

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: DGP2/21 - Urine Strip Tests Analysis

Deadline: 21.05.2021

|      |   |   |
|------|---|---|
| Key: | >>> ... marks correct (expected) result               | N ... number of the results             |
|      | > ... marks conditionally correct (acceptable) result | Nrel ... relative number of the results |
|      | ± ... marks the result not evaluated                  |   |

## Test

| Sample                               | Group                      | N             | Result                          | N <sub>rel</sub> |
|--------------------------------------|----------------------------|---------------|---------------------------------|------------------|
| <b>(261) Glucose</b>                 |                            |               |                                 |                  |
| A                                    | (5) Dialab                 | >>> 1         | > 28 mmol/L                     | 1,7 %            |
|                                      | (12) Beckman Coulter       | > 1           | 11,1 - 28 mmol/L                | 1,7 %            |
|                                      |                            | >>> 3         | > 28 mmol/L                     | 5,1 %            |
|                                      | (46) Erba Lachema          | > 7           | 11,1 - 28 mmol/L                | 12 %             |
|                                      |                            | >>> 5         | > 28 mmol/L                     | 8,5 %            |
|                                      | (60) Roche                 | >>> 1         | > 28 mmol/L                     | 1,7 %            |
|                                      | (63) Sysmex                | > 1           | 11,1 - 28 mmol/L                | 1,7 %            |
|                                      |                            | >>> 1         | > 28 mmol/L                     | 1,7 %            |
|                                      | (109) Axis-Shield          | 1             | 2,81 - 11 mmol/L                | 1,7 %            |
|                                      |                            | >>> 1         | > 28 mmol/L                     | 1,7 %            |
|                                      | (150) Arkray               | > 4           | 11,1 - 28 mmol/L                | 6,8 %            |
|                                      |                            | >>> 6         | > 28 mmol/L                     | 10 %             |
|                                      | (179) Siemens              | > 4           | 11,1 - 28 mmol/L                | 6,8 %            |
|                                      | (201) Iris Diagnostics     | > 1           | 11,1 - 28 mmol/L                | 1,7 %            |
|                                      |                            | >>> 2         | > 28 mmol/L                     | 3,4 %            |
|                                      | (202) Dirui                | 1             | Negative, normal, <= 2,8 mmol/L | 1,7 %            |
|                                      |                            | > 3           | 11,1 - 28 mmol/L                | 5,1 %            |
|                                      |                            | >>> 11        | > 28 mmol/L                     | 19 %             |
|                                      | (207) 77 Elektronika Kft.  | >>> 2         | > 28 mmol/L                     | 3,4 %            |
|                                      | (999) another manufacturer | >>> 3         | > 28 mmol/L                     | 5,1 %            |
| ----- Total per sample: n = 59 ----- |                            | Success: 97 % |                                 |                  |
| B                                    | (5) Dialab                 | >>> 1         | Negative, normal, <= 2,8 mmol/L | 1,7 %            |
|                                      | (12) Beckman Coulter       | >>> 4         | Negative, normal, <= 2,8 mmol/L | 6,8 %            |
|                                      | (46) Erba Lachema          | >>> 9         | Negative, normal, <= 2,8 mmol/L | 15 %             |
|                                      |                            | 3             | 2,81 - 11 mmol/L                | 5,1 %            |
|                                      | (60) Roche                 | >>> 1         | Negative, normal, <= 2,8 mmol/L | 1,7 %            |
|                                      | (63) Sysmex                | >>> 1         | Negative, normal, <= 2,8 mmol/L | 1,7 %            |
|                                      |                            | 1             | 2,81 - 11 mmol/L                | 1,7 %            |
|                                      | (109) Axis-Shield          | >>> 2         | Negative, normal, <= 2,8 mmol/L | 3,4 %            |
|                                      | (150) Arkray               | >>> 10        | Negative, normal, <= 2,8 mmol/L | 17 %             |
|                                      | (179) Siemens              | >>> 4         | Negative, normal, <= 2,8 mmol/L | 6,8 %            |
|                                      | (201) Iris Diagnostics     | >>> 3         | Negative, normal, <= 2,8 mmol/L | 5,1 %            |
|                                      | (202) Dirui                | >>> 13        | Negative, normal, <= 2,8 mmol/L | 22 %             |
|                                      |                            | 1             | 2,81 - 11 mmol/L                | 1,7 %            |
|                                      |                            | 1             | 11,1 - 28 mmol/L                | 1,7 %            |
|                                      | (207) 77 Elektronika Kft.  | >>> 2         | Negative, normal, <= 2,8 mmol/L | 3,4 %            |
|                                      | (999) another manufacturer | 3             | 2,81 - 11 mmol/L                | 5,1 %            |
| ----- Total per sample: n = 59 ----- |                            | Success: 85 % |                                 |                  |
| Total success: 83 %                  |                            |               |                                 |                  |

**(263) Ketone bodies**

|                                      |                            |               |                         |       |
|--------------------------------------|----------------------------|---------------|-------------------------|-------|
| A                                    | (5) Dialab                 | 1             | Negative, <= 0,5 mmol/L | 1,7 % |
|                                      | (12) Beckman Coulter       | 1             | Negative, <= 0,5 mmol/L | 1,7 % |
|                                      |                            | >>> 3         | 1+, 2+                  | 5,1 % |
|                                      | (46) Erba Lachema          | >>> 8         | 1+, 2+                  | 14 %  |
|                                      |                            | > 4           | 3+, 4+                  | 6,8 % |
|                                      | (60) Roche                 | > 1           | 3+, 4+                  | 1,7 % |
|                                      | (63) Sysmex                | 1             | Negative, <= 0,5 mmol/L | 1,7 % |
|                                      |                            | >>> 1         | 1+, 2+                  | 1,7 % |
|                                      | (109) Axis-Shield          | >>> 2         | 1+, 2+                  | 3,4 % |
|                                      | (150) Arkray               | >>> 1         | 1+, 2+                  | 1,7 % |
|                                      |                            | > 9           | 3+, 4+                  | 15 %  |
|                                      | (179) Siemens              | >>> 3         | 1+, 2+                  | 5,1 % |
|                                      |                            | > 1           | 3+, 4+                  | 1,7 % |
|                                      | (201) Iris Diagnostics     | >>> 2         | 1+, 2+                  | 3,4 % |
|                                      |                            | > 1           | 3+, 4+                  | 1,7 % |
|                                      | (202) Dirui                | 1             | Negative, <= 0,5 mmol/L | 1,7 % |
|                                      |                            | >>> 11        | 1+, 2+                  | 19 %  |
|                                      |                            | > 3           | 3+, 4+                  | 5,1 % |
|                                      | (207) 77 Elektronika Kft.  | >>> 2         | 1+, 2+                  | 3,4 % |
|                                      | (999) another manufacturer | >>> 3         | 1+, 2+                  | 5,1 % |
| ----- Total per sample: n = 59 ----- |                            | Success: 93 % |                         |       |
| B                                    | (5) Dialab                 | >>> 1         | Negative, <= 0,5 mmol/L | 1,7 % |
|                                      | (12) Beckman Coulter       | >>> 4         | Negative, <= 0,5 mmol/L | 6,8 % |
|                                      | (46) Erba Lachema          | >>> 12        | Negative, <= 0,5 mmol/L | 20 %  |
|                                      | (60) Roche                 | >>> 1         | Negative, <= 0,5 mmol/L | 1,7 % |

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: DGP2/21 - Urine Strip Tests Analysis

Deadline: 21.05.2021

| Test                | Sample                     | Group | N             | Result                  | N <sub>rel</sub> |       |
|---------------------|----------------------------|-------|---------------|-------------------------|------------------|-------|
| B                   | (63) Sysmex                | >>>   | 2             | Negative, <= 0,5 mmol/L | 3,4 %            |       |
|                     | (109) Axis-Shield          | >>>   | 2             | Negative, <= 0,5 mmol/L | 3,4 %            |       |
|                     | (150) Arkray               | >>>   | 10            | Negative, <= 0,5 mmol/L | 17 %             |       |
|                     | (179) Siemens              | >>>   | 4             | Negative, <= 0,5 mmol/L | 6,8 %            |       |
|                     | (201) Iris Diagnostics     | >>>   | 3             | Negative, <= 0,5 mmol/L | 5,1 %            |       |
|                     | (202) Dirui                | >>>   | 14            | Negative, <= 0,5 mmol/L | 24 %             |       |
|                     |                            |       |               | 1                       | 1+, 2+           | 1,7 % |
|                     | (207) 77 Elektronika Kft.  | >>>   | 2             | Negative, <= 0,5 mmol/L | 3,4 %            |       |
|                     | (999) another manufacturer | >>>   | 3             | Negative, <= 0,5 mmol/L | 5,1 %            |       |
|                     | Total per sample: n = 59   |       | Success: 98 % |                         |                  |       |
| Total success: 93 % |                            |       |               |                         |                  |       |

## (264) Total protein

|                            |                            |               |                |                     |       |
|----------------------------|----------------------------|---------------|----------------|---------------------|-------|
| A                          | (5) Dialab                 | >>>           | 1              | > 2,5 g/L           | 1,7 % |
|                            | (12) Beckman Coulter       | >             | 1              | 0,3 - 0,5 g/L       | 1,7 % |
|                            |                            | >>>           | 2              | 0,51 - 2,5 g/L      | 3,4 % |
|                            |                            | >>>           | 1              | > 2,5 g/L           | 1,7 % |
|                            | (46) Erba Lachema          | >>>           | 8              | 0,51 - 2,5 g/L      | 14 %  |
|                            |                            | >>>           | 4              | > 2,5 g/L           | 6,8 % |
|                            | (60) Roche                 | >>>           | 1              | > 2,5 g/L           | 1,7 % |
|                            | (63) Sysmex                | >>>           | 2              | 0,51 - 2,5 g/L      | 3,4 % |
|                            | (109) Axis-Shield          | >>>           | 2              | > 2,5 g/L           | 3,4 % |
|                            | (150) Arkray               | >             | 2              | 0,3 - 0,5 g/L       | 3,4 % |
|                            |                            | >>>           | 7              | 0,51 - 2,5 g/L      | 12 %  |
|                            |                            | >>>           | 1              | > 2,5 g/L           | 1,7 % |
|                            | (179) Siemens              | >>>           | 1              | 0,51 - 2,5 g/L      | 1,7 % |
|                            |                            | >>>           | 3              | > 2,5 g/L           | 5,1 % |
|                            | (201) Iris Diagnostics     | >>>           | 1              | 0,51 - 2,5 g/L      | 1,7 % |
|                            |                            | >>>           | 2              | > 2,5 g/L           | 3,4 % |
|                            | (202) Dirui                |               | 1              | Negative, < 0,3 g/L | 1,7 % |
|                            |                            | >>>           | 7              | 0,51 - 2,5 g/L      | 12 %  |
|                            |                            | >>>           | 7              | > 2,5 g/L           | 12 %  |
|                            | (207) 77 Elektronika Kft.  |               | 1              | Negative, < 0,3 g/L | 1,7 % |
|                            | >                          | 1             | 0,3 - 0,5 g/L  | 1,7 %               |       |
| (999) another manufacturer | >>>                        | 1             | 0,51 - 2,5 g/L | 1,7 %               |       |
|                            | >>>                        | 2             | > 2,5 g/L      | 3,4 %               |       |
| Total per sample: n = 59   |                            | Success: 97 % |                |                     |       |
| B                          | (5) Dialab                 | >>>           | 1              | Negative, < 0,3 g/L | 1,7 % |
|                            | (12) Beckman Coulter       | >>>           | 4              | Negative, < 0,3 g/L | 6,8 % |
|                            | (46) Erba Lachema          | >>>           | 12             | Negative, < 0,3 g/L | 20 %  |
|                            | (60) Roche                 | >>>           | 1              | Negative, < 0,3 g/L | 1,7 % |
|                            | (63) Sysmex                | >>>           | 2              | Negative, < 0,3 g/L | 3,4 % |
|                            | (109) Axis-Shield          | >>>           | 2              | Negative, < 0,3 g/L | 3,4 % |
|                            | (150) Arkray               | >>>           | 10             | Negative, < 0,3 g/L | 17 %  |
|                            | (179) Siemens              | >>>           | 4              | Negative, < 0,3 g/L | 6,8 % |
|                            | (201) Iris Diagnostics     | >>>           | 3              | Negative, < 0,3 g/L | 5,1 % |
|                            | (202) Dirui                | >>>           | 14             | Negative, < 0,3 g/L | 24 %  |
|                            |                            |               | 1              | > 2,5 g/L           | 1,7 % |
|                            | (207) 77 Elektronika Kft.  | >>>           | 2              | Negative, < 0,3 g/L | 3,4 % |
|                            | (999) another manufacturer | >>>           | 3              | Negative, < 0,3 g/L | 5,1 % |
| Total per sample: n = 59   |                            | Success: 98 % |                |                     |       |
| Total success: 97 %        |                            |               |                |                     |       |

## (266) Urobilinogen

|   |                        |     |    |                       |       |
|---|------------------------|-----|----|-----------------------|-------|
| A | (5) Dialab             | >>> | 1  | 3+, 4+                | 1,7 % |
|   | (12) Beckman Coulter   |     | 1  | Negative, < 17 µmol/L | 1,7 % |
|   |                        | >>> | 3  | 3+, 4+                | 5,1 % |
|   | (46) Erba Lachema      | >   | 1  | 1+, 2+                | 1,7 % |
|   |                        | >>> | 11 | 3+, 4+                | 19 %  |
|   | (60) Roche             | >>> | 1  | 3+, 4+                | 1,7 % |
|   | (63) Sysmex            | >   | 1  | 1+, 2+                | 1,7 % |
|   |                        | >>> | 1  | 3+, 4+                | 1,7 % |
|   | (109) Axis-Shield      | >>> | 2  | 3+, 4+                | 3,4 % |
|   | (150) Arkray           | >   | 10 | 1+, 2+                | 17 %  |
|   | (179) Siemens          | >   | 1  | 1+, 2+                | 1,7 % |
|   |                        | >>> | 3  | 3+, 4+                | 5,1 % |
|   | (201) Iris Diagnostics | >>> | 3  | 3+, 4+                | 5,1 % |
|   | (202) Dirui            |     | 1  | Negative, < 17 µmol/L | 1,7 % |
|   |                        | >   | 10 | 1+, 2+                | 17 %  |
|   |                        | >>> | 4  | 3+, 4+                | 6,8 % |

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: DGP2/21 - Urine Strip Tests Analysis

Deadline: 21.05.2021

| Test                | Sample                     | Group | N             | Result                | N <sub>rel</sub> |       |
|---------------------|----------------------------|-------|---------------|-----------------------|------------------|-------|
| A                   | (207) 77 Elektronika Kft.  | >>>   | 2             | 3+, 4+                | 3,4 %            |       |
|                     | (999) another manufacturer | >>>   | 3             | 3+, 4+                | 5,1 %            |       |
|                     | Total per sample: n = 59   |       | Success: 97 % |                       |                  |       |
| B                   | (5) Dialab                 | >>>   | 1             | Negative, < 17 µmol/L | 1,7 %            |       |
|                     | (12) Beckman Coulter       | >>>   | 4             | Negative, < 17 µmol/L | 6,8 %            |       |
|                     | (46) Erba Lachema          | >>>   | 12            | Negative, < 17 µmol/L | 20 %             |       |
|                     | (60) Roche                 | >>>   | 1             | Negative, < 17 µmol/L | 1,7 %            |       |
|                     | (63) Sysmex                | >>>   | 2             | Negative, < 17 µmol/L | 3,4 %            |       |
|                     | (109) Axis-Shield          | >>>   | 2             | Negative, < 17 µmol/L | 3,4 %            |       |
|                     | (150) Arkray               | >>>   | 10            | Negative, < 17 µmol/L | 17 %             |       |
|                     | (179) Siemens              | >>>   | 4             | Negative, < 17 µmol/L | 6,8 %            |       |
|                     | (201) Iris Diagnostics     | >>>   | 3             | Negative, < 17 µmol/L | 5,1 %            |       |
|                     | (202) Dirui                | >>>   | 14            | Negative, < 17 µmol/L | 24 %             |       |
|                     |                            |       |               | 1                     | 1+, 2+           | 1,7 % |
|                     | (207) 77 Elektronika Kft.  | >>>   | 2             | Negative, < 17 µmol/L | 3,4 %            |       |
|                     | (999) another manufacturer | >>>   | 3             | Negative, < 17 µmol/L | 5,1 %            |       |
|                     | Total per sample: n = 59   |       | Success: 98 % |                       |                  |       |
| Total success: 97 % |                            |       |               |                       |                  |       |

## (268) Bilirubin

|                          |                            |               |               |          |          |       |
|--------------------------|----------------------------|---------------|---------------|----------|----------|-------|
| A                        | (5) Dialab                 | >>>           | 1             | 3+, 4+   | 1,7 %    |       |
|                          | (12) Beckman Coulter       | >             | 4             | 1+, 2+   | 6,9 %    |       |
|                          | (46) Erba Lachema          | >>>           | 11            | 3+, 4+   | 19 %     |       |
|                          | (60) Roche                 | >>>           | 1             | 3+, 4+   | 1,7 %    |       |
|                          | (63) Sysmex                | >>>           | 2             | 3+, 4+   | 3,4 %    |       |
|                          | (109) Axis-Shield          | >>>           | 2             | 3+, 4+   | 3,4 %    |       |
|                          | (150) Arkray               | >>>           | 10            | 3+, 4+   | 17 %     |       |
|                          | (179) Siemens              | >>>           | 4             | 3+, 4+   | 6,9 %    |       |
|                          | (201) Iris Diagnostics     | >             | 1             | 1+, 2+   | 1,7 %    |       |
|                          |                            |               | >>>           | 2        | 3+, 4+   | 3,4 % |
|                          | (202) Dirui                |               |               | 1        | Negative | 1,7 % |
|                          |                            |               | >>>           | 14       | 3+, 4+   | 24 %  |
|                          | (207) 77 Elektronika Kft.  | >>>           | 2             | 3+, 4+   | 3,4 %    |       |
|                          | (999) another manufacturer | >>>           | 3             | 3+, 4+   | 5,2 %    |       |
| Total per sample: n = 58 |                            | Success: 98 % |               |          |          |       |
| B                        | (5) Dialab                 | >>>           | 1             | Negative | 1,7 %    |       |
|                          | (12) Beckman Coulter       | >>>           | 4             | Negative | 6,9 %    |       |
|                          | (46) Erba Lachema          | >>>           | 11            | Negative | 19 %     |       |
|                          | (60) Roche                 | >>>           | 1             | Negative | 1,7 %    |       |
|                          | (63) Sysmex                | >>>           | 2             | Negative | 3,4 %    |       |
|                          | (109) Axis-Shield          | >>>           | 2             | Negative | 3,4 %    |       |
|                          | (150) Arkray               | >>>           | 10            | Negative | 17 %     |       |
|                          | (179) Siemens              | >>>           | 4             | Negative | 6,9 %    |       |
|                          | (201) Iris Diagnostics     | >>>           | 3             | Negative | 5,2 %    |       |
|                          | (202) Dirui                | >>>           | 14            | Negative | 24 %     |       |
|                          |                            |               |               | 1        | 3+, 4+   | 1,7 % |
|                          | (207) 77 Elektronika Kft.  | >>>           | 2             | Negative | 3,4 %    |       |
|                          | (999) another manufacturer | >>>           | 3             | Negative | 5,2 %    |       |
|                          | Total per sample: n = 58   |               | Success: 98 % |          |          |       |
| Total success: 98 %      |                            |               |               |          |          |       |

## (270) WBC

|   |                        |     |     |                 |                 |       |
|---|------------------------|-----|-----|-----------------|-----------------|-------|
| A | (5) Dialab             | >>> | 1   | > 250 leu/µL    | 1,9 %           |       |
|   | (12) Beckman Coulter   |     | 4   | Negative        | 7,5 %           |       |
|   | (46) Erba Lachema      | >>> | 1   | 51 - 250 leu/µL | 1,9 %           |       |
|   |                        |     | >>> | 7               | > 250 leu/µL    | 13 %  |
|   | (60) Roche             | >>> | 1   | 51 - 250 leu/µL | 1,9 %           |       |
|   | (63) Sysmex            |     | 1   | Negative        | 1,9 %           |       |
|   |                        |     | >>> | 1               | 51 - 250 leu/µL | 1,9 % |
|   | (109) Axis-Shield      | >>> | 2   | > 250 leu/µL    | 3,8 %           |       |
|   | (150) Arkray           | >>> | 2   | 51 - 250 leu/µL | 3,8 %           |       |
|   |                        |     | >>> | 8               | > 250 leu/µL    | 15 %  |
|   | (179) Siemens          | >>> | 1   | 51 - 250 leu/µL | 1,9 %           |       |
|   |                        |     | >>> | 3               | > 250 leu/µL    | 5,7 % |
|   | (201) Iris Diagnostics |     | 1   | Negative        | 1,9 %           |       |
|   |                        |     | >   | 1               | 10 - 50 leu/µL  | 1,9 % |
|   | (202) Dirui            | >>> | 1   | 51 - 250 leu/µL | 1,9 %           |       |
|   |                        |     |     | 1               | Negative        | 1,9 % |
|   |                        |     | >   | 1               | 10 - 50 leu/µL  | 1,9 % |
|   |                        | >>> | 10  | 51 - 250 leu/µL | 19 %            |       |

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: DGP2/21 - Urine Strip Tests Analysis

Deadline: 21.05.2021

| Test                     |                            | N             | Result            | N <sub>rel</sub> |
|--------------------------|----------------------------|---------------|-------------------|------------------|
| Sample                   | Group                      |               |                   |                  |
| A                        | (202) Dirui                | >>>           | 1 > 250 leu/μL    | 1,9 %            |
|                          | (207) 77 Elektronika Kft.  | >>>           | 2 > 250 leu/μL    | 3,8 %            |
|                          | (999) another manufacturer |               | 1 Negative        | 1,9 %            |
|                          |                            | >>>           | 1 51 - 250 leu/μL | 1,9 %            |
|                          |                            | >>>           | 1 > 250 leu/μL    | 1,9 %            |
| Total per sample: n = 53 |                            | Success: 85 % |                   |                  |
| B                        | (5) Dialab                 | >>>           | 1 Negative        | 1,9 %            |
|                          | (12) Beckman Coulter       | >>>           | 4 Negative        | 7,5 %            |
|                          | (46) Erba Lachema          | >>>           | 8 Negative        | 15 %             |
|                          | (60) Roche                 | >>>           | 1 Negative        | 1,9 %            |
|                          | (63) Sysmex                | >>>           | 2 Negative        | 3,8 %            |
|                          | (109) Axis-Shield          | >>>           | 2 Negative        | 3,8 %            |
|                          | (150) Arkray               | >>>           | 10 Negative       | 19 %             |
|                          | (179) Siemens              | >>>           | 4 Negative        | 7,5 %            |
|                          | (201) Iris Diagnostics     | >>>           | 3 Negative        | 5,7 %            |
|                          | (202) Dirui                | >>>           | 12 Negative       | 23 %             |
|                          |                            |               | 1 51 - 250 leu/μL | 1,9 %            |
|                          | (207) 77 Elektronika Kft.  | >>>           | 2 Negative        | 3,8 %            |
|                          | (999) another manufacturer | >>>           | 3 Negative        | 5,7 %            |
| Total per sample: n = 53 |                            | Success: 98 % |                   |                  |
| Total success: 85 %      |                            |               |                   |                  |

## (272) Blood

|                            |                           |                |                  |       |
|----------------------------|---------------------------|----------------|------------------|-------|
| A                          | (5) Dialab                | >>>            | 1 > 50 ery/μL    | 1,7 % |
|                            | (12) Beckman Coulter      | >              | 2 13 - 50 ery/μL | 3,4 % |
|                            |                           | >>>            | 2 > 50 ery/μL    | 3,4 % |
|                            | (46) Erba Lachema         | >>>            | 12 > 50 ery/μL   | 20 %  |
|                            | (60) Roche                | >>>            | 1 > 50 ery/μL    | 1,7 % |
|                            | (63) Sysmex               | >>>            | 2 > 50 ery/μL    | 3,4 % |
|                            | (109) Axis-Shield         | >>>            | 2 > 50 ery/μL    | 3,4 % |
|                            | (150) Arkray              | >              | 3 13 - 50 ery/μL | 5,1 % |
|                            |                           | >>>            | 7 > 50 ery/μL    | 12 %  |
|                            | (179) Siemens             | >>>            | 4 > 50 ery/μL    | 6,8 % |
|                            | (201) Iris Diagnostics    | >>>            | 3 > 50 ery/μL    | 5,1 % |
|                            | (202) Dirui               |                | 1 Negative       | 1,7 % |
|                            |                           | >              | 1 13 - 50 ery/μL | 1,7 % |
|                            | >>>                       | 13 > 50 ery/μL | 22 %             |       |
| (207) 77 Elektronika Kft.  | >>>                       | 2 > 50 ery/μL  | 3,4 %            |       |
| (999) another manufacturer | >>>                       | 3 > 50 ery/μL  | 5,1 %            |       |
| Total per sample: n = 59   |                           | Success: 98 %  |                  |       |
| B                          | (5) Dialab                | >>>            | 1 Negative       | 1,7 % |
|                            | (12) Beckman Coulter      | >>>            | 3 Negative       | 5,1 % |
|                            |                           |                | 1 5 - 12 ery/μL  | 1,7 % |
|                            | (46) Erba Lachema         | >>>            | 12 Negative      | 20 %  |
|                            | (60) Roche                | >>>            | 1 Negative       | 1,7 % |
|                            | (63) Sysmex               | >>>            | 2 Negative       | 3,4 % |
|                            | (109) Axis-Shield         | >>>            | 2 Negative       | 3,4 % |
|                            | (150) Arkray              | >>>            | 10 Negative      | 17 %  |
|                            | (179) Siemens             | >>>            | 4 Negative       | 6,8 % |
|                            | (201) Iris Diagnostics    | >>>            | 3 Negative       | 5,1 % |
|                            | (202) Dirui               | >>>            | 14 Negative      | 24 %  |
|                            |                           |                | 1 > 50 ery/μL    | 1,7 % |
|                            | (207) 77 Elektronika Kft. | >>>            | 2 Negative       | 3,4 % |
| (999) another manufacturer | >>>                       | 3 Negative     | 5,1 %            |       |
| Total per sample: n = 59   |                           | Success: 97 %  |                  |       |
| Total success: 97 %        |                           |                |                  |       |

## (273) pH

|   |                      |     |       |       |
|---|----------------------|-----|-------|-------|
| A | (5) Dialab           | >>> | 1 7,0 | 1,7 % |
|   | (12) Beckman Coulter | >   | 2 6,5 | 3,4 % |
|   |                      | >>> | 2 7,0 | 3,4 % |
|   | (46) Erba Lachema    | >   | 2 6,5 | 3,4 % |
|   |                      | >>> | 9 7,0 | 15 %  |
|   |                      | >   | 1 8,0 | 1,7 % |
|   | (60) Roche           | >>> | 1 7,0 | 1,7 % |
|   | (63) Sysmex          | >   | 2 7,5 | 3,4 % |
|   | (109) Axis-Shield    | >>> | 2 7,0 | 3,4 % |
|   | (150) Arkray         | >>> | 3 7,0 | 5,1 % |
|   |                      | >   | 7 7,5 | 12 %  |
|   | (179) Siemens        | >>> | 3 7,0 | 5,1 % |

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: DGP2/21 - Urine Strip Tests Analysis

Deadline: 21.05.2021

| Test                                 | Sample                               | Group                | N             | Result        | N <sub>rel</sub> |       |
|--------------------------------------|--------------------------------------|----------------------|---------------|---------------|------------------|-------|
| A                                    | (179)                                | Siemens              | >             | 1 7,5         | 1,7 %            |       |
|                                      | (201)                                | Iris Diagnostics     | >             | 1 6,5         | 1,7 %            |       |
|                                      |                                      |                      | >>>           | 2 7,0         | 3,4 %            |       |
|                                      | (202)                                | Dirui                |               | 1 5,0         | 1,7 %            |       |
|                                      |                                      |                      | >             | 4 6,5         | 6,8 %            |       |
|                                      |                                      |                      | >>>           | 10 7,0        | 17 %             |       |
|                                      | (207)                                | 77 Elektronika Kft.  | >             | 2 6,5         | 3,4 %            |       |
|                                      | (999)                                | another manufacturer | >             | 2 6,5         | 3,4 %            |       |
|                                      |                                      |                      | >>>           | 1 7,0         | 1,7 %            |       |
|                                      | ----- Total per sample: n = 59 ----- |                      |               | Success: 98 % |                  |       |
|                                      | B                                    | (5)                  | Dialab        | >>>           | 1 6,5            | 1,7 % |
| (12)                                 |                                      | Beckman Coulter      | >>>           | 4 6,5         | 6,8 %            |       |
| (46)                                 |                                      | Erba Lachema         | >             | 5 6,0         | 8,5 %            |       |
|                                      |                                      |                      | >>>           | 5 6,5         | 8,5 %            |       |
|                                      |                                      |                      | >             | 2 7,0         | 3,4 %            |       |
| (60)                                 |                                      | Roche                | >>>           | 1 6,5         | 1,7 %            |       |
| (63)                                 |                                      | Sysmex               | >>>           | 2 6,5         | 3,4 %            |       |
| (109)                                |                                      | Axis-Shield          | >             | 2 6,0         | 3,4 %            |       |
| (150)                                |                                      | Arkray               | >>>           | 10 6,5        | 17 %             |       |
| (179)                                |                                      | Siemens              | >>>           | 2 6,5         | 3,4 %            |       |
|                                      |                                      |                      | >             | 2 7,0         | 3,4 %            |       |
| (201)                                |                                      | Iris Diagnostics     | >>>           | 2 6,5         | 3,4 %            |       |
|                                      |                                      |                      | >             | 1 7,0         | 1,7 %            |       |
| (202)                                |                                      | Dirui                | >             | 7 6,0         | 12 %             |       |
|                                      |                                      |                      | >>>           | 8 6,5         | 14 %             |       |
| (207)                                |                                      | 77 Elektronika Kft.  | >>>           | 2 6,5         | 3,4 %            |       |
| (999)                                |                                      | another manufacturer |               | 2 5,0         | 3,4 %            |       |
|                                      |                                      |                      | >             | 1 6,0         | 1,7 %            |       |
| ----- Total per sample: n = 59 ----- |                                      |                      | Success: 97 % |               |                  |       |
| Total success: 95 %                  |                                      |                      |               |               |                  |       |

## (274) Nitrite

|                                      |       |                      |               |             |       |
|--------------------------------------|-------|----------------------|---------------|-------------|-------|
| A                                    | (5)   | Dialab               | >>>           | 1 Positive  | 1,8 % |
|                                      | (12)  | Beckman Coulter      | >>>           | 4 Positive  | 7,1 % |
|                                      | (46)  | Erba Lachema         | >>>           | 10 Positive | 18 %  |
|                                      | (60)  | Roche                | >>>           | 1 Positive  | 1,8 % |
|                                      | (63)  | Sysmex               | >>>           | 2 Positive  | 3,6 % |
|                                      | (109) | Axis-Shield          | >>>           | 2 Positive  | 3,6 % |
|                                      | (150) | Arkray               | >>>           | 10 Positive | 18 %  |
|                                      | (179) | Siemens              | >>>           | 4 Positive  | 7,1 % |
|                                      | (201) | Iris Diagnostics     | >>>           | 3 Positive  | 5,4 % |
|                                      | (202) | Dirui                |               | 1 Negative  | 1,8 % |
|                                      |       |                      | >>>           | 13 Positive | 23 %  |
|                                      | (207) | 77 Elektronika Kft.  | >>>           | 2 Positive  | 3,6 % |
|                                      | (999) | another manufacturer | >>>           | 3 Positive  | 5,4 % |
| ----- Total per sample: n = 56 ----- |       |                      | Success: 98 % |             |       |
| B                                    | (5)   | Dialab               | >>>           | 1 Negative  | 1,8 % |
|                                      | (12)  | Beckman Coulter      | >>>           | 4 Negative  | 7,1 % |
|                                      | (46)  | Erba Lachema         | >>>           | 10 Negative | 18 %  |
|                                      | (60)  | Roche                | >>>           | 1 Negative  | 1,8 % |
|                                      | (63)  | Sysmex               | >>>           | 2 Negative  | 3,6 % |
|                                      | (109) | Axis-Shield          | >>>           | 2 Negative  | 3,6 % |
|                                      | (150) | Arkray               | >>>           | 10 Negative | 18 %  |
|                                      | (179) | Siemens              | >>>           | 4 Negative  | 7,1 % |
|                                      | (201) | Iris Diagnostics     | >>>           | 3 Negative  | 5,4 % |
|                                      | (202) | Dirui                | >>>           | 13 Negative | 23 %  |
|                                      |       |                      |               | 1 Positive  | 1,8 % |
|                                      | (207) | 77 Elektronika Kft.  | >>>           | 2 Negative  | 3,6 % |
|                                      | (999) | another manufacturer | >>>           | 3 Negative  | 5,4 % |
| ----- Total per sample: n = 56 ----- |       |                      | Success: 98 % |             |       |
| Total success: 98 %                  |       |                      |               |             |       |

## (275) hCG

|                                     |       |                      |               |            |      |
|-------------------------------------|-------|----------------------|---------------|------------|------|
| A                                   | (5)   | Dialab               |               | 1 Negative | 17 % |
|                                     |       |                      | >>>           | 1 Positive | 17 % |
|                                     | (32)  | Human                | >>>           | 1 Positive | 17 % |
|                                     | (179) | Siemens              | >>>           | 2 Positive | 33 % |
|                                     | (999) | another manufacturer |               | 1 Negative | 17 % |
| ----- Total per sample: n = 6 ----- |       |                      | Success: 67 % |            |      |
| B                                   | (5)   | Dialab               | >>>           | 1 Negative | 17 % |

**Summary statistics - qualitative results**

(Groups: manufacturer of kit)

**EQA round: DGP2/21 - Urine Strip Tests Analysis**

Deadline: 21.05.2021

| <b>Test</b>             |                            |               |            |                  |
|-------------------------|----------------------------|---------------|------------|------------------|
| Sample                  | Group                      | N             | Result     | N <sub>rel</sub> |
| B                       | (5) Dialab                 | 1             | Positive   | 17 %             |
|                         | (32) Human                 | >>>           | 1 Negative | 17 %             |
|                         | (179) Siemens              | >>>           | 2 Negative | 33 %             |
|                         | (999) another manufacturer | 1             | Positive   | 17 %             |
| Total per sample: n = 6 |                            | Success: 67 % |            |                  |
| Total success: 67 %     |                            |               |            |                  |

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End of report

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