cormay	CVP >>>	6	9,4	Negative			
(46) Erba Lachema	CVP >>>	6	9,4	Negative			
(49) BioVendor	CVP >>>	1	1,6	Negative			
(60) Roche	CVP >>>	2	3,1	Negative			
(63) Sysmex	CVP >>>	7	11	Negative			
(109) Axis-Shield	CVP >>>	1	1,6	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3,1	Negative			
(177) Mindray	CVP >>>	1	1,6	Negative			
(179) Siemens	CVP >>>	8	13	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} [%]
(202) Dirui	CVP >>>	22	34	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3,1	Negative			
(999) another manufacturer	CVP >>>	1	1,6	Negative			
Sample B		64			64	64	100
(5) Dialab	CVP >>>	1	1,6	Negative			
(12) Beckman Coulter	CVP >>>	4	6,3	Negative			
(18) Cormay	CVP >>>	6	9,4	Negative			
(46) Erba Lachema	CVP >>>	6	9,4	Negative			
(49) BioVendor	CVP >>>	1	1,6	Negative			
(60) Roche	CVP >>>	2	3,1	Negative			
(63) Sysmex	CVP >>>	7	11	Negative			
(109) Axis-Shield	CVP >>>	1	1,6	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3,1	Negative			
(177) Mindray	CVP >>>	1	1,6	Negative			
(179) Siemens	CVP >>>	8	13	Negative			
(202) Dirui	CVP >>>	22	34	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3,1	Negative			
(999) another manufacturer	CVP >>>	1	1,6	Negative			
(274) Nitrite		67			67	66	99
Sample A		67			67	66	99
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	6	Negative			
(18) Cormay	CVP >>>	5	7,5	Negative			
		1	1,5	Positive			
(46) Erba Lachema	CVP >>>	8	12	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,5	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	33	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
Sample B		67			67	66	99
(5) Dialab	CVP >>>	1	1,5	Negative			
(12) Beckman Coulter	CVP >>>	4	6	Negative			
(18) Cormay	CVP >>>	5	7,5	Negative			
		1	1,5	Positive			
(46) Erba Lachema	CVP >>>	8	12	Negative			
(49) BioVendor	CVP >>>	1	1,5	Negative			
(60) Roche	CVP >>>	3	4,5	Negative			
(63) Sysmex	CVP >>>	7	10	Negative			
(109) Axis-Shield	CVP >>>	1	1,5	Negative			
(162) Siemens (Atellica)	CVP >>>	2	3	Negative			
(177) Mindray	CVP >>>	1	1,5	Negative			
(179) Siemens	CVP >>>	8	12	Negative			
(202) Dirui	CVP >>>	22	33	Negative			
(207) 77 Elektronika Kft.	CVP >>>	2	3	Negative			
(999) another manufacturer	CVP >>>	1	1,5	Negative			
(273) pH		68			68	67	99
Sample A		68			68	67	99
(5) Dialab	>	1	1,5	6,0			
(12) Beckman Coulter	CVP >>>	3	4,4	6,5			
	>	1	1,5	7,0			
(18) Cormay		1	1,5	Not specified			
	>	4	5,9	6,0			
	CVP >>>	1	1,5	6,5			
(46) Erba Lachema		1	1,5	5,5			
	>	2	2,9	6,0			
	CVP >>>	6	8,8	6,5			
(49) BioVendor	CVP >>>	1	1,5	6,5			
(60) Roche	>	3	4,4	7,0			
(63) Sysmex		1	1,5	6,0			
	CVP >>>	6	8,8	6,5			
(109) Axis-Shield	>	1	1,5	5,5			
(162) Siemens (Atellica)	>	2	2,9	7,0			
(177) Mindray	>	1	1,5	6,0			

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			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(179) Siemens	CVP >>>	2	2,9	6,5			
	>	6	8,8	7,0			
(202) Dirui	>	12	18	6,0			
	CVP >>>	10	15	6,5			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	6,5			
(999) another manufacturer	>	1	1,5	6,0			
Sample B		68			68	68	100
(5) Dialab	>	1	1,5	6,0			
(12) Beckman Coulter	>	1	1,5	6,0			
	CVP >>>	3	4,4	6,5			
(18) Cormay	>	2	2,9	6,0			
	CVP >>>	4	5,9	6,5			
(46) Erba Lachema	>	4	5,9	6,0			
	CVP >>>	4	5,9	6,5			
	>	1	1,5	7,0			
(49) BioVendor	>	1	1,5	6,0			
(60) Roche	>	3	4,4	6,0			
(63) Sysmex	>	1	1,5	6,0			
	CVP >>>	6	8,8	6,5			
(109) Axis-Shield	>	1	1,5	6,0			
(162) Siemens (Atellica)	CVP >>>	2	2,9	6,5			
(177) Mindray	>	1	1,5	6,0			
(179) Siemens	CVP >>>	8	12	6,5			
(202) Dirui	>	6	8,8	6,0			
	CVP >>>	16	24	6,5			
(207) 77 Elektronika Kft.	>	2	2,9	6,0			
(999) another manufacturer	>	1	1,5	6,0			
(266) Urobilinogen		68			68	66	97
Sample A		68			68	66	97
(5) Dialab	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative, < 17 µmol/L			
(18) Cormay	CVP >>>	5	7,4	Negative, < 17 µmol/L			
		1	1,5	1+, 2+			
(46) Erba Lachema	CVP >>>	9	13	Negative, < 17 µmol/L			
(49) BioVendor	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(60) Roche	CVP >>>	3	4,4	Negative, < 17 µmol/L			
(63) Sysmex	CVP >>>	7	10	Negative, < 17 µmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative, < 17 µmol/L			
(177) Mindray	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(179) Siemens	CVP >>>	8	12	Negative, < 17 µmol/L			
(202) Dirui	CVP >>>	22	32	Negative, < 17 µmol/L			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative, < 17 µmol/L			
(999) another manufacturer		1	1,5	1+, 2+			
Sample B		68			68	66	97
(5) Dialab	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(12) Beckman Coulter	CVP >>>	4	5,9	Negative, < 17 µmol/L			
(18) Cormay	CVP >>>	5	7,4	Negative, < 17 µmol/L			
		1	1,5	1+, 2+			
(46) Erba Lachema	CVP >>>	9	13	Negative, < 17 µmol/L			
(49) BioVendor	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(60) Roche	CVP >>>	3	4,4	Negative, < 17 µmol/L			
(63) Sysmex	CVP >>>	7	10	Negative, < 17 µmol/L			
(109) Axis-Shield	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(162) Siemens (Atellica)	CVP >>>	2	2,9	Negative, < 17 µmol/L			
(177) Mindray	CVP >>>	1	1,5	Negative, < 17 µmol/L			
(179) Siemens	CVP >>>	8	12	Negative, < 17 µmol/L			
(202) Dirui	CVP >>>	22	32	Negative, < 17 µmol/L			
(207) 77 Elektronika Kft.	CVP >>>	2	2,9	Negative, < 17 µmol/L			
(999) another manufacturer		1	1,5	1+, 2+			