

ArminLabs GmbH · Zirbelstr. 58 2nd floor · 86154 Augsburg · Germany

AONM
Commercial End 80
Swaffham Bulbeck

GB CB250NE Cambridge

Patient : **Orchard, Jonathan**

Date of Birth: 06/10/1971 male

Final report

Order-ID : **839180887**

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Date of Reception/Report : 10/27/2016

11/03/2016

Analysis	Result	Units	Reference Range	Chart
Haematology				
5 Blood count				
5 Leucocytes	5,36	Gpt/l	4,00 - 10,00	[.*.....]
5 Erythrocytes	5,77	Tpt/l	4,50 - 5,80	[.....*]
5 Hemoglobin	16,4	g/dl	14,0 - 18,0	[....*...]
5 Hematocrit	+	52,3 %	42,0 - 52,0	[.....*]
5 MCV	91	fl	82 - 98	[....*...]
5 MCH	28	pg	27 - 31	[..*.....]
5 MCHC	-	31 g/dl	32 - 36	[<*.....]
5 Thrombocytes	187	Gpt/l	140 - 400	[.*.....]
5 Differential Blood count				
5 Neutroph. Granulocytes	66,80	%	40,00 - 75,00	[.....*.]
5 Lymphocytes	23,60	%	17,00 - 47,00	[.*.....]
5 Monocytes	5,60	%	4,00 - 12,00	[.*.....]
5 Eosin. Granulocytes	1,30	%	< 7,00	[.*.....]
5 Basoph. Granulocytes	+	1,60 %	< 1,50	[.....*]
5 Others	1,20	%		

Borrelia EliSpot

1 Borrelia b. Full Antigen		9 SI
1 Borrelia b. OSP-Mix		7 SI
1 Borrelia burgdorferi LFA-1	!	3 SI
0-1	=	negative
2-3	=	weak positive
> 3	=	positive

The results of the Elispot-Tests are an indication for a current cellular activity against *Borrelia burgdorferi*.

Explanation of antigens:

Borrelia-burgdorferi Fully Antigen: *Borrelia burgdorferi* B31 reference strain (*Borrelia burgdorferi sensu stricto*)
Borrelia-burgdorferi Peptide-Mix: OspA from *Borrelia b. sensu stricto*, *Borrelia afzelii*, *Borrelia garinii* + OspC native + DbpA recombinant.

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Analysis	Result	Units	Reference Range	Chart
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Borrelia-burgdorferi LFA-1 (Lymphocyte Function Antigen 1)
Own body protein + Borrelia burgdorferi sensu stricto
(shared epitope). LFA1 can be associated with autoimmune
diseases: collagenosis, Rheumatoid Arthritis,
vasculitis. If positive or borderline positive look at:
ANA, CCP-antibodies, ANCA.

Attention: New reference range since 1st September 2016!

CD3-/CD57+ Cells

5 CD3-/CD56+ Flow Cytometry				
5 T cells CD3+ (%)	77,58	%	62,00 - 80,00	[.....*]
5 T cells CD3+ (absolute)	981	/ul	900 - 1900	[*.....]
5 NK cells CD56+ CD3- (%)	11,74	%	6,00 - 29,00	[.*.....]
5 NK cells CD56+ CD3- (absolute)	149	/ul	60 - 700	[.*.....]
5 CD57+ NK-cells (%)	18,91	%	2,00 - 77,00	[.*.....]
5 CD57+ NK-cells (absolute)	- 28	/ul	100 - 360	<*]

The result of the CD57-cell count indicates chronic
immune-suppression, which can be caused by Borrelia
burgdorferi or other bacteria like Chlamydia pneumoniae or
Mycoplasma pneumoniae.

Chlamydia pneumoniae EliSpot

1 Chlamydia pneumoniae-EliSpot !	6 SI
0-1 = negative	
2-3 = weak positive	
> 3 = positive	

The result of the EliSpot-Test is an indication for a
current cellular activity against Chlamydia pneumoniae.

Attention: New reference range since 1st September 2016!

Mycoplasma pneum. IgG-/IgA-AB

7 Mycopl.pneum. IgG-AB (ELISA)	negative
	0,690 Ratio
Ratio < 0,8	= negative
Ratio 0,8 bis 1,1	= very weak
Ratio >= 1,1	= positive

7 Mycopl.pneum. IgA-AB (ELISA)	negative
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Analysis	Result Units	Reference Range	Chart
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	0,530 Ratio	
Ratio < 0,8	= negative	
Ratio 0,8 bis 1,1	= very weak	
Ratio >= 1,1	= positive	

The specific Mycoplasma pneumoniae-IgG/IgA-antibodies are no indication for a humoral immune response against Mycoplasma pneumoniae.

EBV EliSpot (lytic+latent)

1 EBV EliSpot (lytic)	!	4 SI
0-1 = negative		
2-3 = weak positive		
> 3 = positive		

1 EBV EliSpot (latent)		25 SI
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The results of the EliSpot-Tests are an indication for a current cellular activity against EBV.
 Explanation of EBV antigens:
 EBV-lytic antigen: sign for production of infectious EBV virions
 EBV-latent antigen: sign for EBV latency with no production of infectious EBV virions

Attention: New reference range since 1st September 2016!

HSV 1/2 EliSpot

1 Herpes Simplex Virus 1 Elispot		2 SI
1 Herpes Simplex Virus 2 Elispot		1 SI
0-1 = negative		
2-3 = weak positive		
> 3 = positive		

The result of the Herpes Simplex Virus 1-EliSpot-Test is an indication for a weak current cellular activity against Herpes Simplex Virus 1.

Attention: New reference range since 1st September 2016!

CMV EliSpot

1 CMV EliSpot	!	9 SI
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Analysis	Result Units	Reference Range	Chart
0-1 = negative			
2-3 = weak positive			
> 3 = positive			

The result of the EliSpot-Test is an indication for a current cellular activity against Cytomegalo-Virus.

Attention: New reference range since 1st September 2016!

Coxsackie IgG-/IgA-antibodies

7 Coxsackie-Virus IgG A7 (IFT) +	1:1000	< 1:100	[..... * >
7 Coxsackie-Virus IgG B1 (IFT) +	1:10000	< 1:100	[..... * >
7 Coxsackie-Virus IgA A7 (IFT)	1:10	< 1:10	[.....*]
7 Coxsackie-Virus IgA B1 (IFT) +	1:100	< 1:10	[..... * >

The specific Coxsackie-Virus Type A7/B1-IgG-/IgA-antibodies are an indication for a current humoral immune response against Coxsackie-Virus Type A7 and Coxsackie-Virus Type B1. The test system is highly specific for Coxsackie Virus antibodies. Other Enterovirus antibodies (f.e. Echovirus antibodies) are not detectable.

validated by
Dr.Armin Schwarzbach