

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                     | >>> 10   | 11,1 - 28 mmol/L                | 3,1 %            |
|   |                                | >>> 34   | > 28 mmol/L                     | 11 %             |
|   | (2) Reflectance, refractometry | 1  | Negative, normal, <= 2,8 mmol/L | 0,31 %           |
|   |                                | 3  | 2,81 - 11 mmol/L                | 0,94 %           |
|   |                                | >>> 91   | 11,1 - 28 mmol/L                | 29 %             |
| ----- Total per sample: n = 319 ----- Success: 99 % |                                | >>> 180  | > 28 mmol/L                     | 56 %             |
| B   | (1) Visual                     | >>> 26   | Negative, normal, <= 2,8 mmol/L | 8,2 %            |
|   |                                | > 18   | 2,81 - 11 mmol/L                | 5,6 %            |
|   | (2) Reflectance, refractometry | >>> 219  | Negative, normal, <= 2,8 mmol/L | 69 %             |
|   |                                | > 56   | 2,81 - 11 mmol/L                | 18 %             |
|   |                                | ----- Total per sample: n = 319 ----- Success: 100 % |                                 |                  |
| Total success: 99 %                                 |                                |  |                                 |                  |

**(263) Ketone bodies**

|   |  |         |                         |        |
|---|--|---------|-------------------------|--------|
| A   | (1) Visual   | 1       | Negative, <= 0,5 mmol/L | 0,31 % |
|   |  | >>> 34  | 1+, 2+                  | 11 %   |
|   | >>> 9  | 3+, 4+  | 2,8 %                   |        |
|   | (2) Reflectance, refractometry                       | 9       | Negative, <= 0,5 mmol/L | 2,8 %  |
|   |  | >>> 173 | 1+, 2+                  | 54 %   |
| >>> 93  |  | 3+, 4+  | 29 %                    |        |
| ----- Total per sample: n = 319 ----- Success: 97 % |  |         |                         |        |
| B   | (1) Visual   | >>> 44  | Negative, <= 0,5 mmol/L | 14 %   |
|   | (2) Reflectance, refractometry                       | >>> 275 | Negative, <= 0,5 mmol/L | 86 %   |
|   | ----- Total per sample: n = 319 ----- Success: 100 % |         |                         |        |
| Total success: 97 %                                 |  |         |                         |        |

**(264) Total protein**

|   |                                |                |                     |        |
|---|--------------------------------|----------------|---------------------|--------|
| A   | (1) Visual                     | 1              | 0,3 - 0,5 g/L       | 0,31 % |
|   |                                | >>> 23         | 0,51 - 2,5 g/L      | 7,2 %  |
|   | >>> 20                         | > 2,5 g/L      | 6,3 %               |        |
|   | (2) Reflectance, refractometry | 1              | Negative, < 0,3 g/L | 0,31 % |
|   |                                | 15             | 0,3 - 0,5 g/L       | 4,7 %  |
| >>> 120   |                                | 0,51 - 2,5 g/L | 38 %                |        |
| ----- Total per sample: n = 319 ----- Success: 95 % |                                | >>> 139        | > 2,5 g/L           | 44 %   |
| B   | (1) Visual                     | >>> 43         | Negative, < 0,3 g/L | 13 %   |
|   |                                | 1              | 0,3 - 0,5 g/L       | 0,31 % |
|   | (2) Reflectance, refractometry | >>> 267        | Negative, < 0,3 g/L | 84 %   |
|   |                                | 8              | 0,3 - 0,5 g/L       | 2,5 %  |
| ----- Total per sample: n = 319 ----- Success: 97 % |                                |                |                     |        |
| Total success: 92 %                                 |                                |                |                     |        |

**(266) Urobilinogen**

|  |  |         |                       |        |
|--|--|---------|-----------------------|--------|
| A  | (1) Visual   | >>> 6   | 1+, 2+                | 1,9 %  |
|  |  | >>> 38  | 3+, 4+                | 12 %   |
|  | (2) Reflectance, refractometry                       | 1       | Negative, < 17 µmol/L | 0,31 % |
|  |  | >>> 135 | 1+, 2+                | 42 %   |
|  |  | >>> 139 | 3+, 4+                | 44 %   |
| ----- Total per sample: n = 319 ----- Success: 100 % |  |         |                       |        |
| B  | (1) Visual   | >>> 44  | Negative, < 17 µmol/L | 14 %   |
|  | (2) Reflectance, refractometry                       | >>> 275 | Negative, < 17 µmol/L | 86 %   |
|  | ----- Total per sample: n = 319 ----- Success: 100 % |         |                       |        |
| Total success: 100 %                                 |  |         |                       |        |

**(268) Bilirubin**

|  |  |         |          |       |
|--|--|---------|----------|-------|
| A  | (1) Visual   | >>> 37  | 3+, 4+   | 12 %  |
|  | (2) Reflectance, refractometry                       | > 17    | 1+, 2+   | 5,4 % |
|  |  | >>> 258 | 3+, 4+   | 83 %  |
| ----- Total per sample: n = 312 ----- Success: 100 % |  |         |          |       |
| B  | (1) Visual   | >>> 37  | Negative | 12 %  |
|  | (2) Reflectance, refractometry                       | >>> 275 | Negative | 88 %  |
|  | ----- Total per sample: n = 312 ----- Success: 100 % |         |          |       |
| Total success: 100 %                                 |  |         |          |       |

**(270) WBC**

|   |            |       |                 |        |
|---|------------|-------|-----------------|--------|
| A | (1) Visual | > 1   | 10 - 50 leu/µL  | 0,37 % |
|   |            | >>> 5 | 51 - 250 leu/µL | 1,8 %  |

## Summary statistics - qualitative results

(Groups: measurement principle)

## EQA round: DGP3/17 - Urine Strip Tests Analysis

Dead line: 01.12.2017

## Test

| Sample   | Group  | N  | Result          | N <sub>rel</sub> |
|--|--|--|-----------------|------------------|
| A  | (1) Visual   | >>> 6  | > 250 leu/μL    | 2,2 %            |
|  | (2) Reflectance, refractometry                               | 3  | Negative        | 1,1 %            |
|  |  | > 13   | 10 - 50 leu/μL  | 4,8 %            |
|  |  | >>> 96   | 51 - 250 leu/μL | 35 %             |
|  |  | >>> 138  | > 250 leu/μL    | 51 %             |
|  | (2) Reflectance, refractometry; (223) Iris<br>iChem Velocity | ± 8  | Negative        | 2,9 %            |
|  |  | ± 1  | 10 - 50 leu/μL  | 0,37 %           |
|  |  | ± 2  | 51 - 250 leu/μL | 0,73 %           |
|  |  | ----- Total per sample: n = 273 ----- Success (only evaluated results): 99 % ----- |                 |                  |
|  | B  | (1) Visual   | >>> 12          | Negative         |
| (2) Reflectance, refractometry                             |  | >>> 261  | Negative        | 96 %             |
| ----- Total per sample: n = 273 ----- Success: 100 % ----- |  |  |                 |                  |
| Total success (only evaluated tests): 99 %                 |  |  |                 |                  |

**(272) Blood**

|   |                                |         |                |        |
|---|--------------------------------|---------|----------------|--------|
| A   | (1) Visual                     | > 1     | 13 - 50 ery/μL | 0,31 % |
|   |                                | >>> 43  | > 50 ery/μL    | 13 %   |
|   | (2) Reflectance, refractometry | 4       | 5 - 12 ery/μL  | 1,3 %  |
|   |                                | > 24    | 13 - 50 ery/μL | 7,5 %  |
|   |                                | >>> 247 | > 50 ery/μL    | 77 %   |
| ----- Total per sample: n = 319 ----- Success: 99 % ----- |                                |         |                |        |
| B   | (1) Visual                     | >>> 43  | Negative       | 13 %   |
|   |                                | 1       | 5 - 12 ery/μL  | 0,31 % |
|   | (2) Reflectance, refractometry | >>> 270 | Negative       | 85 %   |
|   |                                | 5       | 5 - 12 ery/μL  | 1,6 %  |
| ----- Total per sample: n = 319 ----- Success: 98 % ----- |                                |         |                |        |
| Total success: 97 %                                       |                                |         |                |        |

**(273) pH**

|  |                                |   |            |        |     |       |
|--|--------------------------------|---|------------|--------|-----|-------|
| A  | (1) Visual                     | > 1   | 5,5        | 0,31 % |     |       |
|  |                                | > 3   | 6,0        | 0,94 % |     |       |
|  |                                | >>> 4   | 6,5        | 1,3 %  |     |       |
|  |                                | >>> 34  | 7,0        | 11 %   |     |       |
|  |                                | > 2   | 7,5        | 0,63 % |     |       |
|  | (2) Reflectance, refractometry | > 6   | 6,0        | 1,9 %  |     |       |
|  |                                | >>> 76  | 6,5        | 24 %   |     |       |
|  |                                | >>> 186   | 7,0        | 58 %   |     |       |
|  |                                | > 5   | 7,5        | 1,6 %  |     |       |
|  |                                | 1   | 8,5        | 0,31 % |     |       |
|  |                                | 1   | 9,0        | 0,31 % |     |       |
|  |                                | ----- Total per sample: n = 319 ----- Success: 99 % ----- |            |        |     |       |
|  |                                | B   | (1) Visual | > 5    | 5,0 | 1,6 % |
| > 2  | 5,5                            |   |            | 0,63 % |     |       |
| >>> 27   | 6,0                            |   |            | 8,5 %  |     |       |
| >>> 9  | 6,5                            |   |            | 2,8 %  |     |       |
| > 1  | 7,0                            |   |            | 0,31 % |     |       |
| (2) Reflectance, refractometry                             | > 3                            |   | 5,0        | 0,94 % |     |       |
|  | > 4                            |   | 5,5        | 1,3 %  |     |       |
|  | >>> 57                         |   | 6,0        | 18 %   |     |       |
|  | >>> 192                        |   | 6,5        | 60 %   |     |       |
|  | > 19                           |   | 7,0        | 6,0 %  |     |       |
| ----- Total per sample: n = 319 ----- Success: 100 % ----- |                                |   |            |        |     |       |
| Total success: 99 %  |                                |   |            |        |     |       |

**(274) Nitrite**

|   |  |         |          |        |
|---|--|---------|----------|--------|
| A   | (1) Visual   | >>> 13  | Positive | 4,7 %  |
|   | (2) Reflectance, refractometry                             | 2       | Negative | 0,72 % |
|   |  | >>> 261 | Positive | 95 %   |
| ----- Total per sample: n = 276 ----- Success: 99 % ----- |  |         |          |        |
| B   | (1) Visual   | >>> 13  | Negative | 4,7 %  |
|   | (2) Reflectance, refractometry                             | >>> 263 | Negative | 95 %   |
|   | ----- Total per sample: n = 276 ----- Success: 100 % ----- |         |          |        |
| Total success: 99 %                                       |  |         |          |        |

**(275) hCG**

|  |                                |        |               |       |
|--|--------------------------------|--------|---------------|-------|
| A  | (1) Visual                     | >>> 14 | Positive      | 78 %  |
|  |                                | 1      | Not specified | 5,6 % |
|  | (2) Reflectance, refractometry | 1      | Negative      | 5,6 % |
|  |                                | >>> 2  | Positive      | 11 %  |
| ----- Total per sample: n = 18 ----- Success: 89 % ----- |                                |        |               |       |

## Summary statistics - qualitative results

(Groups: measurement principle)

## EQA round: DGP3/17 - Urine Strip Tests Analysis

Dead line: 01.12.2017

| Test                     |                                |     | N             | Result   | N <sub>rel</sub> |
|--------------------------|--------------------------------|-----|---------------|----------|------------------|
| Sample                   | Group                          |     |               |          |                  |
| B                        | (1) Visual                     | >>> | 13            | Negative | 72 %             |
|                          |                                |     | 1             | Positive | 5,6 %            |
|                          | (2) Reflectance, refractometry | >>> | 4             | Negative | 22 %             |
|                          |                                |     |               |          |                  |
| Total per sample: n = 18 |                                |     | Success: 94 % |          |                  |
| Total success: 83 %      |                                |     |               |          |                  |

**(276) Specific gravity**

|                           |                                |     |                                   |               |        |
|---------------------------|--------------------------------|-----|-----------------------------------|---------------|--------|
| A                         | (0) Not specified              | ±   | 1                                 | 1,025         | 0,38 % |
|                           |                                |     |                                   |               |        |
|                           | (1) Visual                     | ±   | 1                                 | 1,005         | 0,38 % |
|                           |                                | ±   | 2                                 | 1,010         | 0,77 % |
|                           |                                | ±   | 2                                 | 1,015         | 0,77 % |
|                           |                                | ±   | 1                                 | 1,020         | 0,38 % |
|                           |                                |     |                                   |               |        |
|                           | (2) Reflectance, refractometry | ±   | 1                                 | Not specified | 0,38 % |
|                           |                                | ±   | 13                                | 1,005         | 5,0 %  |
|                           |                                | ±   | 21                                | 1,010         | 8,0 %  |
|                           |                                | ±   | 31                                | 1,015         | 12 %   |
|                           |                                | ±   | 124                               | 1,020         | 48 %   |
|                           |                                | ±   | 58                                | 1,025         | 22 %   |
|                           | ±                              | 6   | 1,030                             | 2,3 %         |        |
| Total per sample: n = 261 |                                |     | Success (only evaluated results): | evaluation    |        |
| B                         | (0) Not specified              | >>> | 1                                 | 1,010         | 0,38 % |
|                           |                                |     |                                   |               |        |
|                           | (1) Visual                     |     | 1                                 | 1,000         | 0,38 % |
|                           |                                | >   | 1                                 | 1,005         | 0,38 % |
|                           |                                | >>> | 3                                 | 1,010         | 1,1 %  |
|                           | (2) Reflectance, refractometry |     | 1                                 | 1,020         | 0,38 % |
|                           |                                |     | 4                                 | 1,000         | 1,5 %  |
|                           |                                | >   | 61                                | 1,005         | 23 %   |
| >>>                       |                                | 155 | 1,010                             | 59 %          |        |
|                           | >                              | 30  | 1,015                             | 11 %          |        |
|                           |                                | 4   | 1,020                             | 1,5 %         |        |
| Total per sample: n = 261 |                                |     | Success: 96 %                     |               |        |

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End of report

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