

EQA round: AIM2/24 - Autoimmunity

Deadline: 27.9.2024

Setup: all data

AV = assigned value	N _{tot} = total number of the results	N _{eva} = number of the results assessed
CVP = consensus of all participants	N _{rel} = relative number of the results	N _{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} [%]
Set 1							
(560) ANA screening (antibodies against cell nucleus) - prove		77			77	76	99
Sample A1		77			77	77	100
All results	CVP >>>	77	100	Positive			
Sample B1		77			77	76	99
All results	CVP >>>	76	99	Negative			
		1	1,3	Positive			
(572) ANA screening (antibodies against cell nucleus) - semi-quantity		67			0		
Sample A1		67			0		
All results	±	1	1,5	titre 40			
	±	2	3	titre 320			
	±	7	10	titre 640			
	±	35	52	titre 1280			
	±	22	33	titre 2560			
Sample B1		67			0		
All results	±	2	3	Not specified			
	±	51	76	titre 0 (not measurable)			
	±	5	7,5	titre 40			
	±	7	10	titre 80			
	±	1	1,5	titre 160			
	±	1	1,5	titre 2560			
(561) ANA - type of fluorescence - nucleus		70			70	64	91
Sample A1		70			70	67	96
All results		1	1,4	DFS 70 (AC-2); Fine or coarse speckled or nuclear matrix (AC-4/AC-5)			
	CVP >>>	67	96	Fine or coarse speckled or nuclear matrix (AC-4/AC-5)			
		2	2,9	Fine or coarse speckled or nuclear matrix (AC-4/AC-5); No fluorescence (AC-0)			
Sample B1		70			70	67	96
All results		1	1,4	Not specified			
	CVP >>>	67	96	No fluorescence (AC-0)			
		2	2,9	Fine or coarse speckled or nuclear matrix (AC-4/AC-5)			
(563) ANA screening (antibodies against cytoplasm) - prove		69			69	69	100
Sample A1		69			69	69	100
All results	CVP >>>	60	87	Negative			
	>	1	1,4	Inconclusive result (borderline)			
	>	8	12	Positive			
Sample B1		69			69	69	100
All results	CVP >>>	69	100	Negative			
(573) ANA screening (antibodies against cytoplasm) - semi-quantity		63			0		
Sample A1		63			0		
All results	±	43	68	titre 0 (not measurable)			
	±	4	6,3	titre 40			
	±	11	17	titre 80			
	±	2	3,2	titre 160			
	±	1	1,6	titre 320			
	±	1	1,6	titre 640			
	±	1	1,6	titre 2560			
Sample B1		63			0		
All results	±	49	78	titre 0 (not measurable)			
	±	5	7,9	titre 40			
	±	8	13	titre 80			
	±	1	1,6	titre 2560			
(564) ANA - type of fluorescence - cytoplasm		66			66	65	98
Sample A1		66			66	66	100
All results	CVP >>>	57	86	No fluorescence (AC-0)			
	>	9	14	Dense or fine speckled cytoplasm (AC-19/AC-20)			
Sample B1		66			66	65	98
All results	CVP >>>	65	98	No fluorescence (AC-0)			
		1	1,5	Dense or fine speckled cytoplasm (AC-19/AC-20)			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
Set 2							
(565) ANCA imunofluorescence - prove		63			63	63	100
Sample A2		63			63	63	100
All results	CVP >>>	63	100	Negative			
Sample B2		63			63	63	100
All results	CVP >>>	63	100	Positive			
(574) ANCA IF (ethanol) - semi-quantity		55			0		
Sample A2		55			0		
All results		± 47	85	titre 0 (not measurable)			
		± 7	13	titre 20			
		± 1	1,8	titre 40			
Sample B2		55			0		
All results		± 1	1,8	Not specified			
		± 4	7,3	titre 20			
		± 2	3,6	titre 40			
		± 1	1,8	titre 80			
		± 6	11	titre 160			
		± 12	22	titre 320			
		± 11	20	titre 640			
		± 14	25	titre 1280			
		± 4	7,3	titre 2560			
(578) ANCA IF (formalin) - semi-quantity		50			0		
Sample A2		50			0		
All results		± 43	86	titre 0 (not measurable)			
		± 6	12	titre 20			
		± 1	2	titre 40			
Sample B2		50			0		
All results		± 2	4	Not specified			
		± 4	8	titre 20			
		± 1	2	titre 40			
		± 8	16	titre 80			
		± 11	22	titre 160			
		± 9	18	titre 320			
		± 6	12	titre 640			
		± 6	12	titre 1280			
		± 3	6	titre 2560			
(566) ANCA - type of fluorescence		61			61	59	97
Sample A2		61			61	60	98
All results		1	1,6	Not specified			
	CVP >>>	60	98	Fluorescence ANCA not present			
Sample B2		61			61	60	98
All results	CVP >>>	60	98	Perinuclear fluorescence			
		1	1,6	Cytoplasmic granular fluorescence			
(569) anti-myeloperoxidase		73			73	72	99
Sample A2		73			73	73	100
All results	CVP >>>	73	100	Negative			
Sample B2		73			73	72	99
All results		1	1,4	Negative			
	CVP >>>	72	99	Positive			
(570) anti-proteinase III		73			73	72	99
Sample A2		73			73	73	100
All results	CVP >>>	73	100	Negative			
Sample B2		73			73	72	99
All results	CVP >>>	72	99	Negative			
		1	1,4	Positive			
Set 3							
(585) anti-centromere		75			75	75	100
Sample A3		75			75	75	100
All results	CVP >>>	75	100	Negative			
Sample B3		75			75	75	100
All results	CVP >>>	75	100	Negative			
(584) anti-ENA, antigen Jo-1		77			77	77	100
Sample A3		77			77	77	100
All results	CVP >>>	77	100	Negative			
Sample B3		77			77	77	100
All results	CVP >>>	77	100	Negative			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(583) anti-ENA, antigen RNP		77			77	77	100
Sample A3		77			77	77	100
All results	CVP >>>	77	100	Positive			
Sample B3		77			77	77	100
All results	CVP >>>	77	100	Negative			
(582) anti-ENA, antigen Scl-70		77			77	76	99
Sample A3		77			77	77	100
All results	CVP >>>	77	100	Negative			
Sample B3		77			77	76	99
All results	CVP >>>	76	99	Negative			
		1	1.3	Inconclusive result (borderline)			
(580) anti-ENA, antigen SS-A/Ro-60		77			77	77	100
Sample A3		77			77	77	100
All results	CVP >>>	77	100	Positive			
Sample B3		77			77	77	100
All results	CVP >>>	77	100	Negative			
(581) anti-ENA, antigen SS-B/La		77			77	77	100
Sample A3		77			77	77	100
All results	CVP >>>	77	100	Positive			
Sample B3		77			77	77	100
All results	CVP >>>	77	100	Negative			
Set 4							
(588) anti-dsDNA immunofluorescence - prove		55			55	55	100
Sample A4		55			55	55	100
All results	CVP >>>	55	100	Negative			
Sample B4		55			55	55	100
All results	CVP >>>	55	100	Positive			
(577) anti-dsDNA immunofluorescence - semi-quantity		52			0		
Sample A4		52			0		
All results		±	1	1,9	Not specified		
		±	42	81	titre 0 (not measurable)		
		±	9	17	titre 10		
Sample B4		52			0		
All results		±	2	3,8	titre 10		
		±	2	3,8	titre 80		
		±	7	13	titre 160		
		±	12	23	titre 320		
		±	21	40	titre 640		
		±	7	13	titre 1280		
		±	1	1,9	titre 2560		
(589) anti-dsDNA other methods		62			62	61	98
Sample A4		62			62	62	100
All results	CVP >>>	62	100	Negative			
Sample B4		62			62	61	98
All results		1	1,6	Negative			
	CVP >>>	61	98	Positive			
Set 5							
(591) anti-nukleosomes IgG		56			56	52	93
Sample A5		56			56	55	98
All results	CVP >>>	55	98	Negative			
		1	1,8	Positive			
Sample B5		56			56	52	93
All results		4	7,1	Negative			
	CVP >>>	52	93	Positive			