

EQA round: AIM1/23 - Autoimmunity

Deadline: 20.3.2023

Setup: all data

AV = assigned value

CVP = consensus of all participants

>>> ... expected result

> ... acceptable result

± ... result not assessed

N_{tot} = total number of the resultsN_{rel} = relative number of the resultsN_{eva} = number of the results assessedN_{suc} = number of successful resultsS_{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							
(560) ANA screening (antibodies against cell nucleus) - prove		82			82	62	76
Sample A1		82			82	74	90
All results	CVP >>>	74	90	Negative			
		1	1,2	Inconclusive result (borderline)			
		7	8,5	Positive			
Sample B1		82			82	70	85
All results	CVP >>>	70	85	Negative			
		4	4,9	Inconclusive result (borderline)			
		8	9,8	Positive			
(572) ANA screening (antibodies against cell nucleus) - semi-quantity		70			0		
Sample A1		70			0		
All results	±	47	67	titre 0 (not measurable)			
	±	12	17	titre 40			
	±	7	10	titre 80			
	±	1	1,4	titre 320			
	±	1	1,4	titre 640			
	±	2	2,9	titre 1280			
Sample B1		70			0		
All results	±	39	56	titre 0 (not measurable)			
	±	15	21	titre 40			
	±	11	16	titre 80			
	±	3	4,3	titre 160			
	±	2	2,9	titre 320			
(561) ANA - type of fluorescence - nucleus		75			75	60	80
Sample A1		75			75	72	96
All results	CVP >>>	72	96	No fluorescence			
		1	1,3	Smooth membranous nuclear pattern			
		2	2,7	Unknown type of fluorescence			
Sample B1		75			75	63	84
All results	CVP >>>	63	84	No fluorescence			
		12	16	Coarse or fine speckled			
(563) ANA screening (antibodies against cytoplasm) - prove		74			74	69	93
Sample A1		74			74	73	99
All results		1	1,4	Negative			
	CVP >>>	73	99	Positive			
Sample B1		74			74	70	95
All results	CVP >>>	70	95	Negative			
		4	5,4	Positive			
(573) ANA screening (antibodies against cytoplasm) - semi-quantity		68			0		
Sample A1		68			0		
All results	±	1	1,5	titre 0 (not measurable)			
	±	1	1,5	titre 40			
	±	1	1,5	titre 80			
	±	2	2,9	titre 160			
	±	7	10	titre 320			
	±	24	35	titre 640			
	±	24	35	titre 1280			
	±	8	12	titre 2560			
Sample B1		68			0		
All results	±	46	68	titre 0 (not measurable)			
	±	13	19	titre 40			
	±	7	10	titre 80			
	±	2	2,9	titre 160			
(564) ANA - type of fluorescence - cytoplasm		74			74	67	91
Sample A1		74			74	71	96
All results		1	1,4	No fluorescence			
	CVP >>>	71	96	Cytoskeletal patterns			

Setup: all data

Test Sample Group	AV	N _{tot}	N _{rel} [%]	Frequency of the results Result	Success		
					N _{eva}	N _{suc}	S _{rel} [%]
		1	1,4	Cytoskeletal patterns; Fine speckled cytoplasmic pattern			
		1	1,4	Unknown type of fluorescence			
Sample B1		74			74	70	95
All results	CVP >>>	70	95	No fluorescence			
		4	5,4	Unknown type of fluorescence			
Set 2							
(565) ANCA imunofluorescence - prove		64			64	64	100
Sample A2		64			64	64	100
All results	CVP >>>	64	100	Positive			
Sample B2		64			64	64	100
All results	CVP >>>	64	100	Negative			
(574) ANCA IF (ethanol) - semi-quantity		55			0		
Sample A2		55			0		
All results		± 1	1,8	Not specified			
		± 4	7,3	titre 20			
		± 3	5,5	titre 40			
		± 9	16	titre 80			
		± 13	24	titre 160			
		± 17	31	titre 320			
		± 8	15	titre 640			
Sample B2		55			0		
All results		± 44	80	titre 0 (not measurable)			
		± 10	18	titre 20			
		± 1	1,8	titre 40			
(578) ANCA IF (formalin) - semi-quantity		51			0		
Sample A2		51			0		
All results		± 1	2	Not specified			
		± 3	5,9	titre 20			
		± 2	3,9	titre 40			
		± 6	12	titre 80			
		± 15	29	titre 160			
		± 17	33	titre 320			
		± 7	14	titre 640			
Sample B2		51			0		
All results		± 41	80	titre 0 (not measurable)			
		± 9	18	titre 20			
		± 1	2	titre 40			
(566) ANCA - type of fluorescence		62			62	60	97
Sample A2		62			62	60	97
All results	CVP >>>	60	97	Cytoplasmic granular fluorescence			
		2	3,2	Cytoplasmic granular fluorescence; ANA			
Sample B2		62			62	62	100
All results	CVP >>>	62	100	No fluorescence			
(569) anti-myeloperoxidase		72			72	71	99
Sample A2		72			72	72	100
All results	CVP >>>	72	100	Negative			
Sample B2		72			72	71	99
All results	CVP >>>	71	99	Negative			
		1	1,4	Inconclusive result (borderline)			
(570) anti-proteinase III		72			72	72	100
Sample A2		72			72	72	100
All results	CVP >>>	72	100	Positive			
Sample B2		72			72	72	100
All results	CVP >>>	72	100	Negative			
Set 3							
(585) anti-centromere		76			76	76	100
Sample A3		76			76	76	100
All results	CVP >>>	76	100	Negative			
Sample B3		76			76	76	100
All results	CVP >>>	76	100	Negative			
(584) anti-ENA, antigen Jo-1		79			79	79	100
Sample A3		79			79	79	100
All results	CVP >>>	79	100	Negative			
Sample B3		79			79	79	100
All results	CVP >>>	79	100	Negative			

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			N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]	
(583) anti-ENA, antigen RNP								
Sample A3		79				79	79	100
All results	CVP >>>	79	100	Negative		79	79	100
Sample B3		79				79	79	100
All results	CVP >>>	79	100	Negative				
(582) anti-ENA, antigen Scl-70								
Sample A3		80				80	80	100
All results	CVP >>>	80	100	Negative		80	80	100
Sample B3		80				80	80	100
All results	CVP >>>	80	100	Negative				
(580) anti-ENA, antigen SS-A/Ro-60								
Sample A3		80				80	79	99
All results	CVP >>>	80	100	Positive		80	80	100
Sample B3		80				80	79	99
All results	CVP >>>	79	99	Negative				
		1	1,3	Positive				
(581) anti-ENA, antigen SS-B/La								
Sample A3		80				80	76	95
All results		3	3,8	Negative				
		1	1,3	Inconclusive result (borderline)				
	CVP >>>	76	95	Positive				
Sample B3		80				80	80	100
All results	CVP >>>	80	100	Negative				
Set 4								
(588) anti-dsDNA immunofluorescence - prove								
Sample A4		57				57	57	100
All results	CVP >>>	57	100	Positive		57	57	100
Sample B4		57				57	57	100
All results	CVP >>>	57	100	Negative				
(577) anti-dsDNA immunofluorescence - semi-quantity								
Sample A4		51				0		
All results		± 1	2	titre 10				
		± 1	2	titre 20				
		± 2	3,9	titre 40				
		± 8	16	titre 80				
		± 23	45	titre 160				
		± 14	27	titre 320				
		± 2	3,9	titre 640				
Sample B4		51				0		
All results		± 40	78	titre 0 (not measurable)				
		± 11	22	titre 10				
(589) anti-dsDNA other methods								
Sample A4		58				58	56	97
All results		2	3,4	Negative				
	CVP >>>	56	97	Positive				
Sample B4		58				58	58	100
All results	CVP >>>	58	100	Negative				
Set 5								
(591) anti-nukleosomes IgG								
Sample A5		55				55	53	96
All results		1	1,8	Negative				
		1	1,8	Inconclusive result (borderline)				
	CVP >>>	53	96	Positive				
Sample B5		55				55	54	98
All results	CVP >>>	54	98	Negative				
		1	1,8	Positive				