

**Summary statistics - qualitative results****EQA round: PAT1/25 - Direct Antiglobulin Test**

Deadline: 30.5.2025

Setup: groups - M (measurement principle)

AV = assigned value RV = reference value >> ... expected result > ... acceptable result ± ... result not assessed	N <sub>tot</sub> = total number of the results N <sub>rel</sub> = relative number of the results	N <sub>eva</sub> = number of the results assessed N <sub>suc</sub> = number of successful results S <sub>rel</sub> = relative success
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Test Sample Group	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Frequency of the results		N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
				Result				
(1001) Direct Antiglobulin Test		93				93	93	100
<b>Sample 1</b>		93				93	93	100
(1) Column agglutination - automat	RV	>	2	2,2 Positive (2+)				
		>>>	23	25 Positive (3+)				
		>	3	3,2 Positive (4+)				
(2) Column agglutination - manual	RV	>	3	3,2 Positive (2+)				
		>>>	48	52 Positive (3+)				
		>	13	14 Positive (4+)				
(3) Tube test	RV	>>>	1	1,1 Positive (3+)				
<b>Sample 2</b>		93				93	93	100
(1) Column agglutination - automat	RV	>	2	2,2 Positive (2+)				
		>>>	22	24 Positive (3+)				
		>	4	4,3 Positive (4+)				
(2) Column agglutination - manual	RV	>	2	2,2 Positive (2+)				
		>>>	53	57 Positive (3+)				
		>	9	9,7 Positive (4+)				
(3) Tube test	RV	>>>	1	1,1 Positive (3+)				
(1002) Sensitization specificity anti-IgG		43				43	43	100
<b>Sample 1</b>		43				43	43	100
(1) Column agglutination - automat	RV	>>>	5	12 Positive (3+)				
		>	2	4,7 Positive (4+)				
(2) Column agglutination - manual	RV	>	1	2,3 Positive (2+)				
		>>>	27	63 Positive (3+)				
		>	8	19 Positive (4+)				
<b>Sample 2</b>		43				43	43	100
(1) Column agglutination - automat	RV	>	1	2,3 Positive (2+)				
		>>>	3	7 Positive (3+)				
		>	3	7 Positive (4+)				
(2) Column agglutination - manual	RV	>	2	4,7 Positive (2+)				
		>>>	28	65 Positive (3+)				
		>	6	14 Positive (4+)				
(1003) Sensitization specificity anti-IgA		33				33	33	100
<b>Sample 1</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
<b>Sample 2</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
(1004) Sensitization specificity anti-IgM		33				33	33	100
<b>Sample 1</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
<b>Sample 2</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
(1005) Sensitization specificity anti-C3c		33				33	33	100
<b>Sample 1</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
<b>Sample 2</b>		33				33	33	100
(1) Column agglutination - automat	RV	>>>	2	6,1 Negative				
(2) Column agglutination - manual	RV	>>>	31	94 Negative				
(1006) Sensitization specificity anti-C3d		40				40	40	100
<b>Sample 1</b>		40				40	40	100
(1) Column agglutination - automat	RV	>>>	5	13 Negative				
(2) Column agglutination - manual	RV	>>>	35	88 Negative				
<b>Sample 2</b>		40				40	40	100
(1) Column agglutination - automat	RV	>>>	5	13 Negative				
(2) Column agglutination - manual	RV	>>>	35	88 Negative				
(1008) Col. agglut: Quantif. IgG-DAT		24				24	24	100
<b>Sample 1</b>		24				24	24	100
(1) Column agglutination - automat	RV	>>>	1	4,2 1:100				
(2) Column agglutination - manual		>	3	13 1:30				
	RV	>>>	20	83 1:100				

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				Result		N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>Sample 2</b>		24				24	24	100
(1) Column agglutination - automat	RV	>>>	1	4,2	1:30			
(2) Column agglutination - manual		>	10	42	1:10			
	RV	>>>	13	54	1:30			
<b>(1009) Col. agglut: Subclass IgG1 1:1</b>		25				25	24	96
<b>Sample 1</b>		25				25	24	96
(1) Column agglutination - automat	RV	>>>	1	4	Negative			
(2) Column agglutination - manual	RV	>>>	23	92	Negative			
			1	4	Positive (1+)			
<b>Sample 2</b>		25				25	25	100
(1) Column agglutination - automat	RV	>>>	1	4	Positive (1+)			
(2) Column agglutination - manual	RV	>>>	2	8	Negative			
	RV	>>>	10	40	Positive (1+)			
	RV	>>>	12	48	Positive (2+)			
<b>(1010) Col. agglut: Subclass IgG1 1:100</b>		25				25	25	100
<b>Sample 1</b>		25				25	25	100
(1) Column agglutination - automat	RV	>>>	2	8	Negative			
(2) Column agglutination - manual	RV	>>>	23	92	Negative			
<b>Sample 2</b>		25				25	25	100
(1) Column agglutination - automat	RV	>>>	2	8	Negative			
(2) Column agglutination - manual	RV	>>>	23	92	Negative			
<b>(1011) Col. agglut: Subclass IgG3 1:1</b>		26				26	26	100
<b>Sample 1</b>		26				26	26	100
(1) Column agglutination - automat	RV	>>>	2	7,7	Negative			
(2) Column agglutination - manual	RV	>>>	24	92	Negative			
<b>Sample 2</b>		26				26	26	100
(1) Column agglutination - automat	RV	>>>	2	7,7	Negative			
(2) Column agglutination - manual	RV	>>>	24	92	Negative			
<b>(1012) Col. agglut: Subclass IgG3 1:100</b>		25				25	25	100
<b>Sample 1</b>		25				25	25	100
(1) Column agglutination - automat	RV	>>>	2	8	Negative			
(2) Column agglutination - manual	RV	>>>	23	92	Negative			
<b>Sample 2</b>		25				25	25	100
(1) Column agglutination - automat	RV	>>>	2	8	Negative			
(2) Column agglutination - manual	RV	>>>	23	92	Negative			
<b>(1019) ABO blood group</b>		60				60	60	100
<b>Sample 1</b>		60				60	60	100
(1) Column agglutination - automat	RV	>>>	20	33	Blood group: 0			
(2) Column agglutination - manual	RV	>>>	23	38	Blood group: 0			
(3) Tube test	RV	>>>	15	25	Blood group: 0			
(4) Solid phase	RV	>>>	2	3,3	Blood group: 0			
<b>Sample 2</b>		60				60	60	100
(1) Column agglutination - automat	RV	>>>	20	33	Blood group: B			
(2) Column agglutination - manual	RV	>>>	23	38	Blood group: B			
(3) Tube test	RV	>>>	15	25	Blood group: B			
(4) Solid phase	RV	>>>	2	3,3	Blood group: B			
<b>(1020) RhD antigen</b>		60				60	56	93
<b>Sample 1</b>		60				60	60	100
(1) Column agglutination - automat	RV	>>>	21	35	Positive (RhD+)			
(2) Column agglutination - manual	RV	>>>	22	37	Positive (RhD+)			
(3) Tube test	RV	>>>	15	25	Positive (RhD+)			
(4) Solid phase	RV	>>>	2	3,3	Positive (RhD+)			
<b>Sample 2</b>		60				60	56	93
(1) Column agglutination - automat	RV	>>>	20	33	Negative (RhD-)			
			1	1,7	w/v (RhD weak/variant)			
(2) Column agglutination - manual	RV	>>>	21	35	Negative (RhD-)			
			1	1,7	w/v (RhD weak/variant)			
(3) Tube test	RV	>>>	14	23	Negative (RhD-)			
			1	1,7	w/v (RhD weak/variant)			
(4) Solid phase	RV	>>>	1	1,7	Negative (RhD-)			
			1	1,7	w/v (RhD weak/variant)			
<b>(1021) Antigen C</b>		47				47	47	100
<b>Sample 1</b>		47				47	47	100
(1) Column agglutination - automat	RV	>>>	12	26	Positive			
(2) Column agglutination - manual	RV	>>>	22	47	Positive			
(3) Tube test	RV	>>>	10	21	Positive			
(4) Solid phase	RV	>>>	3	6,4	Positive			
<b>Sample 2</b>		47				47	47	100
(1) Column agglutination - automat	RV	>>>	12	26	Negative			

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				Result		
(2) Column agglutination - manual	RV >>>	22	47	Negative		
(3) Tube test	RV >>>	10	21	Negative		
(4) Solid phase	RV >>>	3	6,4	Negative		
<b>(1022) Antigen c</b>		47				47 47 100
<b>Sample 1</b>		47				47 47 100
(1) Column agglutination - automat	RV >>>	12	26	Negative		
(2) Column agglutination - manual	RV >>>	22	47	Negative		
(3) Tube test	RV >>>	10	21	Negative		
(4) Solid phase	RV >>>	3	6,4	Negative		
<b>Sample 2</b>		47				47 47 100
(1) Column agglutination - automat	RV >>>	12	26	Positive		
(2) Column agglutination - manual	RV >>>	22	47	Positive		
(3) Tube test	RV >>>	10	21	Positive		
(4) Solid phase	RV >>>	3	6,4	Positive		
<b>(1024) Antigen E</b>		48				48 48 100
<b>Sample 1</b>		48				48 48 100
(1) Column agglutination - automat	RV >>>	12	25	Negative		
(2) Column agglutination - manual	RV >>>	22	46	Negative		
(3) Tube test	RV >>>	11	23	Negative		
(4) Solid phase	RV >>>	3	6,3	Negative		
<b>Sample 2</b>		48				48 48 100
(1) Column agglutination - automat	RV >>>	12	25	Negative		
(2) Column agglutination - manual	RV >>>	22	46	Negative		
(3) Tube test	RV >>>	11	23	Negative		
(4) Solid phase	RV >>>	3	6,3	Negative		
<b>(1025) Antigen e</b>		47				47 46 98
<b>Sample 1</b>		47				47 46 98
(1) Column agglutination - automat	RV >>>	12	26	Positive		
(2) Column agglutination - manual	RV >>>	1	2,1	Negative		
	RV >>>	21	45	Positive		
(3) Tube test	RV >>>	10	21	Positive		
(4) Solid phase	RV >>>	3	6,4	Positive		
<b>Sample 2</b>		47				47 47 100
(1) Column agglutination - automat	RV >>>	12	26	Positive		
(2) Column agglutination - manual	RV >>>	22	47	Positive		
(3) Tube test	RV >>>	10	21	Positive		
(4) Solid phase	RV >>>	3	6,4	Positive		
<b>(1023) Antigen C<sup>w</sup></b>		40				40 40 100
<b>Sample 1</b>		40				40 40 100
(1) Column agglutination - automat	RV >>>	7	18	Negative		
(2) Column agglutination - manual	RV >>>	18	45	Negative		
(3) Tube test	RV >>>	12	30	Negative		
(4) Solid phase	RV >>>	3	7,5	Negative		
<b>Sample 2</b>		40				40 40 100
(1) Column agglutination - automat	RV >>>	7	18	Negative		
(2) Column agglutination - manual	RV >>>	18	45	Negative		
(3) Tube test	RV >>>	12	30	Negative		
(4) Solid phase	RV >>>	3	7,5	Negative		
<b>(1026) Antigen K</b>		49				49 49 100
<b>Sample 1</b>		49				49 49 100
(1) Column agglutination - automat	RV >>>	12	24	Positive		
(2) Column agglutination - manual	RV >>>	23	47	Positive		
(3) Tube test	RV >>>	11	22	Positive		
(4) Solid phase	RV >>>	3	6,1	Positive		
<b>Sample 2</b>		49				49 49 100
(1) Column agglutination - automat	RV >>>	12	24	Negative		
(2) Column agglutination - manual	RV >>>	23	47	Negative		
(3) Tube test	RV >>>	11	22	Negative		
(4) Solid phase	RV >>>	3	6,1	Negative		
<b>(1027) Antigen k</b>		25				25 25 100
<b>Sample 1</b>		25				25 25 100
(1) Column agglutination - automat	RV >>>	1	4	Positive		
(2) Column agglutination - manual	RV >>>	7	28	Positive		
(3) Tube test	RV >>>	17	68	Positive		
<b>Sample 2</b>		25				25 25 100
(1) Column agglutination - automat	RV >>>	1	4	Positive		
(2) Column agglutination - manual	RV >>>	7	28	Positive		
(3) Tube test	RV >>>	17	68	Positive		

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				Result		N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
(1039) Antigen Kp <sup>a</sup>		4				4	2	50
<b>Sample 1</b>		4				4	2	50
(2) Column agglutination - manual	RV	>>>	2	50 Negative				
			2	50 Positive				
<b>Sample 2</b>		4				4	3	75
(2) Column agglutination - manual	RV	>>>	3	75 Negative				
			1	25 Positive				
(1040) Antigen Kp <sup>b</sup>		3				3	3	100
<b>Sample 1</b>		3				3	3	100
(2) Column agglutination - manual	RV	>>>	3	100 Positive				
<b>Sample 2</b>		3				3	3	100
(2) Column agglutination - manual	RV	>>>	3	100 Positive				
(1033) Antigen Jk <sup>a</sup>		28				28	28	100
<b>Sample 1</b>		28				28	28	100
(1) Column agglutination - automat	RV	>>>	1	3,6 Positive				
(2) Column agglutination - manual	RV	>>>	6	21 Positive				
(3) Tube test	RV	>>>	21	75 Positive				
<b>Sample 2</b>		28				28	28	100
(1) Column agglutination - automat	RV	>>>	1	3,6 Positive				
(2) Column agglutination - manual	RV	>>>	6	21 Positive				
(3) Tube test	RV	>>>	21	75 Positive				
(1034) Antigen Jk <sup>b</sup>		28				28	28	100
<b>Sample 1</b>		28				28	28	100
(1) Column agglutination - automat	RV	>>>	1	3,6 Positive				
(2) Column agglutination - manual	RV	>>>	6	21 Positive				
(3) Tube test	RV	>>>	20	71 Positive				
(4) Solid phase	RV	>>>	1	3,6 Positive				
<b>Sample 2</b>		28				28	28	100
(1) Column agglutination - automat	RV	>>>	1	3,6 Positive				
(2) Column agglutination - manual	RV	>>>	6	21 Positive				
(3) Tube test	RV	>>>	20	71 Positive				
(4) Solid phase	RV	>>>	1	3,6 Positive				
(1028) Antigen M		26				26	26	100
<b>Sample 1</b>		26				26	26	100
(1) Column agglutination - automat	RV	>>>	1	3,8 Positive				
(2) Column agglutination - manual	RV	>>>	7	27 Positive				
(3) Tube test	RV	>>>	18	69 Positive				
<b>Sample 2</b>		26				26	26	100
(1) Column agglutination - automat	RV	>>>	1	3,8 Positive				
(2) Column agglutination - manual	RV	>>>	7	27 Positive				
(3) Tube test	RV	>>>	18	69 Positive				
(1029) Antigen N		24				24	22	92
<b>Sample 1</b>		24				24	24	100
(1) Column agglutination - automat	RV	>>>	1	4,2 Positive				
(2) Column agglutination - manual	RV	>>>	7	29 Positive				
(3) Tube test	RV	>>>	16	67 Positive				
<b>Sample 2</b>		24				24	22	92
(1) Column agglutination - automat	RV	>>>	1	4,2 Negative				
(2) Column agglutination - manual	RV	>>>	7	29 Negative				
(3) Tube test	RV	>>>	14	58 Negative				
			2	8,3 Positive				
(1030) Antigen S		24				24	23	96
<b>Sample 1</b>		24				24	23	96
(2) Column agglutination - manual	RV	>>>	2	8,3 Negative				
			1	4,2 Positive				
(3) Tube test	RV	>>>	21	88 Negative				
<b>Sample 2</b>		24				24	24	100
(2) Column agglutination - manual	RV	>>>	3	13 Positive				
(3) Tube test	RV	>>>	21	88 Positive				
(1031) Antigen s		18				18	15	83
<b>Sample 1</b>		18				18	18	100
(2) Column agglutination - manual	RV	>>>	3	17 Positive				
(3) Tube test	RV	>>>	15	83 Positive				
<b>Sample 2</b>		18				18	15	83
(2) Column agglutination - manual	RV	>>>	2	11 Negative				
			1	5,6 Positive				
(3) Tube test	RV	>>>	13	72 Negative				
			2	11 Positive				

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				Result		N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
(1035) Antigen Le <sup>a</sup>		18				18	16	89
<b>Sample 1</b>		18				18	16	89
(2) Column agglutination - manual	RV	>>>	4	22 Negative				
			1	5,6 Positive				
(3) Tube test	RV	>>>	12	67 Negative				
			1	5,6 Positive				
<b>Sample 2</b>		18				18	18	100
(2) Column agglutination - manual	RV	>>>	5	28 Negative				
(3) Tube test	RV	>>>	13	72 Negative				
(1036) Antigen Le <sup>b</sup>		18				18	18	100
<b>Sample 1</b>		18				18	18	100
(2) Column agglutination - manual	RV	>>>	5	28 Positive				
(3) Tube test	RV	>>>	13	72 Positive				
<b>Sample 2</b>		18				18	18	100
(2) Column agglutination - manual	RV	>>>	5	28 Positive				
(3) Tube test	RV	>>>	13	72 Positive				
(1032) Antigen P1		19				19	16	84
<b>Sample 1</b>		19				19	16	84
(2) Column agglutination - manual	RV	>>>	1	5,3 Negative				
			2	11 Positive				
(3) Tube test	RV	>>>	15	79 Negative				
			1	5,3 Positive				
<b>Sample 2</b>		19				19	19	100
(2) Column agglutination - manual	RV	>>>	3	16 Positive				
(3) Tube test	RV	>>>	16	84 Positive				