

EQA round: PAT1/24 - Direct Antiglobulin Test

Deadline: 31.5.2024

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) DAT (direct Coombs test)		92				92	92	100
Sample 1		92				92	92	100
(1) Column agglutination - automat	RV >>>	16	17	Positive (2+)				
	>	9	9,8	Positive (3+)				
(2) Column agglutination - manual	>	1	1,1	Positive (1+)				
	RV >>>	23	25	Positive (2+)				
	>	42	46	Positive (3+)				
(3) Tube test	>	1	1,1	Positive (1+)				
Sample 2		92				92	92	100
(1) Column agglutination - automat	RV >>>	14	15	Positive (3+)				
	>	11	12	Positive (4+)				
(2) Column agglutination - manual	RV >>>	17	18	Positive (3+)				
	>	49	53	Positive (4+)				
(3) Tube test	>	1	1,1	Positive (4+)				
(1002) Sensitization specificity anti-IgG		41				41	41	100
Sample 1		41				41	41	100
(1) Column agglutination - automat	RV >>>	3	7,3	Positive (2+)				
	>	2	4,9	Positive (3+)				
(2) Column agglutination - manual	RV >>>	15	37	Positive (2+)				
	>	21	51	Positive (3+)				
Sample 2		41				41	41	100
(1) Column agglutination - automat	RV >>>	3	7,3	Positive (3+)				
	>	2	4,9	Positive (4+)				
(2) Column agglutination - manual	RV >>>	15	37	Positive (3+)				
	>	21	51	Positive (4+)				
(1003) Sensitization specificity anti-IgA		32				32	32	100
Sample 1		32				32	32	100
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	30	94	Negative				
Sample 2		32				32	32	100
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	30	94	Negative				
(1004) Sensitization specificity anti-IgM		32				32	32	100
Sample 1		32				32	32	100
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	30	94	Negative				
Sample 2		32				32	32	100
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	30	94	Negative				
(1005) Sensitization specificity anti-C3c		32				32	30	94
Sample 1		32				32	30	94
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	28	88	Negative				
		2	6,3	Positive (1+)				
Sample 2		32				32	32	100
(1) Column agglutination - automat	RV >>>	2	6,3	Negative				
(2) Column agglutination - manual	RV >>>	23	72	Negative				
	RV >>>	5	16	Positive (1+)				
	RV >>>	2	6,3	Positive (2+)				
(1006) Sensitization specificity anti-C3d		39				39	39	100
Sample 1		39				39	39	100
(1) Column agglutination - automat	RV >>>	3	7,7	Negative				
(2) Column agglutination - manual	RV >>>	35	90	Negative				
(3) Tube test	RV >>>	1	2,6	Negative				
Sample 2		39				39	39	100
(1) Column agglutination - automat	>	2	5,1	Positive (2+)				
	RV >>>	1	2,6	Positive (3+)				
(2) Column agglutination - manual	>	1	2,6	Positive (1+)				
	>	11	28	Positive (2+)				
	RV >>>	23	59	Positive (3+)				
(3) Tube test	RV >>>	1	2,6	Positive (3+)				
(1008) Col. agglut: Quantif. IgG-DAT		23				23	23	100
Sample 1		23				23	23	100
(1) Column agglutination - automat	RV >>>	1	4,3	1:30				

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Test Sample Group	Frequency of the results					Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(2) Column agglutination - manual		>	2	8,7	1:10			
	RV	>>>	20	87	1:30			
Sample 2			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	1:100			
(2) Column agglutination - manual	RV	>>>	17	74	1:100			
		>	5	22	1:300			
(1009) Col. agglut: Subclass IgG1 1:1			23			23	23	100
Sample 1			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
Sample 2			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
(1010) Col. agglut: Subclass IgG1 1:100			23			23	23	100
Sample 1			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
Sample 2			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
(1011) Col. agglut: Subclass IgG3 1:1			23			23	23	100
Sample 1			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
Sample 2			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Positive (3+)			
(2) Column agglutination - manual		>	1	4,3	Positive (2+)			
	RV	>>>	6	26	Positive (3+)			
		>	15	65	Positive (4+)			
(1012) Col. agglut: Subclass IgG3 1:100			23			23	23	100
Sample 1			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Negative			
(2) Column agglutination - manual	RV	>>>	22	96	Negative			
Sample 2			23			23	23	100
(1) Column agglutination - automat	RV	>>>	1	4,3	Positive (2+)			
(2) Column agglutination - manual		>	1	4,3	Positive (1+)			
	RV	>>>	17	74	Positive (2+)			
		>	4	17	Positive (3+)			
(1019) ABO blood group			61			61	61	100
Sample 1			61			61	61	100
(1) Column agglutination - automat	RV	>>>	19	31	Blood group: 0			
(2) Column agglutination - manual	RV	>>>	25	41	Blood group: 0			
(3) Tube test	RV	>>>	15	25	Blood group: 0			
(4) Solid phase	RV	>>>	1	1,6	Blood group: 0			
(99) Another measurement principle	RV	>>>	1	1,6	Blood group: 0			
Sample 2			61			61	61	100
(1) Column agglutination - automat	RV	>>>	19	31	Blood group: B			
(2) Column agglutination - manual	RV	>>>	25	41	Blood group: B			
(3) Tube test	RV	>>>	15	25	Blood group: B			
(4) Solid phase	RV	>>>	1	1,6	Blood group: B			
(99) Another measurement principle	RV	>>>	1	1,6	Blood group: B			
(1020) Rh D antigen			61			61	60	98
Sample 1			61			61	60	98
(1) Column agglutination - automat	RV	>>>	19	31	Positive (RhD+)			
(2) Column agglutination - manual	RV	>>>	25	41	Positive (RhD+)			
(3) Tube test	RV	>>>	14	23	Positive (RhD+)			
			1	1,6	w/v (RhD weak/variant)			
(4) Solid phase	RV	>>>	1	1,6	Positive (RhD+)			
(99) Another measurement principle	RV	>>>	1	1,6	Positive (RhD+)			
Sample 2			61			61	60	98
(1) Column agglutination - automat	RV	>>>	19	31	Positive (RhD+)			
(2) Column agglutination - manual	RV	>>>	25	41	Positive (RhD+)			
(3) Tube test	RV	>>>	14	23	Positive (RhD+)			
			1	1,6	w/v (RhD weak/variant)			
(4) Solid phase	RV	>>>	1	1,6	Positive (RhD+)			
(99) Another measurement principle	RV	>>>	1	1,6	Positive (RhD+)			
(1021) Antigen C			50			50	50	100
Sample 1			50			50	50	100
(1) Column agglutination - automat	RV	>>>	12	24	Positive			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
Sample 2		50			50	50	100	
(1) Column agglutination - automat	RV >>>	12	24	Positive				
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
(1022) Antigen c		50			50	50	100	
Sample 1		50			50	50	100	
(1) Column agglutination - automat	RV >>>	12	24	Positive				
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
Sample 2		50			50	50	100	
(1) Column agglutination - automat	RV >>>	12	24	Positive				
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
(1024) Antigen E		51			51	51	100	
Sample 1		51			51	51	100	
(1) Column agglutination - automat	RV >>>	12	24	Negative				
(2) Column agglutination - manual	RV >>>	24	47	Negative				
(3) Tube test	RV >>>	12	24	Negative				
(4) Solid phase	RV >>>	2	3,9	Negative				
(99) Another measurement principle	RV >>>	1	2	Negative				
Sample 2		51			51	51	100	
(1) Column agglutination - automat	RV >>>	12	24	Negative				
(2) Column agglutination - manual	RV >>>	24	47	Negative				
(3) Tube test	RV >>>	12	24	Negative				
(4) Solid phase	RV >>>	2	3,9	Negative				
(99) Another measurement principle	RV >>>	1	2	Negative				
(1025) Antigen e		50			50	50	100	
Sample 1		50			50	50	100	
(1) Column agglutination - automat	RV >>>	12	24	Positive				
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
Sample 2		50			50	50	100	
(1) Column agglutination - automat	RV >>>	12	24	Positive				
(2) Column agglutination - manual	RV >>>	24	48	Positive				
(3) Tube test	RV >>>	11	22	Positive				
(4) Solid phase	RV >>>	2	4	Positive				
(99) Another measurement principle	RV >>>	1	2	Positive				
(1023) Antigen C^w		43			43	43	100	
Sample 1		43			43	43	100	
(1) Column agglutination - automat	RV >>>	7	16	Negative				
(2) Column agglutination - manual	RV >>>	20	47	Negative				
(3) Tube test	RV >>>	13	30	Negative				
(4) Solid phase	RV >>>	2	4,7	Negative				
(99) Another measurement principle	RV >>>	1	2,3	Negative				
Sample 2		43			43	43	100	
(1) Column agglutination - automat	RV >>>	7	16	Negative				
(2) Column agglutination - manual	RV >>>	20	47	Negative				
(3) Tube test	RV >>>	13	30	Negative				
(4) Solid phase	RV >>>	2	4,7	Negative				
(99) Another measurement principle	RV >>>	1	2,3	Negative				
(1026) Antigen K		52			52	52	100	
Sample 1		52			52	52	100	
(1) Column agglutination - automat	RV >>>	12	23	Negative				
(2) Column agglutination - manual	RV >>>	25	48	Negative				
(3) Tube test	RV >>>	12	23	Negative				
(4) Solid phase	RV >>>	2	3,8	Negative				
(99) Another measurement principle	RV >>>	1	1,9	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} [%]	
Sample 2		52				52	52	100
(1) Column agglutination - automat	RV >>>	12	23	Negative				
(2) Column agglutination - manual	RV >>>	25	48	Negative				
(3) Tube test	RV >>>	12	23	Negative				
(4) Solid phase	RV >>>	2	3,8	Negative				
(99) Another measurement principle	RV >>>	1	1,9	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		7				7	2	29
Sample 1		7				7	4	57
(1) Column agglutination - automat	RV >>>	1	14	Negative				
		1	14	Positive				
(2) Column agglutination - manual	RV >>>	2	29	Negative				
		2	29	Positive				
(3) Tube test	RV >>>	1	14	Negative				
Sample 2		7				7	3	43
(1) Column agglutination - automat	RV >>>	1	14	Negative				
		1	14	Positive				
(2) Column agglutination - manual		1	14	Not specified				
	RV >>>	2	29	Negative				
		1	14	Positive				
(3) Tube test		1	14	Positive				
(1040) Antigen Kp^b		4				4	4	100
Sample 1		4				4	4	100
(2) Column agglutination - manual	RV >>>	3	75	Positive				
(3) Tube test	RV >>>	1	25	Positive				
Sample 2		4				4	4	100
(2) Column agglutination - manual	RV >>>	3	75	Positive				
(3) Tube test	RV >>>	1	25	Positive				
(1033) Antigen Jk^a		28				28	28	100
Sample 1		28				28	28	100
(1) Column agglutination - automat	RV >>>	2	7,1	Positive				
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	19	68	Positive				
Sample 2		28				28	28	100
(1) Column agglutination - automat	RV >>>	2	7,1	Positive				
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	19	68	Positive				
(1034) Antigen Jk^b		28				28	28	100
Sample 1		28				28	28	100
(1) Column agglutination - automat	RV >>>	2	7,1	Positive				
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	18	64	Positive				
(4) Solid phase	RV >>>	1	3,6	Positive				
Sample 2		28				28	28	100
(1) Column agglutination - automat	RV >>>	2	7,1	Positive				
(2) Column agglutination - manual	RV >>>	7	25	Positive				
(3) Tube test	RV >>>	18	64	Positive				
(4) Solid phase	RV >>>	1	3,6	Positive				
(1028) Antigen M		26				26	26	100
Sample 1		26				26	26	100
(1) Column agglutination - automat	RV >>>	2	7,7	Positive				
(2) Column agglutination - manual	RV >>>	7	27	Positive				
(3) Tube test	RV >>>	17	65	Positive				
Sample 2		26				26	26	100
(1) Column agglutination - automat	RV >>>	2	7,7	Positive				
(2) Column agglutination - manual	RV >>>	7	27	Positive				
(3) Tube test	RV >>>	17	65	Positive				
(1029) Antigen N		24				24	22	92
Sample 1		24				24	24	100
(1) Column agglutination - automat	RV >>>	2	8,3	Positive				
(2) Column agglutination - manual	RV >>>	7	29	Positive				

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(3) Tube test	RV >>>	15	63	Positive				
Sample 2		24			24	22	92	
(1) Column agglutination - automat	RV >>>	2	8,3	Negative				
(2) Column agglutination - manual	RV >>>	7	29	Negative				
(3) Tube test	RV >>>	13	54	Negative				
		2	8,3	Positive				
(1030) Antigen S		24			24	24	100	
Sample 1		24			24	24	100	
(1) Column agglutination - automat	RV >>>	1	4,2	Positive				
(2) Column agglutination - manual	RV >>>	3	13	Positive				
(3) Tube test	RV >>>	20	83	Positive				
Sample 2		24			24	24	100	
(1) Column agglutination - automat	RV >>>	1	4,2	Positive				
(2) Column agglutination - manual	RV >>>	3	13	Positive				
(3) Tube test	RV >>>	20	83	Positive				
(1031) Antigen s		18			18	18	100	
Sample 1		18			18	18	100	
(1) Column agglutination - automat	RV >>>	1	5,6	Positive				
(2) Column agglutination - manual	RV >>>	3	17	Positive				
(3) Tube test	RV >>>	14	78	Positive				
Sample 2		18			18	18	100	
(1) Column agglutination - automat	RV >>>	1	5,6	Positive				
(2) Column agglutination - manual	RV >>>	3	17	Positive				
(3) Tube test	RV >>>	14	78	Positive				
(1035) Antigen Le^a		20			20	17	85	
Sample 1		20			20	18	90	
(1) Column agglutination - automat		1	5	Not specified				
(2) Column agglutination - manual	RV >>>	5	25	Negative				
		1	5	Positive				
(3) Tube test	RV >>>	13	65	Negative				
Sample 2		20			20	18	90	
(1) Column agglutination - automat	RV >>>	1	5	Negative				
(2) Column agglutination - manual	RV >>>	5	25	Negative				
		1	5	Positive				
(3) Tube test	RV >>>	12	60	Negative				
		1	5	Positive				
(1036) Antigen Le^b		19			19	18	95	
Sample 1		19			19	18	95	
(1) Column agglutination - automat		1	5,3	Not specified				
(2) Column agglutination - manual	RV >>>	5	26	Positive				
(3) Tube test	RV >>>	13	68	Positive				
Sample 2		19			19	19	100	
(1) Column agglutination - automat	RV >>>	1	5,3	Positive				
(2) Column agglutination - manual	RV >>>	5	26	Positive				
(3) Tube test	RV >>>	13	68	Positive				
(1032) Antigen P1		20			20	18	90	
Sample 1		20			20	18	90	
(1) Column agglutination - automat	RV >>>	1	5	Negative				
		1	5	Positive				
(2) Column agglutination - manual	RV >>>	2	10	Negative				
		1	5	Positive				
(3) Tube test	RV >>>	15	75	Negative				
Sample 2		20			20	20	100	
(1) Column agglutination - automat	RV >>>	2	10	Positive				
(2) Column agglutination - manual	RV >>>	3	15	Positive				
(3) Tube test	RV >>>	15	75	Positive				