

EQA round: DGP2/23 - Urine Strip Tests Analysis

Deadline: 19.5.2023

Setup: all data

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		58			58	57	98
Sample A		58			58	57	98
All results	CVP >>>	57	98	Negative			
		1	1,7	1+, 2+			
Sample B		58			58	58	100
All results	>	3	5,2	1+, 2+			
	CVP >>>	55	95	3+, 4+			
(264) Total protein		60			60	57	95
Sample A		60			60	60	100
All results	CVP >>>	57	95	Negative, < 0,3 g/L			
	>	3	5	0,3 - 0,5 g/L			
Sample B		60			60	57	95
All results		1	1,7	Negative, < 0,3 g/L			
		2	3,3	0,3 - 0,5 g/L			
	CVP >>>	35	58	0,51 - 2,5 g/L			
	CVP >>>	22	37	> 2,5 g/L			
(261) Glucose		60			60	59	98
Sample A		60			60	60	100
All results	CVP >>>	46	77	Negative, normal, <= 2,8 mmol/L			
	>	14	23	2,81 - 11 mmol/L			
Sample B		60			60	59	98
All results		1	1,7	2,81 - 11 mmol/L			
	>	19	32	11,1 - 28 mmol/L			
	CVP >>>	40	67	> 28 mmol/L			
(275) hCG		6			6	6	100
Sample A		6			6	6	100
All results	CVP >>>	6	100	Negative			
Sample B		6			6	6	100
All results	CVP >>>	6	100	Positive			
(263) Ketone bodies		60			60	54	90
Sample A		60			60	60	100
All results	CVP >>>	60	100	Negative, <= 0,5 mmol/L			
Sample B		60			60	54	90
All results		6	10	Negative, <= 0,5 mmol/L			
	CVP >>>	38	63	1+, 2+			
	>	16	27	3+, 4+			
(272) Blood		60			60	60	100
Sample A		60			60	60	100
All results	CVP >>>	60	100	Negative			
Sample B		60			60	60	100
All results	>	5	8,3	13 - 50 ery/μL			
	CVP >>>	55	92	> 50 ery/μL			
(270) WBC		55			55	49	89
Sample A		55			55	53	96
All results	CVP >>>	53	96	Negative			
		2	3,6	10 - 50 leu/μL			
Sample B		55			55	51	93
All results		4	7,3	Negative			
	>	2	3,6	10 - 50 leu/μL			
	CVP >>>	23	42	51 - 250 leu/μL			
	CVP >>>	26	47	> 250 leu/μL			
(274) Nitrite		58			58	58	100
Sample A		58			58	58	100
All results	CVP >>>	58	100	Negative			
Sample B		58			58	58	100
All results	CVP >>>	58	100	Positive			
(273) pH		60			60	57	95
Sample A		60			60	57	95
All results		3	5	5,0			
	>	2	3,3	5,5			
	>	15	25	6,0			
	CVP >>>	34	57	6,5			
	>	6	10	7,0			

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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		60				60	60	100
All results	>	2	3,3	6,0				
	CVP >>>	23	38	6,5				
	CVP >>>	35	58	7,0				
(266) Urobilinogen		60				60	59	98
Sample A		60				60	59	98
All results	CVP >>>	59	98	Negative, < 17 µmol/L				
		1	1,7	1+, 2+				
Sample B		60				60	60	100
All results	CVP >>>	25	42	1+, 2+				
	CVP >>>	35	58	3+, 4+				