

EQA round: AIM1/24 - Autoimmunity

Deadline: 15.3.2024

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		79			79	75	95
Sample A1		79			79	76	96
All results	CVP >>>	76	96	Negative			
		1	1,3	Inconclusive result (borderline)			
		2	2,5	Positive			
Sample B1		79			79	78	99
All results		1	1,3	Negative			
	CVP >>>	78	99	Positive			
(572) ANA screening (antibodies against cell nucleus) - semi-quantity		68			0		
Sample A1		68			0		
All results		± 50	74	titre 0 (not measurable)			
		± 7	10	titre 40			
		± 11	16	titre 80			
Sample B1		68			0		
All results		± 2	2,9	titre 40			
		± 3	4,4	titre 80			
		± 1	1,5	titre 160			
		± 4	5,9	titre 640			
		± 16	24	titre 1280			
		± 42	62	titre 2560			
(561) ANA - type of fluorescence - nucleus		72			72	67	93
Sample A1		72			72	68	94
All results		1	1,4	Not specified			
	CVP >>>	68	94	No fluorescence			
		1	1,4	Coarse or fine speckled or nuclear matrix			
		1	1,4	Coarse or fine speckled or nuclear matrix; Homogenous or clumpy nucleolar pattern			
		1	1,4	Coarse or fine speckled or nuclear matrix; Midbody pattern (MSA-2)			
Sample B1		72			72	68	94
All results		1	1,4	Smooth membranous nuclear pattern; Coarse or fine speckled or nuclear matrix			
	CVP >>>	68	94	Coarse or fine speckled or nuclear matrix			
		1	1,4	Coarse or fine speckled or nuclear matrix; No fluorescence			
		1	1,4	Coarse or fine speckled or nuclear matrix; Centromere F pattern			
		1	1,4	Coarse or fine speckled or nuclear matrix; DFS 70 like			
(563) ANA screening (antibodies against cytoplasm) - prove		69			0		
Sample A1		69			69	69	100
All results	CVP >>>	69	100	Negative			
Sample B1		69			0		
All results		± 52	75	Negative			
		± 2	2,9	Inconclusive result (borderline)			
		± 15	22	Positive			
(573) ANA screening (antibodies against cytoplasm) - semi-quantity		67			0		
Sample A1		67			0		
All results		± 52	78	titre 0 (not measurable)			
		± 7	10	titre 40			
		± 8	12	titre 80			
Sample B1		67			0		
All results		± 35	52	titre 0 (not measurable)			
		± 7	10	titre 40			
		± 10	15	titre 80			
		± 8	12	titre 160			
		± 4	6	titre 320			
		± 2	3	titre 640			
		± 1	1,5	titre 1280			

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	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(564) ANA - type of fluorescence - cytoplasma					0		
Sample A1		71			71	71	100
All results	CVP >>>	71	100	No fluorescence			
Sample B1		71			0		
All results	±	1	1,4	Not specified			
	±	52	73	No fluorescence			
	±	15	21	Fine speckled cytoplasmic pattern			
	±	1	1,4	Peroxisomes			
	±	1	1,4	Lysozomal view			
	±	1	1,4	Unknown type of fluorescence			
Set 2							
(565) ANCA imunofluorescence - prove					59 57 97		
Sample A2		59			59	57	97
All results		2	3,4	Negative			
	CVP >>>	57	97	Positive			
Sample B2		59			59	59	100
All results	CVP >>>	59	100	Positive			
(574) ANCA IF (ethanol) - semi-quantity					0		
Sample A2		50			0		
All results	±	7	14	titre 20			
	±	7	14	titre 40			
	±	12	24	titre 80			
	±	7	14	titre 160			
	±	10	20	titre 320			
	±	5	10	titre 640			
	±	1	2	titre 1280			
	±	1	2	titre 2560			
Sample B2		50			0		
All results	±	1	2	Not specified			
	±	3	6	titre 20			
	±	2	4	titre 40			
	±	2	4	titre 80			
	±	8	16	titre 160			
	±	13	26	titre 320			
	±	13	26	titre 640			
	±	7	14	titre 1280			
	±	1	2	titre 2560			
(578) ANCA IF (formalin) - semi-quantity					0		
Sample A2		45			0		
All results	±	3	6,7	titre 20			
	±	3	6,7	titre 40			
	±	1	2,2	titre 80			
	±	13	29	titre 160			
	±	13	29	titre 320			
	±	7	16	titre 640			
	±	4	8,9	titre 1280			
	±	1	2,2	titre 2560			
Sample B2		45			0		
All results	±	3	6,7	titre 20			
	±	4	8,9	titre 40			
	±	7	16	titre 80			
	±	11	24	titre 160			
	±	7	16	titre 320			
	±	9	20	titre 640			
	±	4	8,9	titre 1280			
(566) ANCA - type of fluorescence					57 53 93		
Sample A2		57			57	55	96
All results		1	1,8	No fluorescence			
		1	1,8	Perinuclear fluorescence			
	CVP >>>	55	96	Cytoplasmic granular fluorescence			
Sample B2		57			57	55	96
All results	CVP >>>	55	96	Perinuclear fluorescence			
		2	3,5	Perinuclear fluorescence; ANA			
(569) anti-myeloperoxidase					68 68 100		
Sample A2		68			68	68	100
All results	CVP >>>	68	100	Negative			
Sample B2		68			68	68	100
All results	CVP >>>	68	100	Positive			

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Test Sample Group	Frequency of the results				Success		
	AV	N _{tot}	N _{rel} [%]	Result	N _{eva}	N _{suc}	S _{rel} [%]
(570) anti-proteinase III		68			68	66	97
Sample A2		68			68	66	97
All results		2	2,9	Negative			
	CVP >>>	66	97	Positive			
Sample B2		68			68	68	100
All results	CVP >>>	68	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		78			78	78	100
Sample A3		78			78	78	100
All results	CVP >>>	78	100	Negative			
Sample B3		78			78	78	100
All results	CVP >>>	78	100	Negative			
(583) anti-ENA, antigen RNP		78			78	78	100
Sample A3		78			78	78	100
All results	CVP >>>	78	100	Negative			
Sample B3		78			78	78	100
All results	CVP >>>	78	100	Negative			
(582) anti-ENA, antigen Scl-70		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			
(580) anti-ENA, antigen SS-A/Ro-60		79			79	79	100
Sample A3		79			79	79	100
All results	CVP >>>	79	100	Positive			
Sample B3		79			79	79	100
All results	CVP >>>	79	100	Negative			
(581) anti-ENA, antigen SS-B/La		79			79	76	96
Sample A3		79			79	76	96
All results		3	3,8	Negative			
	CVP >>>	76	96	Positive			
Sample B3		79			79	79	100
All results	CVP >>>	79	100	Negative			
Set 4							
(588) anti-dsDNA immunofluorescence - prove		52			52	52	100
Sample A4		52			52	52	100
All results	CVP >>>	52	100	Positive			
Sample B4		52			52	52	100
All results	CVP >>>	52	100	Negative			
(577) anti-dsDNA immunofluorescence - semi-quantity		48			0		
Sample A4		48			0		
All results		± 1	2,1	titre 10			
		± 1	2,1	titre 80			
		± 2	4,2	titre 160			
		± 5	10	titre 320			
		± 22	46	titre 640			
		± 13	27	titre 1280			
		± 4	8,3	titre 2560			
Sample B4		48			0		
All results		± 40	83	titre 0 (not measurable)			
		± 8	17	titre 10			
(589) anti-dsDNA other methods		60			60	60	100
Sample A4		60			60	60	100
All results	CVP >>>	60	100	Positive			
Sample B4		60			60	60	100
All results	CVP >>>	60	100	Negative			
Set 5							
(591) anti-nukleosomes IgG		53			53	50	94
Sample A5		53			53	52	98
All results	CVP >>>	52	98	Negative			
		1	1,9	Positive			

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Sample B5		53					
All results		2	3,8	Negative	53	50	94
		1	1,9	Inconclusive result (borderline)			
	CVP >>>	50	94	Positive			