

EQA round: PAT2/24 - Direct Antiglobulin Test

Deadline: 15.11.2024

Setup: groups - M (measurement principle)

AV = assigned value

N_{tot} = total number of the resultsN_{eva} = number of the results assessed

RV = reference value

N_{rel} = relative number of the resultsN_{suc} = number of successful results

>>> ... expected result

S_{rel} = relative success

> ... acceptable result

± ... result not assessed

Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(1001) Direct Antiglobulin Test		91			91	91	100
Sample 1		91			91	91	100
(1) Column agglutination - automat	>	1	1,1	Positive (1+)			
	>	20	22	Positive (2+)			
	RV >>>	5	5,5	Positive (3+)			
(2) Column agglutination - manual	>	5	5,5	Positive (1+)			
	>	38	42	Positive (2+)			
	RV >>>	19	21	Positive (3+)			
	>	2	2,2	Positive (4+)			
(3) Tube test	>	1	1,1	Positive (1+)			
Sample 2		91			91	91	100
(1) Column agglutination - automat	>	14	15	Positive (2+)			
	RV >>>	12	13	Positive (3+)			
(2) Column agglutination - manual	>	3	3,3	Positive (1+)			
	>	24	26	Positive (2+)			
	RV >>>	34	37	Positive (3+)			
	>	3	3,3	Positive (4+)			
(3) Tube test	>	1	1,1	Positive (2+)			
(1002) Sensitization specificity anti-IgG		43			43	43	100
Sample 1		43			43	43	100
(1) Column agglutination - automat	>	1	2,3	Positive (1+)			
	>	4	9,3	Positive (2+)			
	RV >>>	2	4,7	Positive (3+)			
(2) Column agglutination - manual	>	2	4,7	Positive (1+)			
	>	23	53	Positive (2+)			
	RV >>>	11	26	Positive (3+)			
Sample 2		43			43	43	100
(1) Column agglutination - automat	>	4	9,3	Positive (2+)			
	RV >>>	3	7	Positive (3+)			
(2) Column agglutination - manual	>	11	26	Positive (2+)			
	RV >>>	24	56	Positive (3+)			
	>	1	2,3	Positive (4+)			
(1003) Sensitization specificity anti-IgA		31			31	31	100
Sample 1		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
Sample 2		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
(1004) Sensitization specificity anti-IgM		31			31	31	100
Sample 1		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
Sample 2		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
(1005) Sensitization specificity anti-C3c		31			31	31	100
Sample 1		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
Sample 2		31			31	31	100
(1) Column agglutination - automat	RV >>>	2	6,5	Negative			
(2) Column agglutination - manual	RV >>>	29	94	Negative			
(1006) Sensitization specificity anti-C3d		39			39	39	100
Sample 1		39			39	39	100
(1) Column agglutination - automat	RV >>>	5	13	Negative			
(2) Column agglutination - manual	RV >>>	33	85	Negative			
(3) Tube test	RV >>>	1	2,6	Negative			
Sample 2		39			39	39	100
(1) Column agglutination - automat	RV >>>	5	13	Negative			
(2) Column agglutination - manual	RV >>>	33	85	Negative			
(3) Tube test	RV >>>	1	2,6	Negative			

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(1008) Col. agglut: Quantif. IgG-DAT		23			23	22	96	
Sample 1		23			23	22	96	
(1) Column agglutination - automat	RV >>>	1	4,3	1:10				
(2) Column agglutination - manual		1	4,3	Not specified				
	RV >>>	13	57	1:10				
	>	8	35	1:30				
Sample 2		23			23	23	100	
(1) Column agglutination - automat	RV >>>	1	4,3	1:30				
(2) Column agglutination - manual	>	1	4,3	1:10				
	RV >>>	20	87	1:30				
	>	1	4,3	1:100				
(1009) Col. agglut: Subclass IgG1 1:1		24			24	24	100	
Sample 1		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
Sample 2		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
(1010) Col. agglut: Subclass IgG1 1:100		24			24	24	100	
Sample 1		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
Sample 2		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
(1011) Col. agglut: Subclass IgG3 1:1		24			24	24	100	
Sample 1		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
Sample 2		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
(1012) Col. agglut: Subclass IgG3 1:100		24			24	24	100	
Sample 1		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
Sample 2		24			24	24	100	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	22	92	Negative				
(1019) AB0 blood group		60			60	60	100	
Sample 1		60			60	60	100	
(1) Column agglutination - automat	RV >>>	19	32	Blood group: A				
(2) Column agglutination - manual	RV >>>	23	38	Blood group: A				
(3) Tube test	RV >>>	16	27	Blood group: A				
(4) Solid phase	RV >>>	1	1,7	Blood group: A				
(99) Another measurement principle	RV >>>	1	1,7	Blood group: A				
Sample 2		60			60	60	100	
(1) Column agglutination - automat	RV >>>	19	32	Blood group: 0				
(2) Column agglutination - manual	RV >>>	23	38	Blood group: 0				
(3) Tube test	RV >>>	16	27	Blood group: 0				
(4) Solid phase	RV >>>	1	1,7	Blood group: 0				
(99) Another measurement principle	RV >>>	1	1,7	Blood group: 0				
(1020) RhD antigen		60			60	57	95	
Sample 1		60			60	57	95	
(1) Column agglutination - automat	RV >>>	18	30	Negative (RhD-)				
		1	1,7	w/v (RhD weak/variant)				
(2) Column agglutination - manual	RV >>>	22	37	Negative (RhD-)				
		1	1,7	w/v (RhD weak/variant)				
(3) Tube test	RV >>>	15	25	Negative (RhD-)				
		1	1,7	w/v (RhD weak/variant)				
(4) Solid phase	RV >>>	1	1,7	Negative (RhD-)				
(99) Another measurement principle	RV >>>	1	1,7	Negative (RhD-)				
Sample 2		60			60	60	100	
(1) Column agglutination - automat	RV >>>	19	32	Positive (RhD+)				
(2) Column agglutination - manual	RV >>>	23	38	Positive (RhD+)				
(3) Tube test	RV >>>	16	27	Positive (RhD+)				
(4) Solid phase	RV >>>	1	1,7	Positive (RhD+)				
(99) Another measurement principle	RV >>>	1	1,7	Positive (RhD+)				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(1021) Antigen C		47				47	47	100
Sample 1		47				47	47	100
(1) Column agglutination - automat	RV >>>	11	23	Negative				
(2) Column agglutination - manual	RV >>>	22	47	Negative				
(3) Tube test	RV >>>	11	23	Negative				
(4) Solid phase	RV >>>	2	4,3	Negative				
(99) Another measurement principle	RV >>>	1	2,1	Negative				
Sample 2		47				47	47	100
(1) Column agglutination - automat	RV >>>	11	23	Positive				
(2) Column agglutination - manual	RV >>>	22	47	Positive				
(3) Tube test	RV >>>	11	23	Positive				
(4) Solid phase	RV >>>	2	4,3	Positive				
(99) Another measurement principle	RV >>>	1	2,1	Positive				
(1022) Antigen c		47				47	47	100
Sample 1		47				47	47	100
(1) Column agglutination - automat	RV >>>	11	23	Positive				
(2) Column agglutination - manual	RV >>>	22	47	Positive				
(3) Tube test	RV >>>	11	23	Positive				
(4) Solid phase	RV >>>	2	4,3	Positive				
(99) Another measurement principle	RV >>>	1	2,1	Positive				
Sample 2		47				47	47	100
(1) Column agglutination - automat	RV >>>	11	23	Negative				
(2) Column agglutination - manual	RV >>>	22	47	Negative				
(3) Tube test	RV >>>	11	23	Negative				
(4) Solid phase	RV >>>	2	4,3	Negative				
(99) Another measurement principle	RV >>>	1	2,1	Negative				
(1024) Antigen E		48				48	46	96
Sample 1		48				48	47	98
(1) Column agglutination - automat	RV >>>	11	23	Negative				
(2) Column agglutination - manual	RV >>>	21	44	Negative				
(3) Tube test	RV >>>	1	2,1	Positive				
(4) Solid phase	RV >>>	12	25	Negative				
(99) Another measurement principle	RV >>>	2	4,2	Negative				
Sample 2		48				48	47	98
(1) Column agglutination - automat	RV >>>	1	2,1	Not specified				
(2) Column agglutination - manual	RV >>>	10	21	Negative				
(3) Tube test	RV >>>	22	46	Negative				
(4) Solid phase	RV >>>	12	25	Negative				
(99) Another measurement principle	RV >>>	2	4,2	Negative				
(1025) Antigen e		47				47	46	98
Sample 1		47				47	47	100
(1) Column agglutination - automat	RV >>>	11	23	Positive				
(2) Column agglutination - manual	RV >>>	22	47	Positive				
(3) Tube test	RV >>>	11	23	Positive				
(4) Solid phase	RV >>>	2	4,3	Positive				
(99) Another measurement principle	RV >>>	1	2,1	Positive				
Sample 2		47				47	46	98
(1) Column agglutination - automat	RV >>>	1	2,1	Negative				
(2) Column agglutination - manual	RV >>>	10	21	Positive				
(3) Tube test	RV >>>	22	47	Positive				
(4) Solid phase	RV >>>	11	23	Positive				
(99) Another measurement principle	RV >>>	2	4,3	Positive				
(1023) Antigen C^w		40				40	39	98
Sample 1		40				40	40	100
(1) Column agglutination - automat	RV >>>	6	15	Negative				
(2) Column agglutination - manual	RV >>>	19	48	Negative				
(3) Tube test	RV >>>	13	33	Negative				
(4) Solid phase	RV >>>	2	5	Negative				
Sample 2		40				40	39	98
(1) Column agglutination - automat	RV >>>	6	15	Negative				
(2) Column agglutination - manual	RV >>>	18	45	Negative				
(3) Tube test	RV >>>	1	2,5	Positive				
(4) Solid phase	RV >>>	13	33	Negative				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(1026) Antigen K		49				49	47	96
Sample 1		49				49	48	98
(1) Column agglutination - automat	RV >>>	11	22	Negative				
(2) Column agglutination - manual	RV >>>	22	45	Negative				
		1	2	Positive				
(3) Tube test	RV >>>	12	24	Negative				
(4) Solid phase	RV >>>	2	4,1	Negative				
(99) Another measurement principle	RV >>>	1	2	Negative				
Sample 2		49				49	48	98
(1) Column agglutination - automat	RV >>>	11	22	Negative				
(2) Column agglutination - manual	RV >>>	22	45	Negative				
		1	2	Positive				
(3) Tube test	RV >>>	12	24	Negative				
(4) Solid phase	RV >>>	2	4,1	Negative				
(99) Another measurement principle	RV >>>	1	2	Negative				
(1027) Antigen k		27				27	27	100
Sample 1		27				27	27	100
(1) Column agglutination - automat	RV >>>	2	7,4	Positive				
(2) Column agglutination - manual	RV >>>	6	22	Positive				
(3) Tube test	RV >>>	19	70	Positive				
Sample 2		27				27	27	100
(1) Column agglutination - automat	RV >>>	2	7,4	Positive				
(2) Column agglutination - manual	RV >>>	6	22	Positive				
(3) Tube test	RV >>>	19	70	Positive				
(1039) Antigen Kp^a		4				4	3	75
Sample 1		4				4	3	75
(1) Column agglutination - automat		1	25	Positive				
(2) Column agglutination - manual	RV >>>	3	75	Negative				
Sample 2		4				4	4	100
(1) Column agglutination - automat	RV >>>	1	25	Positive				
(2) Column agglutination - manual	RV >>>	3	75	Positive				
(1040) Antigen Kp^b		2				2	2	100
Sample 1		2				2	2	100
(2) Column agglutination - manual	RV >>>	2	100	Positive				
Sample 2		2				2	2	100
(2) Column agglutination - manual	RV >>>	2	100	Positive				
(1033) Antigen Jk^a		29				29	29	100
Sample 1		29				29	29	100
(1) Column agglutination - automat	RV >>>	2	6,9	Positive				
(2) Column agglutination - manual	RV >>>	6	21	Positive				
(3) Tube test	RV >>>	21	72	Positive				
Sample 2		29				29	29	100
(1) Column agglutination - automat	RV >>>	2	6,9	Positive				
(2) Column agglutination - manual	RV >>>	6	21	Positive				
(3) Tube test	RV >>>	21	72	Positive				
(1034) Antigen Jk^b		29				29	29	100
Sample 1		29				29	29	100
(1) Column agglutination - automat	RV >>>	2	6,9	Negative				
(2) Column agglutination - manual	RV >>>	6	21	Negative				
(3) Tube test	RV >>>	20	69	Negative				
(4) Solid phase	RV >>>	1	3,4	Negative				
Sample 2		29				29	29	100
(1) Column agglutination - automat	RV >>>	2	6,9	Positive				
(2) Column agglutination - manual	RV >>>	6	21	Positive				
(3) Tube test	RV >>>	20	69	Positive				
(4) Solid phase	RV >>>	1	3,4	Positive				
(1028) Antigen M		27				27	27	100
Sample 1		27				27	27	100
(1) Column agglutination - automat	RV >>>	2	7,4	Positive				
(2) Column agglutination - manual	RV >>>	7	26	Positive				
(3) Tube test	RV >>>	18	67	Positive				
Sample 2		27				27	27	100
(1) Column agglutination - automat	RV >>>	2	7,4	Positive				
(2) Column agglutination - manual	RV >>>	7	26	Positive				
(3) Tube test	RV >>>	18	67	Positive				
(1029) Antigen N		25				25	24	96
Sample 1		25				25	24	96
(1) Column agglutination - automat	RV >>>	2	8	Negative				
(2) Column agglutination - manual	RV >>>	7	28	Negative				

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(3) Tube test	RV >>>	15	60	Negative			
		1	4	Positive			
Sample 2		25			25	24	96
(1) Column agglutination - automat	RV >>>	2	8	Negative			
(2) Column agglutination - manual	RV >>>	7	28	Negative			
(3) Tube test	RV >>>	15	60	Negative			
		1	4	Positive			
(1030) Antigen S		25			25	24	96
Sample 1		25			25	24	96
(1) Column agglutination - automat		1	4	Positive			
(2) Column agglutination - manual	RV >>>	2	8	Negative			
(3) Tube test	RV >>>	22	88	Negative			
Sample 2		25			25	24	96
(1) Column agglutination - automat		1	4	Positive			
(2) Column agglutination - manual	RV >>>	2	8	Negative			
(3) Tube test	RV >>>	22	88	Negative			
(1031) Antigen s		19			19	19	100
Sample 1		19			19	19	100
(1) Column agglutination - automat	RV >>>	1	5,3	Positive			
(2) Column agglutination - manual	RV >>>	2	11	Positive			
(3) Tube test	RV >>>	16	84	Positive			
Sample 2		19			19	19	100
(1) Column agglutination - automat	RV >>>	1	5,3	Positive			
(2) Column agglutination - manual	RV >>>	2	11	Positive			
(3) Tube test	RV >>>	16	84	Positive			
(1035) Antigen Le^a		20			20	19	95
Sample 1		20			20	20	100
(1) Column agglutination - automat	RV >>>	1	5	Negative			
(2) Column agglutination - manual	RV >>>	5	25	Negative			
(3) Tube test	RV >>>	14	70	Negative			
Sample 2		20			20	19	95
(1) Column agglutination - automat	RV >>>	1	5	Negative			
(2) Column agglutination - manual	RV >>>	4	20	Negative			
		1	5	Positive			
(3) Tube test	RV >>>	14	70	Negative			
(1036) Antigen Le^b		20			20	18	90
Sample 1		20			20	18	90
(1) Column agglutination - automat	RV >>>	1	5	Positive			
(2) Column agglutination - manual		1	5	Negative			
	RV >>>	4	20	Positive			
(3) Tube test		1	5	Negative			
	RV >>>	13	65	Positive			
Sample 2		20			20	20	100
(1) Column agglutination - automat	RV >>>	1	5	Negative			
(2) Column agglutination - manual	RV >>>	5	25	Negative			
(3) Tube test	RV >>>	14	70	Negative			
(1032) Antigen P1		21			21	21	100
Sample 1		21			21	21	100
(1) Column agglutination - automat	RV >>>	2	9,5	Positive			
(2) Column agglutination - manual	RV >>>	3	14	Positive			
(3) Tube test	RV >>>	16	76	Positive			
Sample 2		21			21	21	100
(1) Column agglutination - automat	RV >>>	2	9,5	Positive			
(2) Column agglutination - manual	RV >>>	3	14	Positive			
(3) Tube test	RV >>>	16	76	Positive			