

EQA round: IH4/23 - Blood Group Serology

Deadline: 17.11.2023

Setup: groups - M (measurement principle)

AV = assigned value
 RV = reference value
 >>> ... expected result
 > ... acceptable result
 ± ... result not assessed

N_{tot} = total number of the results
 N_{rel} = relative number of the results

N_{eva} = number of the results assessed
 N_{suc} = number of successful results
 S_{rel} = relative success

| Test Sample Group | Frequency of the results | | | | | Success | | |
|--|--------------------------|------------------|-------------------------|-----------------|------------------|------------------|-------------------------|--|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| Set 1 and 2 | | | | | | | | |
| (700) ABO blood group | | 167 | | | 167 | 167 | 100 | |
| Samples E1 and S1 | | 167 | | | 167 | 167 | 100 | |
| (1) Tube test | RV >>> | 53 | 32 | Blood group: A | | | | |
| (2) Microplate - aut. | RV >>> | 13 | 7,8 | Blood group: A | | | | |
| (3) Microplate - man. | RV >>> | 6 | 3,6 | Blood group: A | | | | |
| (7) Column agglutination - automat | RV >>> | 48 | 29 | Blood group: A | | | | |
| (9) Column agglutination - manual | RV >>> | 46 | 28 | Blood group: A | | | | |
| (10) Solid phase | RV >>> | 1 | 0,6 | Blood group: A | | | | |
| Samples E2 and S2 | | 167 | | | 167 | 167 | 100 | |
| (1) Tube test | RV >>> | 53 | 32 | Blood group: 0 | | | | |
| (2) Microplate - aut. | RV >>> | 13 | 7,8 | Blood group: 0 | | | | |
| (3) Microplate - man. | RV >>> | 6 | 3,6 | Blood group: 0 | | | | |
| (7) Column agglutination - automat | RV >>> | 48 | 29 | Blood group: 0 | | | | |
| (9) Column agglutination - manual | RV >>> | 46 | 28 | Blood group: 0 | | | | |
| (10) Solid phase | RV >>> | 1 | 0,6 | Blood group: 0 | | | | |
| (703) A subgroup | | 53 | | | 53 | 53 | 100 | |
| Samples E1 and S1 | | 53 | | | 53 | 53 | 100 | |
| (0) Not specified | RV >>> | 53 | 100 | A subgroup A1 | | | | |
| Samples E2 and S2 | | 53 | | | 53 | 53 | 100 | |
| (0) Not specified | RV >>> | 53 | 100 | Not specified | | | | |
| (705) Rh D antigen (blood-donor) | | 95 | | | 95 | 95 | 100 | |
| Samples E1 and S1 | | 95 | | | 95 | 95 | 100 | |
| (1) Tube test | RV >>> | 30 | 32 | Positive (RhD+) | | | | |
| (2) Microplate - aut. | RV >>> | 16 | 17 | Positive (RhD+) | | | | |
| (3) Microplate - man. | RV >>> | 3 | 3,2 | Positive (RhD+) | | | | |
| (7) Column agglutination - automat | RV >>> | 25 | 26 | Positive (RhD+) | | | | |
| (9) Column agglutination - manual | RV >>> | 20 | 21 | Positive (RhD+) | | | | |
| (10) Solid phase | RV >>> | 1 | 1,1 | Positive (RhD+) | | | | |
| Samples E2 and S2 | | 95 | | | 95 | 95 | 100 | |
| (1) Tube test | RV >>> | 30 | 32 | Positive (RhD+) | | | | |
| (2) Microplate - aut. | RV >>> | 16 | 17 | Positive (RhD+) | | | | |
| (3) Microplate - man. | RV >>> | 3 | 3,2 | Positive (RhD+) | | | | |
| (7) Column agglutination - automat | RV >>> | 25 | 26 | Positive (RhD+) | | | | |
| (9) Column agglutination - manual | RV >>> | 20 | 21 | Positive (RhD+) | | | | |
| (10) Solid phase | RV >>> | 1 | 1,1 | Positive (RhD+) | | | | |
| (709) Rh D antigen (recipient/ pregnant/ newborn) | | 159 | | | 159 | 159 | 100 | |
| Samples E1 and S1 | | 159 | | | 159 | 159 | 100 | |
| (1) Tube test | RV >>> | 54 | 34 | Positive (RhD+) | | | | |
| (2) Microplate - aut. | RV >>> | 10 | 6,3 | Positive (RhD+) | | | | |
| (3) Microplate - man. | RV >>> | 5 | 3,1 | Positive (RhD+) | | | | |
| (7) Column agglutination - automat | RV >>> | 46 | 29 | Positive (RhD+) | | | | |
| (9) Column agglutination - manual | RV >>> | 43 | 27 | Positive (RhD+) | | | | |
| (10) Solid phase | RV >>> | 1 | 0,6 | Positive (RhD+) | | | | |
| Samples E2 and S2 | | 159 | | | 159 | 159 | 100 | |
| (1) Tube test | RV >>> | 54 | 34 | Positive (RhD+) | | | | |
| (2) Microplate - aut. | RV >>> | 10 | 6,3 | Positive (RhD+) | | | | |
| (3) Microplate - man. | RV >>> | 5 | 3,1 | Positive (RhD+) | | | | |
| (7) Column agglutination - automat | RV >>> | 46 | 29 | Positive (RhD+) | | | | |
| (9) Column agglutination - manual | RV >>> | 43 | 27 | Positive (RhD+) | | | | |
| (10) Solid phase | RV >>> | 1 | 0,6 | Positive (RhD+) | | | | |
| (715) Antigen C | | 88 | | | 88 | 88 | 100 | |
| Samples E1 and S1 | | 88 | | | 88 | 88 | 100 | |
| (1) Tube test | RV >>> | 19 | 22 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Positive | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Positive | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Positive | | | | |
| Samples E2 and S2 | | 88 | | | 88 | 88 | 100 | |
| (1) Tube test | RV >>> | 19 | 22 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Positive | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Positive | | | | |

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Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | | Success | | |
|------------------------------------|--------------------------|------------------|-------------------------|---------------|------------------|------------------|-------------------------|--|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Positive | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Positive | | | | |
| (716) Antigen c | | 88 | | | 88 | 87 | 99 | |
| Samples E1 and S1 | | 88 | | | 88 | 87 | 99 | |
| (1) Tube test | RV >>> | 19 | 22 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 21 | 24 | Negative | | | | |
| | | 1 | 1,1 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Negative | | | | |
| Samples E2 and S2 | | 88 | | | 88 | 88 | 100 | |
| (1) Tube test | RV >>> | 19 | 22 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Negative | | | | |
| (718) Antigen E | | 89 | | | 89 | 89 | 100 | |
| Samples E1 and S1 | | 89 | | | 89 | 89 | 100 | |
| (1) Tube test | RV >>> | 20 | 22 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,2 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 38 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,2 | Negative | | | | |
| Samples E2 and S2 | | 89 | | | 89 | 89 | 100 | |
| (1) Tube test | RV >>> | 20 | 22 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,2 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 38 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,2 | Negative | | | | |
| (719) Antigen e | | 88 | | | 88 | 88 | 100 | |
| Samples E1 and S1 | | 88 | | | 88 | 88 | 100 | |
| (1) Tube test | RV >>> | 19 | 22 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Positive | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Positive | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Positive | | | | |
| Samples E2 and S2 | | 88 | | | 88 | 88 | 100 | |
| (1) Tube test | RV >>> | 19 | 22 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 10 | Positive | | | | |
| (3) Microplate - man. | RV >>> | 2 | 2,3 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 22 | 25 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 34 | 39 | Positive | | | | |
| (10) Solid phase | RV >>> | 2 | 2,3 | Positive | | | | |
| (717) Antigen C^w | | 74 | | | 74 | 73 | 99 | |
| Samples E1 and S1 | | 74 | | | 74 | 74 | 100 | |
| (1) Tube test | RV >>> | 20 | 27 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 8 | 11 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 1 | 1,4 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 17 | 23 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 26 | 35 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,7 | Negative | | | | |
| Samples E2 and S2 | | 74 | | | 74 | 73 | 99 | |
| (1) Tube test | RV >>> | 20 | 27 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 8 | 11 | Negative | | | | |
| (3) Microplate - man. | RV >>> | 1 | 1,4 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 1 | 1,4 | Not specified | | | | |
| | RV >>> | 16 | 22 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 26 | 35 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 2,7 | Negative | | | | |
| (720) Antigen K | | 95 | | | 95 | 94 | 99 | |
| Samples E1 and S1 | | 95 | | | 95 | 94 | 99 | |
| (1) Tube test | RV >>> | 20 | 21 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 9 | 9,5 | Negative | | | | |

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Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | | Success | | |
|-------------------------------------|--------------------------|------------------|-------------------------|--------|------------------|------------------|-------------------------|-----|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| (3) Microplate - man. | RV | >>> | 1 | 1,1 | Negative | | | |
| (7) Column agglutination - automat | RV | >>> | 23 | 24 | Negative | | | |
| | | | 1 | 1,1 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 39 | 41 | Negative | | | |
| (10) Solid phase | RV | >>> | 2 | 2,1 | Negative | | | |
| Samples E2 and S2 | | | 95 | | | 95 | 95 | 100 |
| (1) Tube test | RV | >>> | 20 | 21 | Negative | | | |
| (2) Microplate - aut. | RV | >>> | 9 | 9,5 | Negative | | | |
| (3) Microplate - man. | RV | >>> | 1 | 1,1 | Negative | | | |
| (7) Column agglutination - automat | RV | >>> | 24 | 25 | Negative | | | |
| (9) Column agglutination - manual | RV | >>> | 39 | 41 | Negative | | | |
| (10) Solid phase | RV | >>> | 2 | 2,1 | Negative | | | |
| (721) Antigen k | | | 46 | | | 46 | 46 | 100 |
| Samples E1 and S1 | | | 46 | | | 46 | 46 | 100 |
| (1) Tube test | RV | >>> | 22 | 48 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 6 | 13 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 16 | 35 | Positive | | | |
| (10) Solid phase | RV | >>> | 2 | 4,3 | Positive | | | |
| Samples E2 and S2 | | | 46 | | | 46 | 46 | 100 |
| (1) Tube test | RV | >>> | 22 | 48 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 6 | 13 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 16 | 35 | Positive | | | |
| (10) Solid phase | RV | >>> | 2 | 4,3 | Positive | | | |
| (738) Antigen Kp^a | | | 16 | | | 16 | 16 | 100 |
| Samples E1 and S1 | | | 16 | | | 16 | 16 | 100 |
| (1) Tube test | RV | >>> | 6 | 38 | Negative | | | |
| (7) Column agglutination - automat | RV | >>> | 1 | 6,3 | Negative | | | |
| (9) Column agglutination - manual | RV | >>> | 9 | 56 | Negative | | | |
| Samples E2 and S2 | | | 16 | | | 16 | 16 | 100 |
| (1) Tube test | RV | >>> | 6 | 38 | Negative | | | |
| (7) Column agglutination - automat | RV | >>> | 1 | 6,3 | Negative | | | |
| (9) Column agglutination - manual | RV | >>> | 9 | 56 | Negative | | | |
| (739) Antigen Kp^b | | | 9 | | | 9 | 9 | 100 |
| Samples E1 and S1 | | | 9 | | | 9 | 9 | 100 |
| (1) Tube test | RV | >>> | 3 | 33 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 1 | 11 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 5 | 56 | Positive | | | |
| Samples E2 and S2 | | | 9 | | | 9 | 9 | 100 |
| (1) Tube test | RV | >>> | 3 | 33 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 1 | 11 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 5 | 56 | Positive | | | |
| (729) Antigen Jk^a | | | 42 | | | 42 | 42 | 100 |
| Samples E1 and S1 | | | 42 | | | 42 | 42 | 100 |
| (1) Tube test | RV | >>> | 21 | 50 | Negative | | | |
| (2) Microplate - aut. | RV | >>> | 3 | 7,1 | Negative | | | |
| (7) Column agglutination - automat | RV | >>> | 2 | 4,8 | Negative | | | |
| (9) Column agglutination - manual | RV | >>> | 16 | 38 | Negative | | | |
| Samples E2 and S2 | | | 42 | | | 42 | 42 | 100 |
| (1) Tube test | RV | >>> | 21 | 50 | Positive | | | |
| (2) Microplate - aut. | RV | >>> | 3 | 7,1 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 2 | 4,8 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 16 | 38 | Positive | | | |
| (730) Antigen Jk^b | | | 42 | | | 42 | 41 | 98 |
| Samples E1 and S1 | | | 42 | | | 42 | 41 | 98 |
| (1) Tube test | RV | >>> | 22 | 52 | Positive | | | |
| (2) Microplate - aut. | RV | >>> | 3 | 7,1 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 2 | 4,8 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 1 | 2,4 | Negative | | | |
| | RV | >>> | 14 | 33 | Positive | | | |
| Samples E2 and S2 | | | 42 | | | 42 | 41 | 98 |
| (1) Tube test | RV | >>> | 22 | 52 | Positive | | | |
| (2) Microplate - aut. | RV | >>> | 3 | 7,1 | Positive | | | |
| (7) Column agglutination - automat | RV | >>> | 2 | 4,8 | Positive | | | |
| (9) Column agglutination - manual | RV | >>> | 1 | 2,4 | Negative | | | |
| | RV | >>> | 14 | 33 | Positive | | | |
| (727) Antigen Fy^a | | | 43 | | | 43 | 43 | 100 |
| Samples E1 and S1 | | | 43 | | | 43 | 43 | 100 |
| (1) Tube test | RV | >>> | 15 | 35 | Positive | | | |
| (2) Microplate - aut. | RV | >>> | 1 | 2,3 | Positive | | | |

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Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | | Success | | |
|-------------------------------------|--------------------------|------------------|-------------------------|----------|------------------|------------------|-------------------------|--|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 22 | 51 | Positive | | | | |
| (10) Solid phase | RV >>> | 2 | 4,7 | Positive | | | | |
| Samples E2 and S2 | | 43 | | | 43 | 43 | 100 | |
| (1) Tube test | RV >>> | 15 | 35 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 1 | 2,3 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 22 | 51 | Negative | | | | |
| (10) Solid phase | RV >>> | 2 | 4,7 | Negative | | | | |
| (728) Antigen Fy^b | | 43 | | | 43 | 43 | 100 | |
| Samples E1 and S1 | | 43 | | | 43 | 43 | 100 | |
| (1) Tube test | RV >>> | 15 | 35 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 22 | 51 | Negative | | | | |
| Samples E2 and S2 | | 43 | | | 43 | 43 | 100 | |
| (1) Tube test | RV >>> | 15 | 35 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 22 | 51 | Positive | | | | |
| (722) Antigen M | | 42 | | | 42 | 42 | 100 | |
| Samples E1 and S1 | | 42 | | | 42 | 42 | 100 | |
| (1) Tube test | RV >>> | 21 | 50 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 2 | 4,8 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7,1 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 16 | 38 | Positive | | | | |
| Samples E2 and S2 | | 42 | | | 42 | 42 | 100 | |
| (1) Tube test | RV >>> | 21 | 50 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 2 | 4,8 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7,1 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 16 | 38 | Positive | | | | |
| (723) Antigen N | | 37 | | | 37 | 37 | 100 | |
| Samples E1 and S1 | | 37 | | | 37 | 37 | 100 | |
| (1) Tube test | RV >>> | 17 | 46 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 1 | 2,7 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 8,1 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 16 | 43 | Negative | | | | |
| Samples E2 and S2 | | 37 | | | 37 | 37 | 100 | |
| (1) Tube test | RV >>> | 17 | 46 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 1 | 2,7 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 8,1 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 16 | 43 | Positive | | | | |
| (724) Antigen S | | 43 | | | 43 | 43 | 100 | |
| Samples E1 and S1 | | 43 | | | 43 | 43 | 100 | |
| (1) Tube test | RV >>> | 20 | 47 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 17 | 40 | Negative | | | | |
| Samples E2 and S2 | | 43 | | | 43 | 43 | 100 | |
| (1) Tube test | RV >>> | 20 | 47 | Negative | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 17 | 40 | Negative | | | | |
| (725) Antigen s | | 41 | | | 41 | 41 | 100 | |
| Samples E1 and S1 | | 41 | | | 41 | 41 | 100 | |
| (1) Tube test | RV >>> | 17 | 41 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7,3 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7,3 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 18 | 44 | Positive | | | | |
| Samples E2 and S2 | | 41 | | | 41 | 41 | 100 | |
| (1) Tube test | RV >>> | 17 | 41 | Positive | | | | |
| (2) Microplate - aut. | RV >>> | 3 | 7,3 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 3 | 7,3 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 18 | 44 | Positive | | | | |
| (733) Antigen Le^a | | 35 | | | 35 | 35 | 100 | |
| Samples E1 and S1 | | 35 | | | 35 | 35 | 100 | |
| (1) Tube test | RV >>> | 20 | 57 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 5,7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 13 | 37 | Negative | | | | |

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Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | | Success | | |
|--|--------------------------|------------------|-------------------------|----------|------------------|------------------|-------------------------|-----|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| Samples E2 and S2 | | 35 | | | | 35 | 35 | 100 |
| (1) Tube test | RV >>> | 20 | 57 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 5,7 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 13 | 37 | Positive | | | | |
| (734) Antigen Le^b | | 35 | | | 35 | 31 | 89 | |
| Samples E1 and S1 | | 35 | | | 35 | 31 | 89 | |
| (1) Tube test | | 4 | 11 | Negative | | | | |
| | RV >>> | 16 | 46 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 5,7 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 13 | 37 | Positive | | | | |
| Samples E2 and S2 | | 35 | | | 35 | 35 | 100 | |
| (1) Tube test | RV >>> | 20 | 57 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 5,7 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 13 | 37 | Negative | | | | |
| (731) Antigen Lu^a | | 26 | | | 26 | 26 | 100 | |
| Samples E1 and S1 | | 26 | | | 26 | 26 | 100 | |
| (1) Tube test | RV >>> | 6 | 23 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 1 | 3,8 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 19 | 73 | Negative | | | | |
| Samples E2 and S2 | | 26 | | | 26 | 26 | 100 | |
| (1) Tube test | RV >>> | 6 | 23 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 1 | 3,8 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 19 | 73 | Negative | | | | |
| (732) Antigen Lu^b | | 25 | | | 25 | 25 | 100 | |
| Samples E1 and S1 | | 25 | | | 25 | 25 | 100 | |
| (1) Tube test | RV >>> | 9 | 36 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 8 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 14 | 56 | Positive | | | | |
| Samples E2 and S2 | | 25 | | | 25 | 25 | 100 | |
| (1) Tube test | RV >>> | 9 | 36 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 8 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 14 | 56 | Positive | | | | |
| (726) Antigen P1 | | 29 | | | 29 | 29 | 100 | |
| Samples E1 and S1 | | 29 | | | 29 | 29 | 100 | |
| (1) Tube test | RV >>> | 22 | 76 | Negative | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 6,9 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 5 | 17 | Negative | | | | |
| Samples E2 and S2 | | 29 | | | 29 | 29 | 100 | |
| (1) Tube test | RV >>> | 22 | 76 | Positive | | | | |
| (7) Column agglutination - automat | RV >>> | 2 | 6,9 | Positive | | | | |
| (9) Column agglutination - manual | RV >>> | 5 | 17 | Positive | | | | |
| (740) Antigen Wr^a | | 7 | | | 7 | 7 | 100 | |
| Samples E1 and S1 | | 7 | | | 7 | 7 | 100 | |
| (1) Tube test | RV >>> | 4 | 57 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 3 | 43 | Negative | | | | |
| Samples E2 and S2 | | 7 | | | 7 | 7 | 100 | |
| (1) Tube test | RV >>> | 4 | 57 | Negative | | | | |
| (9) Column agglutination - manual | RV >>> | 3 | 43 | Negative | | | | |
| (737) Direct Coombs (antiglobulin) test | | 140 | | | 140 | 140 | 100 | |
| Samples E1 and S1 | | 140 | | | 140 | 140 | 100 | |
| (1) Tube test: IAT | RV >>> | 5 | 3,6 | Negative | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 35 | 25 | Negative | | | | |
| (6) Microplate: IAT | RV >>> | 1 | 0,7 | Negative | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 98 | 70 | Negative | | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 1 | 0,7 | Negative | | | | |
| Samples E2 and S2 | | 140 | | | 140 | 140 | 100 | |
| (1) Tube test: IAT | RV >>> | 5 | 3,6 | Negative | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 35 | 25 | Negative | | | | |
| (6) Microplate: IAT | RV >>> | 1 | 0,7 | Negative | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 98 | 70 | Negative | | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 1 | 0,7 | Negative | | | | |
| (741) Antibody screening (IAT, blood donor) | | 87 | | | 87 | 87 | 100 | |
| Samples E1 and S1 | | 87 | | | 87 | 87 | 100 | |
| (1) Tube test: IAT | RV >>> | 2 | 2,3 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 25 | 29 | Positive | | | | |
| (5) Solid phase | RV >>> | 15 | 17 | Positive | | | | |
| (6) Microplate: IAT | RV >>> | 2 | 2,3 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 43 | 49 | Positive | | | | |

EQA round: IH4/23 - Blood Group Serology

Deadline: 17.11.2023

Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | | Success | | |
|---|--------------------------|------------------|-------------------------|--------------------------|------------------|------------------|-------------------------|-----|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] | |
| Samples E2 and S2 | | 87 | | | | 87 | 87 | 100 |
| (1) Tube test: IAT | RV >>> | 2 | 2,3 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 25 | 29 | Positive | | | | |
| (5) Solid phase | RV >>> | 15 | 17 | Positive | | | | |
| (6) Microplate: IAT | RV >>> | 2 | 2,3 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 43 | 49 | Positive | | | | |
| (743) Antibody screening (IAT, recipient) | | 151 | | | | 151 | 150 | 99 |
| Samples E1 and S1 | | 151 | | | | 151 | 151 | 100 |
| (1) Tube test: IAT | RV >>> | 1 | 0,7 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 43 | 28 | Positive | | | | |
| (5) Solid phase | RV >>> | 6 | 4 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 101 | 67 | Positive | | | | |
| Samples E2 and S2 | | 151 | | | | 151 | 150 | 99 |
| (1) Tube test: IAT | RV >>> | 1 | 0,7 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 43 | 28 | Positive | | | | |
| (5) Solid phase | RV >>> | 6 | 4 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 1 | 0,7 | Not specified | | | | |
| | RV >>> | 100 | 66 | Positive | | | | |
| (745) Antibody screening (IAT, pregnant) | | 121 | | | | 121 | 121 | 100 |
| Samples E1 and S1 | | 121 | | | | 121 | 121 | 100 |
| (1) Tube test: IAT | RV >>> | 2 | 1,7 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 38 | 31 | Positive | | | | |
| (5) Solid phase | RV >>> | 5 | 4,1 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 76 | 63 | Positive | | | | |
| Samples E2 and S2 | | 121 | | | | 121 | 121 | 100 |
| (1) Tube test: IAT | RV >>> | 2 | 1,7 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 38 | 31 | Positive | | | | |
| (5) Solid phase | RV >>> | 5 | 4,1 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 76 | 63 | Positive | | | | |
| (747) Antibody screening (enzyme test) | | 113 | | | | 113 | 113 | 100 |
| Samples E1 and S1 | | 113 | | | | 113 | 113 | 100 |
| (2) Tube test: enzyme | RV >>> | 2 | 1,8 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 1 | 0,9 | Positive | | | | |
| (4) Column agglut.: enzyme - automat | RV >>> | 27 | 24 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 7 | 6,2 | Positive | | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 76 | 67 | Positive | | | | |
| Samples E2 and S2 | | 113 | | | | 113 | 113 | 100 |
| (2) Tube test: enzyme | RV >>> | 2 | 1,8 | Positive | | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 1 | 0,9 | Positive | | | | |
| (4) Column agglut.: enzyme - automat | RV >>> | 27 | 24 | Positive | | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 7 | 6,2 | Positive | | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 76 | 67 | Positive | | | | |
| (750) Antibody identification | | 52 | | | | 52 | 50 | 96 |
| Samples E1 and S1 | | 52 | | | | 52 | 51 | 98 |
| (0) Not specified | RV >>> | 51 | 98 | anti-E; anti-K; anti-S | | | | |
| | | 1 | 1,9 | anti-E; anti-S; anti-Fyb | | | | |
| Samples E2 and S2 | | 52 | | | | 52 | 51 | 98 |
| (0) Not specified | RV >>> | 51 | 98 | anti-c | | | | |
| | | 1 | 1,9 | anti-c; anti-E; anti-Lua | | | | |
| (752) Antibody titre, Sample 1: 1st antibody | | 35 | | | | 0 | | |
| Samples E1 and S1 | | 35 | | | | 0 | | |
| (1) Tube + homozyg. expression | ± | 1 | 2,9 | titre 4 | | | | |
| | ± | 1 | 2,9 | titre 64 | | | | |
| (2) Tube + heterozyg. expression | ± | 1 | 2,9 | titre 16 | | | | |
| (3) Column agglut.+ homozyg. expres. | ± | 1 | 2,9 | titre 4 | | | | |
| | ± | 4 | 11 | titre 32 | | | | |
| | ± | 2 | 5,7 | titre 64 | | | | |
| (4) Column agglut.+ heterozyg. expres. | ± | 1 | 2,9 | titre 8 | | | | |
| | ± | 8 | 23 | titre 16 | | | | |
| | ± | 8 | 23 | titre 32 | | | | |
| | ± | 5 | 14 | titre 64 | | | | |
| | ± | 3 | 8,6 | titre 128 | | | | |
| (753) Antibody titre, Sample 1: 2nd antibody | | 33 | | | | 0 | | |
| Samples E1 and S1 | | 33 | | | | 0 | | |
| (0) Not specified | ± | 1 | 3 | titre 32 | | | | |
| (1) Tube + homozyg. expression | ± | 1 | 3 | titre 64 | | | | |
| (2) Tube + heterozyg. expression | ± | 3 | 9,1 | titre 16 | | | | |
| | ± | 1 | 3 | titre 32 | | | | |
| (3) Column agglut.+ homozyg. expres. | ± | 1 | 3 | titre 64 | | | | |

EQA round: IH4/23 - Blood Group Serology

Deadline: 17.11.2023

Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | Success | | |
|--|--------------------------|------------------|-------------------------|--|------------------|------------------|-------------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |
| (4) Column agglut.+ heterozyg. expres. | ± | 1 | 3 | titre 4 | | | |
| | ± | 1 | 3 | titre 8 | | | |
| | ± | 10 | 30 | titre 16 | | | |
| | ± | 11 | 33 | titre 32 | | | |
| | ± | 2 | 6,1 | titre 64 | | | |
| | ± | 1 | 3 | titre 128 | | | |
| (754) Antibody titre, Sample 1: 3rd antibody | | 35 | | | | 0 | |
| Samples E1 and S1 | | 35 | | | | 0 | |
| (0) Not specified | ± | 1 | 2,9 | titre 8 | | | |
| | ± | 1 | 2,9 | titre 16 | | | |
| (1) Tube + homozyg. expression | ± | 1 | 2,9 | titre 4 | | | |
| | ± | 1 | 2,9 | titre 8 | | | |
| (2) Tube + heterozyg. expression | ± | 1 | 2,9 | titre 8 | | | |
| | ± | 2 | 5,7 | titre 16 | | | |
| (3) Column agglut.+ homozyg. expres. | ± | 2 | 5,7 | titre 16 | | | |
| | ± | 2 | 5,7 | titre 32 | | | |
| (4) Column agglut.+ heterozyg. expres. | ± | 2 | 5,7 | titre 4 | | | |
| | ± | 6 | 17 | titre 8 | | | |
| | ± | 10 | 29 | titre 16 | | | |
| | ± | 2 | 5,7 | titre 32 | | | |
| | ± | 4 | 11 | titre 64 | | | |
| (756) Antibody titre, Sample 2: 1st antibody | | 35 | | | | 0 | |
| Samples E2 and S2 | | 35 | | | | 0 | |
| (1) Tube + homozyg. expression | ± | 2 | 5,7 | titre 8 | | | |
| (2) Tube + heterozyg. expression | ± | 1 | 2,9 | titre 2 | | | |
| | ± | 1 | 2,9 | titre 4 | | | |
| | ± | 1 | 2,9 | titre 8 | | | |
| (3) Column agglut.+ homozyg. expres. | ± | 2 | 5,7 | titre 8 | | | |
| | ± | 2 | 5,7 | titre 16 | | | |
| | ± | 1 | 2,9 | titre 64 | | | |
| (4) Column agglut.+ heterozyg. expres. | ± | 2 | 5,7 | titre 1 | | | |
| | ± | 6 | 17 | titre 2 | | | |
| | ± | 10 | 29 | titre 4 | | | |
| | ± | 6 | 17 | titre 8 | | | |
| | ± | 1 | 2,9 | titre 16 | | | |
| Set 3 | | | | | | | |
| (760) Crossmatch | | 134 | | | | 134 | 133 99 |
| Sample S1 | | 134 | | | | 134 | 134 100 |
| All results | RV >>> | 134 | 100 | Crossmatch successful | | | |
| Sample S2 | | 134 | | | | 134 | 133 99 |
| All results | RV >>> | 1 | 0,7 | Crossmatch not successful | | | |
| | RV >>> | 133 | 99 | Crossmatch successful | | | |
| (761) Crossmatch (segment K1) | | 134 | | | | 134 | 133 99 |
| Sample S1 | | 134 | | | | 134 | 134 100 |
| (1) Tube test: IAT | RV >>> | 1 | 0,7 | Positive test | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 29 | 22 | Positive test | | | |
| (5) Solid phase | RV >>> | 3 | 2,2 | Positive test | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 99 | 74 | Positive test | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 1 | 0,7 | Positive test | | | |
| (99) Another measurement principle | RV >>> | 1 | 0,7 | Positive test | | | |
| Sample S2 | | 134 | | | | 134 | 133 99 |
| (1) Tube test: IAT | RV >>> | 1 | 0,7 | Positive test | | | |
| (3) Column agglut.: IAT - automat | RV >>> | 29 | 22 | Positive test | | | |
| (5) Solid phase | RV >>> | 1 | 0,7 | Negative test | | | |
| | RV >>> | 2 | 1,5 | Positive test | | | |
| (8) Column agglut.: IAT - manual | RV >>> | 1 | 0,7 | Not specified | | | |
| | RV >>> | 98 | 73 | Positive test | | | |
| (9) Column agglut.: enzyme - manual | RV >>> | 1 | 0,7 | Positive test | | | |
| (99) Another measurement principle | RV >>> | 1 | 0,7 | Positive test | | | |
| (762) Serve transfusion product? (segment K1) | | 134 | | | | 0 | |
| (transfusion in non-emergency mode) | | 134 | | | | 0 | |
| Sample S1 | | 134 | | | | 0 | |
| (0) Not specified | ± | 133 | 99 | Impossible, risk of haemolysis | | | |
| | ± | 1 | 0,7 | Decision depends on results of other tests not performed in our laboratory | | | |
| Sample S2 | | 134 | | | | 0 | |
| (0) Not specified | ± | 133 | 99 | Impossible, risk of haemolysis | | | |

EQA round: IH4/23 - Blood Group Serology

Deadline: 17.11.2023

Setup: groups - M (measurement principle)

| Test Sample Group | Frequency of the results | | | | Success | | |
|--|--------------------------|------------------|-------------------------|--|------------------|------------------|-------------------------|
| | AV | N _{tot} | N _{rel} [%] | Result | N _{eva} | N _{suc} | S _{rel} [%] |
| | ± | 1 | 0,7 | Decision depends on results of other tests not performed in our laboratory | | | |
| (764) Crossmatch (segment K2) | | 134 | | | 134 | 134 | 100 |
| Sample S1 | | 134 | | | 134 | 134 | 100 |
| (1) Tube test: IAT | RV | >>> | 1 | 0,7 | Positive test | | |
| (3) Column agglut.: IAT - automat | RV | >>> | 29 | 22 | Positive test | | |
| (5) Solid phase | RV | >>> | 3 | 2,2 | Positive test | | |
| (8) Column agglut.: IAT - manual | RV | >>> | 99 | 74 | Positive test | | |
| (9) Column agglut.: enzyme - manual | RV | >>> | 1 | 0,7 | Positive test | | |
| (99) Another measurement principle | RV | >>> | 1 | 0,7 | Positive test | | |
| Sample S2 | | 134 | | | 134 | 134 | 100 |
| (1) Tube test: IAT | RV | >>> | 1 | 0,7 | Negative test | | |
| (3) Column agglut.: IAT - automat | RV | >>> | 29 | 22 | Negative test | | |
| (5) Solid phase | RV | >>> | 3 | 2,2 | Negative test | | |
| (8) Column agglut.: IAT - manual | RV | >>> | 99 | 74 | Negative test | | |
| (9) Column agglut.: enzyme - manual | RV | >>> | 1 | 0,7 | Negative test | | |
| (99) Another measurement principle | RV | >>> | 1 | 0,7 | Negative test | | |
| (765) Serve transfusion product? (segment K2) (transfusion in non-emergency mode) | | 134 | | | 0 | | |
| Sample S1 | | 134 | | | 0 | | |
| (0) Not specified | ± | 132 | 99 | Impossible, risk of haemolysis | | | |
| | ± | 2 | 1,5 | Decision depends on results of other tests not performed in our laboratory | | | |
| Sample S2 | | 134 | | | 0 | | |
| (0) Not specified | ± | 78 | 58 | Decision depends on results of other tests not performed in our laboratory | | | |
| | ± | 4 | 3 | Only if more suitable products are not available | | | |
| | ± | 52 | 39 | Possible | | | |