

## EQA round: PAT1/23 - Direct Antiglobulin Test

Deadline: 2.6.2023

Setup: groups - measurement principle

AV = assigned value

N<sub>tot</sub> = total number of the resultsN<sub>eva</sub> = number of the results assessed

RV = reference value

N<sub>rel</sub> = relative number of the resultsN<sub>suc</sub> = number of successful results

&gt;&gt;&gt; ... expected result

S<sub>rel</sub> = relative success

&gt; ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results				Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>(1001) DAT (direct Coombs test)</b>		87			87	76	87
<b>Sample 1</b>		87			87	86	99
(1) Column agglutination - automat		> 11	13	Positive (3+)			
	RV	>>> 10	11	Positive (4+)			
(2) Column agglutination - manual		> 1	1,1	Negative			
	RV	>>> 15	17	Positive (3+)			
		>>> 49	56	Positive (4+)			
(3) Tube test		> 1	1,1	Positive (3+)			
<b>Sample 2</b>		87			87	77	89
(1) Column agglutination - automat		> 3	3,4	Negative			
	RV	>>> 18	21	Positive (1+)			
(2) Column agglutination - manual		> 7	8	Negative			
	RV	>>> 50	57	Positive (1+)			
		> 7	8	Positive (2+)			
		> 1	1,1	Positive (4+)			
(3) Tube test	RV	>>> 1	1,1	Positive (1+)			
<b>(1002) Sensitization specificity anti-IgG</b>		41			41	38	93
<b>Sample 1</b>		41			41	41	100
(1) Column agglutination - automat		> 2	4,9	Positive (3+)			
	RV	>>> 2	4,9	Positive (4+)			
(2) Column agglutination - manual		> 10	24	Positive (3+)			
	RV	>>> 27	66	Positive (4+)			
<b>Sample 2</b>		41			41	38	93
(1) Column agglutination - automat	RV	>>> 4	9,8	Positive (1+)			
(2) Column agglutination - manual		> 3	7,3	Negative			
	RV	>>> 31	76	Positive (1+)			
		> 3	7,3	Positive (2+)			
<b>(1003) Sensitization specificity anti-IgA</b>		32			32	32	100
<b>Sample 1</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 31	97	Negative			
<b>Sample 2</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 31	97	Negative			
<b>(1004) Sensitization specificity anti-IgM</b>		32			32	32	100
<b>Sample 1</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 31	97	Negative			
<b>Sample 2</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 31	97	Negative			
<b>(1005) Sensitization specificity anti-C3c</b>		32			32	32	100
<b>Sample 1</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 22	69	Negative			
	RV	>>> 7	22	Positive (1+)			
	RV	>>> 2	6,3	Positive (2+)			
<b>Sample 2</b>		32			32	32	100
(1) Column agglutination - automat	RV	>>> 1	3,1	Negative			
(2) Column agglutination - manual	RV	>>> 31	97	Negative			
<b>(1006) Sensitization specificity anti-C3d</b>		38			38	38	100
<b>Sample 1</b>		38			38	38	100
(1) Column agglutination - automat	RV	>>> 2	5,3	Positive (2+)			
(2) Column agglutination - manual		> 2	5,3	Positive (1+)			
	RV	>>> 27	71	Positive (2+)			
		> 7	18	Positive (3+)			
<b>Sample 2</b>		38			38	38	100
(1) Column agglutination - automat	RV	>>> 2	5,3	Negative			
(2) Column agglutination - manual	RV	>>> 36	95	Negative			
<b>(1008) Col. agglut: Quantif. IgG-DAT</b>		22			22	19	86
<b>Sample 1</b>		22			22	22	100
(1) Column agglutination - automat	RV	>>> 1	4,5	1:100			
(2) Column agglutination - manual	RV	>>> 20	91	1:100			
		> 1	4,5	1:300			

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Test Sample Group	AV	N <sub>tot</sub>	Frequency of the results			Success		
			N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
<b>Sample 2</b>		22				22	19	86
(1) Column agglutination - automat	RV >>>	1	4,5	Negative				
(2) Column agglutination - manual		2	9,1	Not specified				
	RV >>>	18	82	Negative				
		1	4,5	1:10				
<b>(1009) Col. agglut: Subclass IgG1 1:1</b>		23				23	21	91
<b>Sample 1</b>		23				23	23	100
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual	RV >>>	22	96	Negative				
<b>Sample 2</b>		23				23	21	91
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual		2	8,7	Not specified				
	RV >>>	20	87	Negative				
<b>(1010) Col. agglut: Subclass IgG1 1:100</b>		23				23	21	91
<b>Sample 1</b>		23				23	23	100
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual	RV >>>	22	96	Negative				
<b>Sample 2</b>		23				23	21	91
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual		2	8,7	Not specified				
	RV >>>	20	87	Negative				
<b>(1011) Col. agglut: Subclass IgG3 1:1</b>		23				23	21	91
<b>Sample 1</b>		23				23	23	100
(1) Column agglutination - automat	RV >>>	1	4,3	Positive (4+)				
(2) Column agglutination - manual	>	4	17	Positive (3+)				
	RV >>>	18	78	Positive (4+)				
<b>Sample 2</b>		23				23	21	91
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual		2	8,7	Not specified				
	RV >>>	20	87	Negative				
<b>(1012) Col. agglut: Subclass IgG3 1:100</b>		23				23	21	91
<b>Sample 1</b>		23				23	23	100
(1) Column agglutination - automat	RV >>>	1	4,3	Positive (2+)				
(2) Column agglutination - manual	RV >>>	9	39	Positive (2+)				
	>	13	57	Positive (3+)				
<b>Sample 2</b>		23				23	21	91
(1) Column agglutination - automat	RV >>>	1	4,3	Negative				
(2) Column agglutination - manual		2	8,7	Not specified				
	RV >>>	20	87	Negative				
<b>(1019) AB0 blood group</b>		58				58	58	100
<b>Sample 1</b>		58				58	58	100
(1) Column agglutination - automat	RV >>>	15	26	Blood group: B				
(2) Column agglutination - manual	RV >>>	21	36	Blood group: B				
(3) Tube test	RV >>>	19	33	Blood group: B				
(4) Solid phase	RV >>>	2	3,4	Blood group: B				
(99) Another measurement principle	RV >>>	1	1,7	Blood group: B				
<b>Sample 2</b>		58				58	58	100
(1) Column agglutination - automat	RV >>>	15	26	Blood group: 0				
(2) Column agglutination - manual	RV >>>	21	36	Blood group: 0				
(3) Tube test	RV >>>	19	33	Blood group: 0				
(4) Solid phase	RV >>>	2	3,4	Blood group: 0				
(99) Another measurement principle	RV >>>	1	1,7	Blood group: 0				
<b>(1020) Rh D antigen</b>		58				58	58	100
<b>Sample 1</b>		58				58	58	100
(1) Column agglutination - automat	RV >>>	15	26	Positive (RhD+)				
(2) Column agglutination - manual	RV >>>	21	36	Positive (RhD+)				
(3) Tube test	RV >>>	20	34	Positive (RhD+)				
(4) Solid phase	RV >>>	1	1,7	Positive (RhD+)				
(99) Another measurement principle	RV >>>	1	1,7	Positive (RhD+)				
<b>Sample 2</b>		58				58	58	100
(1) Column agglutination - automat	RV >>>	15	26	Positive (RhD+)				
(2) Column agglutination - manual	RV >>>	21	36	Positive (RhD+)				
(3) Tube test	RV >>>	20	34	Positive (RhD+)				
(4) Solid phase	RV >>>	1	1,7	Positive (RhD+)				
(99) Another measurement principle	RV >>>	1	1,7	Positive (RhD+)				
<b>(1021) Antigen C</b>		48				48	48	100
<b>Sample 1</b>		48				48	48	100
(1) Column agglutination - automat	RV >>>	10	21	Positive				
(2) Column agglutination - manual	RV >>>	23	48	Positive				

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	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
(3) Tube test	RV	>>>	12	25	Positive			
(4) Solid phase	RV	>>>	2	4,2	Positive			
(99) Another measurement principle	RV	>>>	1	2,1	Positive			
<b>Sample 2</b>			48			48	48	100
(1) Column agglutination - automat	RV	>>>	10	21	Negative			
(2) Column agglutination - manual	RV	>>>	23	48	Negative			
(3) Tube test	RV	>>>	12	25	Negative			
(4) Solid phase	RV	>>>	2	4,2	Negative			
(99) Another measurement principle	RV	>>>	1	2,1	Negative			
<b>(1022) Antigen c</b>			48			48	48	100
<b>Sample 1</b>			48			48	48	100
(1) Column agglutination - automat	RV	>>>	10	21	Positive			
(2) Column agglutination - manual	RV	>>>	23	48	Positive			
(3) Tube test	RV	>>>	12	25	Positive			
(4) Solid phase	RV	>>>	2	4,2	Positive			
(99) Another measurement principle	RV	>>>	1	2,1	Positive			
<b>Sample 2</b>			48			48	48	100
(1) Column agglutination - automat	RV	>>>	10	21	Positive			
(2) Column agglutination - manual	RV	>>>	23	48	Positive			
(3) Tube test	RV	>>>	12	25	Positive			
(4) Solid phase	RV	>>>	2	4,2	Positive			
(99) Another measurement principle	RV	>>>	1	2,1	Positive			
<b>(1024) Antigen E</b>			49			49	49	100
<b>Sample 1</b>			49			49	49	100
(1) Column agglutination - automat	RV	>>>	10	20	Negative			
(2) Column agglutination - manual	RV	>>>	23	47	Negative			
(3) Tube test	RV	>>>	13	27	Negative			
(4) Solid phase	RV	>>>	2	4,1	Negative			
(99) Another measurement principle	RV	>>>	1	2	Negative			
<b>Sample 2</b>			49			49	49	100
(1) Column agglutination - automat	RV	>>>	10	20	Positive			
(2) Column agglutination - manual	RV	>>>	23	47	Positive			
(3) Tube test	RV	>>>	13	27	Positive			
(4) Solid phase	RV	>>>	2	4,1	Positive			
(99) Another measurement principle	RV	>>>	1	2	Positive			
<b>(1025) Antigen e</b>			48			48	47	98
<b>Sample 1</b>			48			48	47	98
(1) Column agglutination - automat	RV	>>>	10	21	Positive			
(2) Column agglutination - manual	RV	>>>	23	48	Positive			
(3) Tube test	RV	>>>	12	25	Positive			
(4) Solid phase			1	2,1	Negative			
	RV	>>>	1	2,1	Positive			
(99) Another measurement principle	RV	>>>	1	2,1	Positive			
<b>Sample 2</b>			48			48	48	100
(1) Column agglutination - automat	RV	>>>	10	21	Positive			
(2) Column agglutination - manual	RV	>>>	23	48	Positive			
(3) Tube test	RV	>>>	12	25	Positive			
(4) Solid phase	RV	>>>	2	4,2	Positive			
(99) Another measurement principle	RV	>>>	1	2,1	Positive			
<b>(1023) Antigen C<sup>w</sup></b>			39			39	39	100
<b>Sample 1</b>			39			39	39	100
(1) Column agglutination - automat	RV	>>>	5	13	Negative			
(2) Column agglutination - manual	RV	>>>	18	46	Negative			
(3) Tube test	RV	>>>	14	36	Negative			
(4) Solid phase	RV	>>>	1	2,6	Negative			
(99) Another measurement principle	RV	>>>	1	2,6	Negative			
<b>Sample 2</b>			39			39	39	100
(1) Column agglutination - automat	RV	>>>	5	13	Negative			
(2) Column agglutination - manual	RV	>>>	18	46	Negative			
(3) Tube test	RV	>>>	14	36	Negative			
(4) Solid phase	RV	>>>	1	2,6	Negative			
(99) Another measurement principle	RV	>>>	1	2,6	Negative			
<b>(1026) Antigen K</b>			49			49	49	100
<b>Sample 1</b>			49			49	49	100
(1) Column agglutination - automat	RV	>>>	10	20	Negative			
(2) Column agglutination - manual	RV	>>>	24	49	Negative			
(3) Tube test	RV	>>>	13	27	Negative			
(4) Solid phase	RV	>>>	1	2	Negative			
(99) Another measurement principle	RV	>>>	1	2	Negative			

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Setup: groups - measurement principle

Test Sample Group	Frequency of the results					Success		
	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]	
<b>Sample 2</b>		49				49	49	100
(1) Column agglutination - automat	RV >>>	10	20	Negative				
(2) Column agglutination - manual	RV >>>	24	49	Negative				
(3) Tube test	RV >>>	13	27	Negative				
(4) Solid phase	RV >>>	1	2	Negative				
(99) Another measurement principle	RV >>>	1	2	Negative				
<b>(1027) Antigen k</b>		27				27	27	100
<b>Sample 1</b>		27				27	27	100
(0) Not specified	RV >>>	1	3,7	Positive				
(1) Column agglutination - automat	RV >>>	1	3,7	Positive				
(2) Column agglutination - manual	RV >>>	7	26	Positive				
(3) Tube test	RV >>>	18	67	Positive				
<b>Sample 2</b>		27				27	27	100
(0) Not specified	RV >>>	1	3,7	Positive				
(1) Column agglutination - automat	RV >>>	1	3,7	Positive				
(2) Column agglutination - manual	RV >>>	7	26	Positive				
(3) Tube test	RV >>>	18	67	Positive				
<b>(1039) Antigen Kp<sup>a</sup></b>		5				5	2	40
<b>Sample 1</b>		5				5	3	60
(0) Not specified	RV >>>	1	20	Negative				
(1) Column agglutination - automat	RV >>>	1	20	Negative				
(2) Column agglutination - manual	RV >>>	1	20	Negative				
(3) Tube test		2	40	Not specified				
<b>Sample 2</b>		5				5	4	80
(0) Not specified		1	20	Positive				
(1) Column agglutination - automat	RV >>>	1	20	Negative				
(2) Column agglutination - manual	RV >>>	1	20	Negative				
(3) Tube test	RV >>>	2	40	Negative				
<b>(1040) Antigen Kp<sup>b</sup></b>		4				4	3	75
<b>Sample 1</b>		4				4	3	75
(0) Not specified	RV >>>	1	25	Positive				
(2) Column agglutination - manual	RV >>>	2	50	Positive				
(3) Tube test		1	25	Not specified				
<b>Sample 2</b>		4				4	4	100
(0) Not specified	RV >>>	1	25	Positive				
(2) Column agglutination - manual	RV >>>	2	50	Positive				
(3) Tube test	RV >>>	1	25	Positive				
<b>(1033) Antigen Jk<sup>a</sup></b>		28				28	28	100
<b>Sample 1</b>		28				28	28	100
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	20	71	Positive				
(99) Another measurement principle	RV >>>	1	3,6	Positive				
<b>Sample 2</b>		28				28	28	100
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	20	71	Positive				
(99) Another measurement principle	RV >>>	1	3,6	Positive				
<b>(1034) Antigen Jk<sup>b</sup></b>		28				28	28	100
<b>Sample 1</b>		28				28	28	100
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	19	68	Positive				
(4) Solid phase	RV >>>	1	3,6	Positive				
(99) Another measurement principle	RV >>>	1	3,6	Positive				
<b>Sample 2</b>		28				28	28	100
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	19	68	Positive				
(4) Solid phase	RV >>>	1	3,6	Positive				
(99) Another measurement principle	RV >>>	1	3,6	Positive				
<b>(1028) Antigen M</b>		24				24	24	100
<b>Sample 1</b>		24				24	24	100
(2) Column agglutination - manual	RV >>>	6	25	Positive				
(3) Tube test	RV >>>	18	75	Positive				
<b>Sample 2</b>		24				24	24	100
(2) Column agglutination - manual	RV >>>	6	25	Positive				
(3) Tube test	RV >>>	18	75	Positive				
<b>(1029) Antigen N</b>		22				22	22	100
<b>Sample 1</b>		22				22	22	100
(2) Column agglutination - manual	RV >>>	6	27	Negative				
(3) Tube test	RV >>>	16	73	Negative				

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	AV	N <sub>tot</sub>	N <sub>rel</sub> [%]	Result	N <sub>eva</sub>	N <sub>suc</sub>	S <sub>rel</sub> [%]
<b>Sample 2</b>		22					
(2) Column agglutination - manual	RV >>>	6	27	Positive			
(3) Tube test	RV >>>	16	73	Positive			
<b>(1030) Antigen S</b>		25			25	24	96
<b>Sample 1</b>		25			25	25	100
(2) Column agglutination - manual	RV >>>	3	12	Positive			
(3) Tube test	RV >>>	21	84	Positive			
(99) Another measurement principle	RV >>>	1	4	Positive			
<b>Sample 2</b>		25			25	24	96
(2) Column agglutination - manual	RV >>>	2	8	Negative			
		1	4	Positive			
(3) Tube test	RV >>>	21	84	Negative			
(99) Another measurement principle	RV >>>	1	4	Negative			
<b>(1031) Antigen s</b>		19			19	19	100
<b>Sample 1</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	3	16	Positive			
(3) Tube test	RV >>>	15	79	Positive			
(99) Another measurement principle	RV >>>	1	5,3	Positive			
<b>Sample 2</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	3	16	Positive			
(3) Tube test	RV >>>	15	79	Positive			
(99) Another measurement principle	RV >>>	1	5,3	Positive			
<b>(1035) Antigen Le<sup>a</sup></b>		19			19	19	100
<b>Sample 1</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	5	26	Negative			
(3) Tube test	RV >>>	14	74	Negative			
<b>Sample 2</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	5	26	Negative			
(3) Tube test	RV >>>	14	74	Negative			
<b>(1036) Antigen Le<sup>b</sup></b>		19			19	19	100
<b>Sample 1</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	5	26	Positive			
(3) Tube test	RV >>>	14	74	Positive			
<b>Sample 2</b>		19			19	19	100
(2) Column agglutination - manual	RV >>>	5	26	Positive			
(3) Tube test	RV >>>	14	74	Positive			
<b>(1032) Antigen P1</b>		21			21	21	100
<b>Sample 1</b>		21			21	21	100
(2) Column agglutination - manual	RV >>>	3	14	Positive			
(3) Tube test	RV >>>	18	86	Positive			
<b>Sample 2</b>		21			21	21	100
(2) Column agglutination - manual	RV >>>	3	14	Positive			
(3) Tube test	RV >>>	18	86	Positive			