

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

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>(1001) DAT (direct Coombs test)</b>                    |                                 |     |                  |                  |
| 1   | (14) Bio-Rad                    | >   | 1 Positive (2+)  | 1,3 %            |
|   |                                 | >   | 20 Positive (3+) | 25 %             |
|   |                                 | >>> | 23 Positive (4+) | 29 %             |
|   | (40) Ortho Clinical Diagnostics | >   | 1 Positive (3+)  | 1,3 %            |
|   |                                 | >>> | 3 Positive (4+)  | 3,8 %            |
|   | (80) DiaMed                     | >   | 1 Positive (2+)  | 1,3 %            |
|   |                                 | >   | 5 Positive (3+)  | 6,3 %            |
|   |                                 | >>> | 8 Positive (4+)  | 10 %             |
|   | (159) Grifols                   | >   | 1 Positive (3+)  | 1,3 %            |
|   |                                 | >>> | 15 Positive (4+) | 19 %             |
|   | (172) Immucor                   | >   | 1 Positive (2+)  | 1,3 %            |
| ----- Total per sample: n = 79 ----- Success: 100 % ----- |                                 |     |                  |                  |
| 2   | (14) Bio-Rad                    | >>> | 24 Positive (2+) | 30 %             |
|   |                                 | >   | 20 Positive (3+) | 25 %             |
|   | (40) Ortho Clinical Diagnostics | >   | 1 Positive (1+)  | 1,3 %            |
|   |                                 | >>> | 1 Positive (2+)  | 1,3 %            |
|   |                                 | >   | 2 Positive (3+)  | 2,5 %            |
|   | (80) DiaMed                     | >   | 1 Positive (1+)  | 1,3 %            |
|   |                                 | >>> | 6 Positive (2+)  | 7,6 %            |
|   |                                 | >   | 5 Positive (3+)  | 6,3 %            |
|   |                                 | >   | 2 Positive (4+)  | 2,5 %            |
|   | (159) Grifols                   | >   | 14 Positive (3+) | 18 %             |
|   |                                 | >   | 2 Positive (4+)  | 2,5 %            |
|   | (172) Immucor                   | >   | 1 Positive (3+)  | 1,3 %            |
| ----- Total per sample: n = 79 ----- Success: 100 % ----- |                                 |     |                  |                  |
| Total success: 100 %                                      |                                 |     |                  |                  |
| <b>(1002) Sensibilization specificity anti-IgG</b>        |                                 |     |                  |                  |
| 1   | (0) not specified               | >   | 1 Positive (3+)  | 2,4 %            |
|   | (14) Bio-Rad                    | >   | 11 Positive (3+) | 27 %             |
|   |                                 | >>> | 14 Positive (4+) | 34 %             |
|   | (80) DiaMed                     | >   | 4 Positive (3+)  | 9,8 %            |
|   |                                 | >>> | 6 Positive (4+)  | 15 %             |
|   | (159) Grifols                   | >>> | 5 Positive (4+)  | 12 %             |
| ----- Total per sample: n = 41 ----- Success: 100 % ----- |                                 |     |                  |                  |
| 2   | (0) not specified               | >   | 1 Positive (3+)  | 2,4 %            |
|   | (14) Bio-Rad                    | >   | 1 Positive (1+)  | 2,4 %            |
|   |                                 | >>> | 13 Positive (2+) | 32 %             |
|   |                                 | >   | 11 Positive (3+) | 27 %             |
|   | (80) DiaMed                     | >>> | 3 Positive (2+)  | 7,3 %            |
|   |                                 | >   | 5 Positive (3+)  | 12 %             |
|   |                                 | >   | 2 Positive (4+)  | 4,9 %            |
|   | (159) Grifols                   | >   | 5 Positive (3+)  | 12 %             |
| ----- Total per sample: n = 41 ----- Success: 100 % ----- |                                 |     |                  |                  |
| Total success: 100 %                                      |                                 |     |                  |                  |
| <b>(1003) Sensibilization specificity anti-IgA</b>        |                                 |     |                  |                  |
| 1   | (14) Bio-Rad                    | >>> | 23 Negative      | 72 %             |
|   | (80) DiaMed                     | >>> | 9 Negative       | 28 %             |
| ----- Total per sample: n = 32 ----- Success: 100 % ----- |                                 |     |                  |                  |
| 2   | (14) Bio-Rad                    | >>> | 23 Negative      | 72 %             |
|   | (80) DiaMed                     | >>> | 9 Negative       | 28 %             |
| ----- Total per sample: n = 32 ----- Success: 100 % ----- |                                 |     |                  |                  |
| Total success: 100 %                                      |                                 |     |                  |                  |
| <b>(1004) Sensibilization specificity anti-IgM</b>        |                                 |     |                  |                  |
| 1   | (14) Bio-Rad                    | >>> | 23 Negative      | 72 %             |
|   | (80) DiaMed                     | >>> | 9 Negative       | 28 %             |
| ----- Total per sample: n = 32 ----- Success: 100 % ----- |                                 |     |                  |                  |
| 2   | (14) Bio-Rad                    | >>> | 23 Negative      | 72 %             |
|   | (80) DiaMed                     | >>> | 9 Negative       | 28 %             |
| ----- Total per sample: n = 32 ----- Success: 100 % ----- |                                 |     |                  |                  |
| Total success: 100 %                                      |                                 |     |                  |                  |
| <b>(1005) Sensibilization specificity anti-C3c</b>        |                                 |     |                  |                  |
| 1   | (14) Bio-Rad                    | >>> | 23 Negative      | 72 %             |
|   | (80) DiaMed                     | >>> | 9 Negative       | 28 %             |
| ----- Total per sample: n = 32 ----- Success: 100 % ----- |                                 |     |                  |                  |

## Test

| Sample                   | Group        | N              | Result      | N <sub>rel</sub> |
|--------------------------|--------------|----------------|-------------|------------------|
| 2                        | (14) Bio-Rad | >>>            | 23 Negative | 72 %             |
|                          | (80) DiaMed  | >>>            | 9 Negative  | 28 %             |
| Total per sample: n = 32 |              | Success: 100 % |             |                  |
| Total success: 100 %     |              |                |             |                  |

**(1006) Sensibilization specificity anti-C3d**

|                          |               |               |                 |       |
|--------------------------|---------------|---------------|-----------------|-------|
| 1                        | (14) Bio-Rad  | >>>           | 25 Negative     | 64 %  |
|                          |               |               | 1 Positive (4+) | 2,6 % |
|                          | (80) DiaMed   | >>>           | 10 Negative     | 26 %  |
|                          | (159) Grifols | >>>           | 3 Negative      | 7,7 % |
| Total per sample: n = 39 |               | Success: 97 % |                 |       |
| 2                        | (14) Bio-Rad  | >>>           | 25 Negative     | 64 %  |
|                          |               |               | 1 Positive (2+) | 2,6 % |
|                          | (80) DiaMed   | >>>           | 10 Negative     | 26 %  |
|                          | (159) Grifols | >>>           | 3 Negative      | 7,7 % |
| Total per sample: n = 39 |               | Success: 97 % |                 |       |
| Total success: 97 %      |               |               |                 |       |

**(1008) Col. agglut: Quantif. IgG-DAT**

|                          |              |                |        |       |
|--------------------------|--------------|----------------|--------|-------|
| 1                        | (14) Bio-Rad | >>>            | 15 300 | 68 %  |
|                          | (80) DiaMed  | >>>            | 7 300  | 32 %  |
| Total per sample: n = 22 |              | Success: 100 % |        |       |
| 2                        | (14) Bio-Rad | >>>            | 15 10  | 68 %  |
|                          | (80) DiaMed  | >>>            | 5 10   | 23 %  |
|                          |              | >              | 2 30   | 9,1 % |
| Total per sample: n = 22 |              | Success: 100 % |        |       |
| Total success: 100 %     |              |                |        |       |

**(1009) Col. agglut: Subclass IgG1 1:1**

|                          |              |                |                  |       |
|--------------------------|--------------|----------------|------------------|-------|
| 1                        | (14) Bio-Rad | >              | 1 Positive (2+)  | 4,5 % |
|                          |              | >>>            | 10 Positive (3+) | 45 %  |
|                          |              | >              | 4 Positive (4+)  | 18 %  |
|                          | (80) DiaMed  | >>>            | 4 Positive (3+)  | 18 %  |
|                          |              | >              | 3 Positive (4+)  | 14 %  |
| Total per sample: n = 22 |              | Success: 100 % |                  |       |
| 2                        | (14) Bio-Rad |                | 2 Not specified  | 9,1 % |
|                          |              | >>>            | 13 Negative      | 59 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative       | 32 %  |
| Total per sample: n = 22 |              | Success: 91 %  |                  |       |
| Total success: 91 %      |              |                |                  |       |

**(1010) Col. agglut: Subclass IgG1 1:100**

|                          |              |                |                 |       |
|--------------------------|--------------|----------------|-----------------|-------|
| 1                        | (14) Bio-Rad | >              | 10 Negative     | 45 %  |
|                          |              | >>>            | 5 Positive (1+) | 23 %  |
|                          | (80) DiaMed  | >              | 2 Negative      | 9,1 % |
|                          |              | >>>            | 3 Positive (1+) | 14 %  |
|                          |              | >              | 2 Positive (2+) | 9,1 % |
| Total per sample: n = 22 |              | Success: 100 % |                 |       |
| 2                        | (14) Bio-Rad |                | 2 Not specified | 9,1 % |
|                          |              | >>>            | 13 Negative     | 59 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative      | 32 %  |
| Total per sample: n = 22 |              | Success: 91 %  |                 |       |
| Total success: 91 %      |              |                |                 |       |

**(1011) Col. agglut: Subclass IgG3 1:1**

|                          |              |                |                 |       |
|--------------------------|--------------|----------------|-----------------|-------|
| 1                        | (14) Bio-Rad | >>>            | 15 Negative     | 68 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative      | 32 %  |
| Total per sample: n = 22 |              | Success: 100 % |                 |       |
| 2                        | (14) Bio-Rad |                | 2 Not specified | 9,1 % |
|                          |              | >>>            | 13 Negative     | 59 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative      | 32 %  |
| Total per sample: n = 22 |              | Success: 91 %  |                 |       |
| Total success: 91 %      |              |                |                 |       |

**(1012) Col. agglut: Subclass IgG3 1:100**

|                          |              |                |                 |       |
|--------------------------|--------------|----------------|-----------------|-------|
| 1                        | (14) Bio-Rad | >>>            | 15 Negative     | 68 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative      | 32 %  |
| Total per sample: n = 22 |              | Success: 100 % |                 |       |
| 2                        | (14) Bio-Rad |                | 2 Not specified | 9,1 % |
|                          |              | >>>            | 13 Negative     | 59 %  |
|                          | (80) DiaMed  | >>>            | 7 Negative      | 32 %  |
| Total per sample: n = 22 |              | Success: 91 %  |                 |       |
| Total success: 91 %      |              |                |                 |       |

| Test                          |                                 |                | N  | Result                 | N <sub>rel</sub> |
|-------------------------------|---------------------------------|----------------|----|------------------------|------------------|
| Sample                        | Group                           |                |    |                        |                  |
| <b>(1019) AB0 blood group</b> |                                 |                |    |                        |                  |
| 1                             | (6) APR                         | >>>            | 1  | Blood group: A         | 1,9%             |
|                               | (14) Bio-Rad                    | >>>            | 15 | Blood group: A         | 29%              |
|                               | (40) Ortho Clinical Diagnostics | >>>            | 2  | Blood group: A         | 3,8%             |
|                               | (64) Exbio Olomouc              | >>>            | 3  | Blood group: A         | 5,8%             |
|                               | (80) DiaMed                     | >>>            | 3  | Blood group: A         | 5,8%             |
|                               | (159) Grifols                   | >>>            | 11 | Blood group: A         | 21%              |
|                               | (172) Immucor                   | >>>            | 4  | Blood group: A         | 7,7%             |
|                               | (173) Sanguin                   | >>>            | 8  | Blood group: A         | 15%              |
|                               | (174) IVT Imuno                 | >>>            | 5  | Blood group: A         | 9,6%             |
| Total per sample: n = 52      |                                 | Success: 100 % | -  |                        |                  |
| 2                             | (6) APR                         | >>>            | 1  | Blood group: 0         | 1,9%             |
|                               | (14) Bio-Rad                    | >>>            | 15 | Blood group: 0         | 29%              |
|                               | (40) Ortho Clinical Diagnostics | >>>            | 2  | Blood group: 0         | 3,8%             |
|                               | (64) Exbio Olomouc              | >>>            | 3  | Blood group: 0         | 5,8%             |
|                               | (80) DiaMed                     | >>>            | 3  | Blood group: 0         | 5,8%             |
|                               | (159) Grifols                   | >>>            | 11 | Blood group: 0         | 21%              |
|                               | (172) Immucor                   | >>>            | 4  | Blood group: 0         | 7,7%             |
|                               | (173) Sanguin                   | >>>            | 8  | Blood group: 0         | 15%              |
|                               | (174) IVT Imuno                 | >>>            | 5  | Blood group: 0         | 9,6%             |
| Total per sample: n = 52      |                                 | Success: 100 % | -  |                        |                  |
| Total success: 100 %          |                                 |                |    |                        |                  |
| <b>(1020) Rh D antigen</b>    |                                 |                |    |                        |                  |
| 1                             | (6) APR                         | >>>            | 2  | Positive (RhD+)        | 3,8%             |
|                               | (14) Bio-Rad                    | >>>            | 16 | Positive (RhD+)        | 31%              |
|                               | (40) Ortho Clinical Diagnostics | >>>            | 2  | Positive (RhD+)        | 3,8%             |
|                               | (52) Dynex                      | >>>            | 2  | Positive (RhD+)        | 3,8%             |
|                               | (80) DiaMed                     | >>>            | 3  | Positive (RhD+)        | 5,8%             |
|                               | (159) Grifols                   | >>>            | 11 | Positive (RhD+)        | 21%              |
|                               | (170) Biotest                   | >>>            | 1  | Positive (RhD+)        | 1,9%             |
|                               | (172) Immucor                   | >>>            | 6  | Positive (RhD+)        | 12%              |
|                               | (173) Sanguin                   | >>>            | 6  | Positive (RhD+)        | 12%              |
|                               | (174) IVT Imuno                 | >>>            | 2  | Positive (RhD+)        | 3,8%             |
|                               | (203) ANTITOXIN                 | >>>            | 1  | Positive (RhD+)        | 1,9%             |
| Total per sample: n = 52      |                                 | Success: 100 % | -  |                        |                  |
| 2                             | (6) APR                         | >>>            | 2  | Negative (RhD-)        | 3,8%             |
|                               | (14) Bio-Rad                    | >>>            | 15 | Negative (RhD-)        | 29%              |
|                               |                                 |                | 1  | w/v (RhD weak/variant) | 1,9%             |
|                               | (40) Ortho Clinical Diagnostics | >>>            | 2  | Negative (RhD-)        | 3,8%             |
|                               | (52) Dynex                      | >>>            | 2  | Negative (RhD-)        | 3,8%             |
|                               | (80) DiaMed                     | >>>            | 3  | Negative (RhD-)        | 5,8%             |
|                               | (159) Grifols                   | >>>            | 11 | Negative (RhD-)        | 21%              |
|                               | (170) Biotest                   | >>>            | 1  | w/v (RhD weak/variant) | 1,9%             |
|                               | (172) Immucor                   | >>>            | 4  | Negative (RhD-)        | 7,7%             |
|                               |                                 |                | 2  | w/v (RhD weak/variant) | 3,8%             |
|                               | (173) Sanguin                   | >>>            | 6  | Negative (RhD-)        | 12%              |
|                               | (174) IVT Imuno                 | >>>            | 2  | Negative (RhD-)        | 3,8%             |
|                               | (203) ANTITOXIN                 | >>>            | 1  | Negative (RhD-)        | 1,9%             |
| Total per sample: n = 52      |                                 | Success: 92 %  | -  |                        |                  |
| Total success: 92 %           |                                 |                |    |                        |                  |
| <b>(1021) Antigen C</b>       |                                 |                |    |                        |                  |
| 1                             | (14) Bio-Rad                    | >>>            | 14 | Positive               | 36%              |
|                               | (52) Dynex                      | >>>            | 1  | Positive               | 2,6%             |
|                               | (64) Exbio Olomouc              | >>>            | 1  | Positive               | 2,6%             |
|                               | (80) DiaMed                     | >>>            | 3  | Positive               | 7,7%             |
|                               | (159) Grifols                   | >>>            | 13 | Positive               | 33%              |
|                               | (172) Immucor                   | >>>            | 3  | Positive               | 7,7%             |
|                               | (173) Sanguin                   | >>>            | 3  | Positive               | 7,7%             |
|                               | (999) another manufacturer      | >>>            | 1  | Positive               | 2,6%             |
| Total per sample: n = 39      |                                 | Success: 100 % | -  |                        |                  |
| 2                             | (14) Bio-Rad                    | >>>            | 14 | Negative               | 36%              |
|                               | (52) Dynex                      | >>>            | 1  | Negative               | 2,6%             |
|                               | (64) Exbio Olomouc              | >>>            | 1  | Negative               | 2,6%             |
|                               | (80) DiaMed                     | >>>            | 3  | Negative               | 7,7%             |
|                               | (159) Grifols                   | >>>            | 13 | Negative               | 33%              |
|                               | (172) Immucor                   | >>>            | 3  | Negative               | 7,7%             |
|                               | (173) Sanguin                   | >>>            | 2  | Negative               | 5,1%             |
|                               |                                 |                | 1  | Positive               | 2,6%             |
|                               | (999) another manufacturer      | >>>            | 1  | Negative               | 2,6%             |

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

## Test

| Sample                   | Group | N             | Result | N <sub>rel</sub> |
|--------------------------|-------|---------------|--------|------------------|
| Total per sample: n = 39 |       | Success: 97 % |        |                  |
| Total success: 97 %      |       |               |        |                  |

## (1022) Antigen c

|                          |                            |                |    |          |       |
|--------------------------|----------------------------|----------------|----|----------|-------|
| 1                        | (14) Bio-Rad               | >>>            | 14 | Negative | 36 %  |
|                          | (64) Exbio Olomouc         | >>>            | 1  | Negative | 2,6 % |
|                          | (80) DiaMed                | >>>            | 3  | Negative | 7,7 % |
|                          | (159) Grifols              | >>>            | 13 | Negative | 33 %  |
|                          | (172) Immucor              | >>>            | 3  | Negative | 7,7 % |
|                          | (173) Sanguin              | >>>            | 4  | Negative | 10 %  |
|                          | (999) another manufacturer | >>>            | 1  | Negative | 2,6 % |
| Total per sample: n = 39 |                            | Success: 100 % |    |          |       |

|                          |                            |                |    |          |       |
|--------------------------|----------------------------|----------------|----|----------|-------|
| 2                        | (14) Bio-Rad               | >>>            | 14 | Positive | 36 %  |
|                          | (64) Exbio Olomouc         | >>>            | 1  | Positive | 2,6 % |
|                          | (80) DiaMed                | >>>            | 3  | Positive | 7,7 % |
|                          | (159) Grifols              | >>>            | 13 | Positive | 33 %  |
|                          | (172) Immucor              | >>>            | 3  | Positive | 7,7 % |
|                          | (173) Sanguin              | >>>            | 4  | Positive | 10 %  |
|                          | (999) another manufacturer | >>>            | 1  | Positive | 2,6 % |
| Total per sample: n = 39 |                            | Success: 100 % |    |          |       |

Total success: 100 %

## (1023) Antigen Cw

|                          |                            |               |    |          |       |
|--------------------------|----------------------------|---------------|----|----------|-------|
| 1                        | (14) Bio-Rad               | >>>           | 6  | Negative | 18 %  |
|                          | (64) Exbio Olomouc         | >>>           | 1  | Negative | 2,9 % |
|                          | (80) DiaMed                | >>>           | 1  | Positive | 2,9 % |
|                          | (159) Grifols              | >>>           | 14 | Negative | 41 %  |
|                          | (170) Biotest              | >>>           | 1  | Negative | 2,9 % |
|                          | (172) Immucor              | >>>           | 2  | Negative | 5,9 % |
|                          |                            |               | 1  | Positive | 2,9 % |
|                          | (173) Sanguin              | >>>           | 7  | Negative | 21 %  |
|                          | (999) another manufacturer | >>>           | 1  | Negative | 2,9 % |
| Total per sample: n = 34 |                            | Success: 94 % |    |          |       |

|                          |                            |                |    |          |       |
|--------------------------|----------------------------|----------------|----|----------|-------|
| 2                        | (14) Bio-Rad               | >>>            | 6  | Negative | 18 %  |
|                          | (64) Exbio Olomouc         | >>>            | 1  | Negative | 2,9 % |
|                          | (80) DiaMed                | >>>            | 1  | Negative | 2,9 % |
|                          | (159) Grifols              | >>>            | 14 | Negative | 41 %  |
|                          | (170) Biotest              | >>>            | 1  | Negative | 2,9 % |
|                          | (172) Immucor              | >>>            | 3  | Negative | 8,8 % |
|                          | (173) Sanguin              | >>>            | 7  | Negative | 21 %  |
|                          | (999) another manufacturer | >>>            | 1  | Negative | 2,9 % |
| Total per sample: n = 34 |                            | Success: 100 % |    |          |       |

Total success: 94 %

## (1024) Antigen E

|                          |                            |                |    |          |       |
|--------------------------|----------------------------|----------------|----|----------|-------|
| 1                        | (14) Bio-Rad               | >>>            | 14 | Negative | 36 %  |
|                          | (52) Dynex                 | >>>            | 1  | Negative | 2,6 % |
|                          | (64) Exbio Olomouc         | >>>            | 1  | Negative | 2,6 % |
|                          | (80) DiaMed                | >>>            | 3  | Negative | 7,7 % |
|                          | (159) Grifols              | >>>            | 13 | Negative | 33 %  |
|                          | (172) Immucor              | >>>            | 3  | Negative | 7,7 % |
|                          | (173) Sanguin              | >>>            | 3  | Negative | 7,7 % |
|                          | (999) another manufacturer | >>>            | 1  | Negative | 2,6 % |
| Total per sample: n = 39 |                            | Success: 100 % |    |          |       |

|                          |                            |                |    |          |       |
|--------------------------|----------------------------|----------------|----|----------|-------|
| 2                        | (14) Bio-Rad               | >>>            | 14 | Negative | 36 %  |
|                          | (52) Dynex                 | >>>            | 1  | Negative | 2,6 % |
|                          | (64) Exbio Olomouc         | >>>            | 1  | Negative | 2,6 % |
|                          | (80) DiaMed                | >>>            | 3  | Negative | 7,7 % |
|                          | (159) Grifols              | >>>            | 13 | Negative | 33 %  |
|                          | (172) Immucor              | >>>            | 3  | Negative | 7,7 % |
|                          | (173) Sanguin              | >>>            | 3  | Negative | 7,7 % |
|                          | (999) another manufacturer | >>>            | 1  | Negative | 2,6 % |
| Total per sample: n = 39 |                            | Success: 100 % |    |          |       |

Total success: 100 %

## (1025) Antigen e

|   |                    |     |    |          |       |
|---|--------------------|-----|----|----------|-------|
| 1 | (14) Bio-Rad       | >>> | 14 | Positive | 36 %  |
|   | (64) Exbio Olomouc | >>> | 1  | Positive | 2,6 % |
|   | (80) DiaMed        | >>> | 3  | Positive | 7,7 % |
|   | (159) Grifols      | >>> | 13 | Positive | 33 %  |
|   | (172) Immucor      | >>> | 3  | Positive | 7,7 % |
|   | (173) Sanguin      | >>> | 4  | Positive | 10 %  |

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

| Test                     | Sample                     | Group          | N              | Result   | N <sub>rel</sub> |
|--------------------------|----------------------------|----------------|----------------|----------|------------------|
| 1                        | (999) another manufacturer | >>>            | 1              | Positive | 2.6 %            |
|                          | Total per sample: n = 39   |                | Success: 100 % |          |                  |
| 2                        | (14) Bio-Rad               | >>>            | 14             | Positive | 36 %             |
|                          | (64) Exbio Olomouc         | >>>            | 1              | Positive | 2,6 %            |
|                          | (80) DiaMed                | >>>            | 3              | Positive | 7,7 %            |
|                          | (159) Grifols              | >>>            | 13             | Positive | 33 %             |
|                          | (172) Immucor              | >>>            | 3              | Positive | 7,7 %            |
|                          | (173) Sanguin              | >>>            | 4              | Positive | 10 %             |
|                          | (999) another manufacturer | >>>            | 1              | Positive | 2,6 %            |
| Total per sample: n = 39 |                            | Success: 100 % |                |          |                  |

Total success: 100 %

**(1026) Antigen K**

|                            |                    |                |          |          |       |
|----------------------------|--------------------|----------------|----------|----------|-------|
| 1                          | (14) Bio-Rad       | >>>            | 13       | Positive | 33 %  |
|                            | (52) Dynex         | >>>            | 1        | Positive | 2,5 % |
|                            | (64) Exbio Olomouc | >>>            | 2        | Positive | 5,0 % |
|                            | (80) DiaMed        | >>>            | 2        | Positive | 5,0 % |
|                            | (159) Grifols      | >>>            | 14       | Positive | 35 %  |
|                            | (172) Immucor      | >>>            | 2        | Positive | 5,0 % |
|                            | (173) Sanguin      | >>>            | 3        | Positive | 7,5 % |
|                            | (174) IVT Imuno    | >>>            | 1        | Positive | 2,5 % |
|                            | (203) ANTITOXIN    | >>>            | 1        | Positive | 2,5 % |
| (999) another manufacturer | >>>                | 1              | Positive | 2,5 %    |       |
| Total per sample: n = 40   |                    | Success: 100 % |          |          |       |
| 2                          | (14) Bio-Rad       | >>>            | 13       | Negative | 33 %  |
|                            | (52) Dynex         | >>>            | 1        | Negative | 2,5 % |
|                            | (64) Exbio Olomouc | >>>            | 2        | Negative | 5,0 % |
|                            | (80) DiaMed        | >>>            | 2        | Negative | 5,0 % |
|                            | (159) Grifols      | >>>            | 14       | Negative | 35 %  |
|                            | (172) Immucor      | >>>            | 2        | Negative | 5,0 % |
|                            | (173) Sanguin      | >>>            | 3        | Negative | 7,5 % |
|                            | (174) IVT Imuno    | >>>            | 1        | Negative | 2,5 % |
|                            | (203) ANTITOXIN    | >>>            | 1        | Negative | 2,5 % |
| (999) another manufacturer | >>>                | 1              | Negative | 2,5 %    |       |
| Total per sample: n = 40   |                    | Success: 100 % |          |          |       |

Total success: 100 %

**(1027) Antigen k**

|                          |                    |                |    |          |       |
|--------------------------|--------------------|----------------|----|----------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 3  | Positive | 13 %  |
|                          | (64) Exbio Olomouc | >>>            | 2  | Positive | 8,3 % |
|                          | (80) DiaMed        | >>>            | 2  | Positive | 8,3 % |
|                          | (159) Grifols      | >>>            | 2  | Positive | 8,3 % |
|                          | (172) Immucor      | >>>            | 3  | Positive | 13 %  |
|                          | (173) Sanguin      | >>>            | 12 | Positive | 50 %  |
| Total per sample: n = 24 |                    | Success: 100 % |    |          |       |
| 2                        | (14) Bio-Rad       | >>>            | 3  | Positive | 13 %  |
|                          | (64) Exbio Olomouc | >>>            | 2  | Positive | 8,3 % |
|                          | (80) DiaMed        | >>>            | 2  | Positive | 8,3 % |
|                          | (159) Grifols      | >>>            | 2  | Positive | 8,3 % |
|                          | (172) Immucor      | >>>            | 3  | Positive | 13 %  |
|                          | (173) Sanguin      | >>>            | 12 | Positive | 50 %  |
| Total per sample: n = 24 |                    | Success: 100 % |    |          |       |

Total success: 100 %

**(1028) Antigen M**

|                          |                                |                |          |          |       |
|--------------------------|--------------------------------|----------------|----------|----------|-------|
| 1                        | (6) APR                        | >>>            | 1        | Positive | 4,0 % |
|                          | (14) Bio-Rad                   | >>>            | 3        | Positive | 12 %  |
|                          | (64) Exbio Olomouc             | >>>            | 1        | Positive | 4,0 % |
|                          | (80) DiaMed                    | >>>            | 4        | Positive | 16 %  |
|                          | (159) Grifols                  | >>>            | 3        | Positive | 12 %  |
|                          | (172) Immucor                  | >>>            | 5        | Positive | 20 %  |
|                          | (173) Sanguin                  | >>>            | 4        | Positive | 16 %  |
|                          | (174) IVT Imuno                | >>>            | 1        | Positive | 4,0 % |
|                          | (183) Immunodiagnostic Systems | >>>            | 1        | Positive | 4,0 % |
| (203) ANTITOXIN          | >>>                            | 2              | Positive | 8,0 %    |       |
| Total per sample: n = 25 |                                | Success: 100 % |          |          |       |
| 2                        | (6) APR                        | >>>            | 1        | Positive | 4,0 % |
|                          | (14) Bio-Rad                   | >>>            | 3        | Positive | 12 %  |
|                          | (64) Exbio Olomouc             | >>>            | 1        | Positive | 4,0 % |
|                          | (80) DiaMed                    | >>>            | 4        | Positive | 16 %  |
|                          | (159) Grifols                  | >>>            | 3        | Positive | 12 %  |

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

| Test                 | Sample                   | Group                          | N              | Result     | N <sub>rel</sub> |
|----------------------|--------------------------|--------------------------------|----------------|------------|------------------|
|                      | 2                        | (172) Immucor                  | >>>            | 5 Positive | 20 %             |
|                      |                          | (173) Sanguin                  | >>>            | 4 Positive | 16 %             |
|                      |                          | (174) IVT Imuno                | >>>            | 1 Positive | 4,0 %            |
|                      |                          | (183) Immunodiagnostic Systems | >>>            | 1 Positive | 4,0 %            |
|                      |                          | (203) ANTITOXIN                | >>>            | 2 Positive | 8,0 %            |
|                      | Total per sample: n = 25 |                                | Success: 100 % |            |                  |
| Total success: 100 % |                          |                                |                |            |                  |

**(1029) Antigen N**

|                          |                                |                |            |       |  |
|--------------------------|--------------------------------|----------------|------------|-------|--|
| 1                        | (6) APR                        | >>>            | 1 Positive | 4,3 % |  |
|                          | (14) Bio-Rad                   | >>>            | 3 Positive | 13 %  |  |
|                          | (64) Exbio Olomouc             | >>>            | 1 Positive | 4,3 % |  |
|                          | (80) DiaMed                    | >>>            | 4 Positive | 17 %  |  |
|                          | (159) Grifols                  | >>>            | 3 Positive | 13 %  |  |
|                          | (172) Immucor                  | >>>            | 3 Positive | 13 %  |  |
|                          | (173) Sanguin                  | >>>            | 4 Positive | 17 %  |  |
|                          | (174) IVT Imuno                | >>>            | 1 Positive | 4,3 % |  |
|                          | (183) Immunodiagnostic Systems | >>>            | 1 Positive | 4,3 % |  |
|                          | (203) ANTITOXIN                | >>>            | 2 Positive | 8,7 % |  |
| Total per sample: n = 23 |                                | Success: 100 % |            |       |  |
| 2                        | (6) APR                        | >>>            | 1 Positive | 4,3 % |  |
|                          | (14) Bio-Rad                   | >>>            | 3 Positive | 13 %  |  |
|                          | (64) Exbio Olomouc             | >>>            | 1 Positive | 4,3 % |  |
|                          | (80) DiaMed                    | >>>            | 4 Positive | 17 %  |  |
|                          | (159) Grifols                  | >>>            | 3 Positive | 13 %  |  |
|                          | (172) Immucor                  | >>>            | 3 Positive | 13 %  |  |
|                          | (173) Sanguin                  | >>>            | 4 Positive | 17 %  |  |
|                          | (174) IVT Imuno                | >>>            | 1 Positive | 4,3 % |  |
|                          | (183) Immunodiagnostic Systems | >>>            | 1 Positive | 4,3 % |  |
|                          | (203) ANTITOXIN                | >>>            | 2 Positive | 8,7 % |  |
| Total per sample: n = 23 |                                | Success: 100 % |            |       |  |
| Total success: 100 %     |                                |                |            |       |  |

**(1030) Antigen S**

|                                |                                |               |            |       |  |
|--------------------------------|--------------------------------|---------------|------------|-------|--|
| 1                              | (6) APR                        | >>>           | 1 Negative | 4,2 % |  |
|                                | (14) Bio-Rad                   | >>>           | 1 Negative | 4,2 % |  |
|                                |                                |               | 1 Positive | 4,2 % |  |
|                                | (64) Exbio Olomouc             | >>>           | 2 Negative | 8,3 % |  |
|                                | (80) DiaMed                    | >>>           | 1 Negative | 4,2 % |  |
|                                |                                |               | 1 Positive | 4,2 % |  |
|                                | (159) Grifols                  | >>>           | 3 Negative | 13 %  |  |
|                                | (172) Immucor                  | >>>           | 6 Negative | 25 %  |  |
|                                | (173) Sanguin                  | >>>           | 6 Negative | 25 %  |  |
|                                |                                |               | 1 Positive | 4,2 % |  |
| (183) Immunodiagnostic Systems | >>>                            | 1 Negative    | 4,2 %      |       |  |
| Total per sample: n = 24       |                                | Success: 88 % |            |       |  |
| 2                              | (6) APR                        | >>>           | 1 Negative | 4,2 % |  |
|                                | (14) Bio-Rad                   | >>>           | 2 Negative | 8,3 % |  |
|                                | (64) Exbio Olomouc             | >>>           | 2 Negative | 8,3 % |  |
|                                | (80) DiaMed                    | >>>           | 1 Negative | 4,2 % |  |
|                                |                                |               | 1 Positive | 4,2 % |  |
|                                | (159) Grifols                  | >>>           | 3 Negative | 13 %  |  |
|                                | (172) Immucor                  | >>>           | 6 Negative | 25 %  |  |
|                                | (173) Sanguin                  | >>>           | 6 Negative | 25 %  |  |
|                                |                                |               | 1 Positive | 4,2 % |  |
|                                | (183) Immunodiagnostic Systems | >>>           | 1 Negative | 4,2 % |  |
| Total per sample: n = 24       |                                | Success: 92 % |            |       |  |
| Total success: 88 %            |                                |               |            |       |  |

**(1031) Antigen s**

|                          |                    |                |            |      |  |
|--------------------------|--------------------|----------------|------------|------|--|
| 1                        | (14) Bio-Rad       | >>>            | 2 Positive | 12 % |  |
|                          | (64) Exbio Olomouc | >>>            | 2 Positive | 12 % |  |
|                          | (80) DiaMed        | >>>            | 2 Positive | 12 % |  |
|                          | (159) Grifols      | >>>            | 3 Positive | 18 % |  |
|                          | (172) Immucor      | >>>            | 8 Positive | 47 % |  |
| Total per sample: n = 17 |                    | Success: 100 % |            |      |  |
| 2                        | (14) Bio-Rad       | >>>            | 2 Positive | 12 % |  |
|                          | (64) Exbio Olomouc | >>>            | 2 Positive | 12 % |  |
|                          | (80) DiaMed        | >>>            | 2 Positive | 12 % |  |
|                          | (159) Grifols      | >>>            | 3 Positive | 18 % |  |
|                          | (172) Immucor      | >>>            | 8 Positive | 47 % |  |

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

## Test

| Sample                   | Group | N              | Result | N <sub>rel</sub> |
|--------------------------|-------|----------------|--------|------------------|
| Total per sample: n = 17 |       | Success: 100 % |        |                  |
| Total success: 100 %     |       |                |        |                  |

**(1032) Antigen PI**

|                          |                    |                |            |       |
|--------------------------|--------------------|----------------|------------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 2 Negative | 9,1 % |
|                          |                    |                | 1 Positive | 4,5 % |
|                          | (64) Exbio Olomouc | >>>            | 3 Negative | 14 %  |
|                          | (80) DiaMed        | >>>            | 2 Negative | 9,1 % |
|                          | (159) Grifols      | >>>            | 2 Negative | 9,1 % |
|                          | (172) Immucor      | >>>            | 4 Negative | 18 %  |
|                          | (173) Sanguin      | >>>            | 7 Negative | 32 %  |
|                          |                    |                | 1 Positive | 4,5 % |
| Total per sample: n = 22 |                    | Success: 91 %  |            |       |
| 2                        | (14) Bio-Rad       | >>>            | 3 Positive | 14 %  |
|                          | (64) Exbio Olomouc | >>>            | 3 Positive | 14 %  |
|                          | (80) DiaMed        | >>>            | 2 Positive | 9,1 % |
|                          | (159) Grifols      | >>>            | 2 Positive | 9,1 % |
|                          | (172) Immucor      | >>>            | 4 Positive | 18 %  |
|                          | (173) Sanguin      | >>>            | 8 Positive | 36 %  |
| Total per sample: n = 22 |                    | Success: 100 % |            |       |
| Total success: 91 %      |                    |                |            |       |

**(1033) Antigen Jka**

|                          |                    |                |            |       |
|--------------------------|--------------------|----------------|------------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 3 Positive | 12 %  |
|                          | (52) Dynex         | >>>            | 2 Positive | 7,7 % |
|                          | (64) Exbio Olomouc | >>>            | 3 Positive | 12 %  |
|                          | (80) DiaMed        | >>>            | 1 Positive | 3,8 % |
|                          | (159) Grifols      | >>>            | 4 Positive | 15 %  |
|                          | (172) Immucor      | >>>            | 5 Positive | 19 %  |
|                          | (173) Sanguin      | >>>            | 8 Positive | 31 %  |
| Total per sample: n = 26 |                    | Success: 100 % |            |       |
| 2                        | (14) Bio-Rad       | >>>            | 3 Negative | 12 %  |
|                          | (52) Dynex         | >>>            | 2 Negative | 7,7 % |
|                          | (64) Exbio Olomouc | >>>            | 3 Negative | 12 %  |
|                          | (80) DiaMed        | >>>            | 1 Negative | 3,8 % |
|                          | (159) Grifols      | >>>            | 4 Negative | 15 %  |
|                          | (172) Immucor      | >>>            | 5 Negative | 19 %  |
|                          | (173) Sanguin      | >>>            | 8 Negative | 31 %  |
| Total per sample: n = 26 |                    | Success: 100 % |            |       |
| Total success: 100 %     |                    |                |            |       |

**(1034) Antigen Jkb**

|                          |                    |                |            |       |
|--------------------------|--------------------|----------------|------------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 2 Positive | 8,0 % |
|                          | (52) Dynex         | >>>            | 1 Positive | 4,0 % |
|                          | (64) Exbio Olomouc | >>>            | 3 Positive | 12 %  |
|                          | (80) DiaMed        | >>>            | 1 Positive | 4,0 % |
|                          | (159) Grifols      | >>>            | 4 Positive | 16 %  |
|                          | (172) Immucor      | >>>            | 5 Positive | 20 %  |
|                          | (173) Sanguin      | >>>            | 9 Positive | 36 %  |
| Total per sample: n = 25 |                    | Success: 100 % |            |       |
| 2                        | (14) Bio-Rad       | >>>            | 2 Positive | 8,0 % |
|                          | (52) Dynex         | >>>            | 1 Positive | 4,0 % |
|                          | (64) Exbio Olomouc | >>>            | 3 Positive | 12 %  |
|                          | (80) DiaMed        | >>>            | 1 Positive | 4,0 % |
|                          | (159) Grifols      | >>>            | 4 Positive | 16 %  |
|                          | (172) Immucor      | >>>            | 5 Positive | 20 %  |
|                          | (173) Sanguin      | >>>            | 9 Positive | 36 %  |
| Total per sample: n = 25 |                    | Success: 100 % |            |       |
| Total success: 100 %     |                    |                |            |       |

**(1035) Antigen Lea**

|                          |                    |                |            |       |
|--------------------------|--------------------|----------------|------------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 3 Negative | 14 %  |
|                          | (64) Exbio Olomouc | >>>            | 2 Negative | 9,5 % |
|                          | (80) DiaMed        | >>>            | 2 Negative | 9,5 % |
|                          | (159) Grifols      | >>>            | 2 Negative | 9,5 % |
|                          | (172) Immucor      | >>>            | 8 Negative | 38 %  |
|                          | (173) Sanguin      | >>>            | 4 Negative | 19 %  |
| Total per sample: n = 21 |                    | Success: 100 % |            |       |
| 2                        | (14) Bio-Rad       | >>>            | 3 Negative | 14 %  |
|                          | (64) Exbio Olomouc | >>>            | 2 Negative | 9,5 % |
|                          | (80) DiaMed        | >>>            | 2 Negative | 9,5 % |
|                          | (159) Grifols      | >>>            | 2 Negative | 9,5 % |

## Summary statistics - qualitative results

(Groups: manufacturer of kit)

## EQA round: PAT1/18 - Direct Antiglobulin Test

Dead line: 07.06.2018

| Test                     |               |                |   |          |                  |
|--------------------------|---------------|----------------|---|----------|------------------|
| Sample                   | Group         |                | N | Result   | N <sub>rel</sub> |
| 2                        | (172) Immucor | >>>            | 8 | Negative | 38 %             |
|                          | (173) Sanguin | >>>            | 4 | Negative | 19 %             |
| Total per sample: n = 21 |               | Success: 100 % |   |          |                  |
| Total success: 100 %     |               |                |   |          |                  |

**(1036) Antigen Leb**

|                          |                    |                |     |          |               |       |
|--------------------------|--------------------|----------------|-----|----------|---------------|-------|
| 1                        | (14) Bio-Rad       | >>>            | 3   | Positive | 15 %          |       |
|                          | (64) Exbio Olomouc | >>>            | 2   | Positive | 10 %          |       |
|                          | (80) DiaMed        | >>>            | 2   | Positive | 10 %          |       |
|                          | (159) Grifols      | >>>            | 2   | Positive | 15 %          |       |
|                          | (172) Immucor      |                | 3   | Negative | 15 %          |       |
|                          | (173) Sanguin      |                | >>> | 4        | Positive      | 20 %  |
|                          |                    |                |     | 1        | Not specified | 5,0 % |
|                          |                    |                |     | 2        | Negative      | 10 %  |
| Total per sample: n = 20 |                    | Success: 70 %  |     |          |               |       |
| 2                        | (14) Bio-Rad       | >>>            | 3   | Positive | 15 %          |       |
|                          | (64) Exbio Olomouc | >>>            | 2   | Positive | 10 %          |       |
|                          | (80) DiaMed        | >>>            | 2   | Positive | 10 %          |       |
|                          | (159) Grifols      | >>>            | 2   | Positive | 10 %          |       |
|                          | (172) Immucor      | >>>            | 7   | Positive | 35 %          |       |
|                          | (173) Sanguin      | >>>            | 4   | Positive | 20 %          |       |
| Total per sample: n = 20 |                    | Success: 100 % |     |          |               |       |
| Total success: 70 %      |                    |                |     |          |               |       |

st\_kl

End of report

Printed: 19.06.2018