

## Summary statistics - qualitative results

(Groups: measurement principle)

## EQA round: DGP2/18 - Urine Strip Tests Analysis

Dead line: 22.06.2018

Key: &gt;&gt;&gt; ... marks correct (expected) result

&gt; ... marks conditionally correct (acceptable) result

± ... marks the result not evaluated

N ... number of the results

Nrel ... relative number of the results

## Test

Sample	Group	N	Result	N <sub>rel</sub>
<b>(261) Glucose</b>				
A	(1) Visual	>>> 7	Negative, normal, <= 2,8 mmol/L	11 %
		> 4	2,81 - 11 mmol/L	6,2 %
	(2) Reflectance (reader)	>>> 41	Negative, normal, <= 2,8 mmol/L	63 %
		> 13	2,81 - 11 mmol/L	20 %
----- Total per sample: n = 65 -----		Success: 100 %		
B	(1) Visual	>>> 11	> 28 mmol/L	17 %
	(2) Reflectance (reader)	> 16	11,1 - 28 mmol/L	25 %
		>>> 38	> 28 mmol/L	58 %
----- Total per sample: n = 65 -----		Success: 100 %		
Total success: 100 %				

**(263) Ketone bodies**

A	(1) Visual	>>> 11	Negative, <= 0,5 mmol/L	17 %
	(2) Reflectance (reader)	>>> 54	Negative, <= 0,5 mmol/L	83 %
----- Total per sample: n = 65 -----		Success: 100 %		
B	(1) Visual	>>> 8	1+, 2+	12 %
		> 3	3+, 4+	4,6 %
	(2) Reflectance (reader)	2	Negative, <= 0,5 mmol/L	3,1 %
		>>> 40	1+, 2+	62 %
		> 12	3+, 4+	18 %
----- Total per sample: n = 65 -----		Success: 97 %		
Total success: 97 %				

**(264) Total protein**

A	(1) Visual	>>> 9	Negative, < 0,3 g/L	14 %
		2	0,3 - 0,5 g/L	3,1 %
	(2) Reflectance (reader)	>>> 51	Negative, < 0,3 g/L	78 %
		3	0,3 - 0,5 g/L	4,6 %
----- Total per sample: n = 65 -----		Success: 92 %		
B	(1) Visual	1	0,3 - 0,5 g/L	1,5 %
		>>> 5	0,51 - 2,5 g/L	7,7 %
		>>> 5	> 2,5 g/L	7,7 %
	(2) Reflectance (reader)	>>> 28	0,51 - 2,5 g/L	43 %
		>>> 26	> 2,5 g/L	40 %
----- Total per sample: n = 65 -----		Success: 98 %		
Total success: 91 %				

**(266) Urobilinogen**

A	(1) Visual	>>> 11	Negative, < 17 µmol/L	17 %
	(2) Reflectance (reader)	>>> 54	Negative, < 17 µmol/L	83 %
----- Total per sample: n = 65 -----		Success: 100 %		
B	(1) Visual	>>> 1	1+, 2+	1,5 %
		>>> 10	3+, 4+	15 %
	(2) Reflectance (reader)	>>> 25	1+, 2+	38 %
		>>> 29	3+, 4+	45 %
----- Total per sample: n = 65 -----		Success: 100 %		
Total success: 100 %				

**(268) Bilirubin**

A	(1) Visual	>>> 9	Negative	14 %
	(2) Reflectance (reader)	>>> 54	Negative	86 %
----- Total per sample: n = 63 -----		Success: 100 %		
B	(1) Visual	>>> 9	3+, 4+	14 %
	(2) Reflectance (reader)	> 4	1+, 2+	6,3 %
		>>> 50	3+, 4+	79 %
----- Total per sample: n = 63 -----		Success: 100 %		
Total success: 100 %				

**(270) WBC**

A	(1) Visual	>>> 3	Negative	5,7 %
	(2) Reflectance (reader)	>>> 48	Negative	91 %
		1	10 - 50 leu/µL	1,9 %
		1	51 - 250 leu/µL	1,9 %
----- Total per sample: n = 53 -----		Success: 96 %		
B	(1) Visual	> 1	10 - 50 leu/µL	1,9 %
		> 2	51 - 250 leu/µL	3,8 %
	(2) Reflectance (reader)	> 1	10 - 50 leu/µL	1,9 %
		> 15	51 - 250 leu/µL	28 %

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Test		N	Result	N <sub>rel</sub>
Sample	Group			
B	(2) Reflectance (reader)	>>> 30	> 250 leu/μL	57 %
	(2) Reflectance (reader); (223) Iris iChem Velocity	± 3	Negative	5,7 %
		± 1	10 - 50 leu/μL	1,9 %
Total per sample: n = 53		Success (only evaluated results): 100 %		
Total success (only evaluated tests): 96 %				

(272) Blood				
A	(1) Visual	>>> 10	Negative	16 %
	(2) Reflectance (reader)	>>> 53	Negative	83 %
		1	5 - 12 ery/μL	1,6 %
Total per sample: n = 64		Success: 98 %		
B	(1) Visual	>>> 10	> 50 ery/μL	16 %
	(2) Reflectance (reader)	> 2	13 - 50 ery/μL	3,1 %
		>>> 52	> 50 ery/μL	81 %
Total per sample: n = 64		Success: 100 %		
Total success: 98 %				

(273) pH				
A	(1) Visual	1	5,0	1,6 %
		> 1	5,5	1,6 %
		> 5	6,0	7,8 %
		>>> 1	6,5	1,6 %
		> 2	7,0	3,1 %
	(2) Reflectance (reader)	> 1	5,5	1,6 %
		> 11	6,0	17 %
		>>> 38	6,5	59 %
		> 4	7,0	6,3 %
Total per sample: n = 64		Success: 98 %		
B	(1) Visual	> 1	6,5	1,6 %
		>>> 8	7,0	13 %
		> 1	7,5	1,6 %
	(2) Reflectance (reader)	1	5,5	1,6 %
		> 1	6,0	1,6 %
		> 10	6,5	16 %
		>>> 36	7,0	56 %
		> 6	7,5	9,4 %
Total per sample: n = 64		Success: 98 %		
Total success: 97 %				

(274) Nitrite				
A	(1) Visual	>>> 3	Negative	5,5 %
	(2) Reflectance (reader)	>>> 52	Negative	95 %
Total per sample: n = 55		Success: 100 %		
B	(1) Visual	>>> 3	Positive	5,5 %
	(2) Reflectance (reader)	>>> 52	Positive	95 %
Total per sample: n = 55		Success: 100 %		
Total success: 100 %				

(275) hCG				
A	(1) Visual	>>> 6	Negative	86 %
	(2) Reflectance (reader)	>>> 1	Negative	14 %
Total per sample: n = 7		Success: 100 %		
B	(1) Visual	>>> 6	Positive	86 %
	(2) Reflectance (reader)	>>> 1	Positive	14 %
Total per sample: n = 7		Success: 100 %		
Total success: 100 %				