

# BULETIN DE ANALIZE MEDICALE

Nr: 28255

Recoltat/Sample Date: 02/09/2024 08:33

Raportat/Report Date: 05/09/2024 11:29

Nume: **Raut Vlad**  
Sex: **Masculin**  
C.N.P.: **1780407221212**  
Adresa: **Iasi**  
Telefon: **0726460710**  
CI/Passport:  
Trimis de: **Dr. Bogdan Cristian Ion CTA**



## Borrelia Centrum

Str. G-ral Alexandru Stefan Radovici,  
Nr. 17A, Sector 2, Bucuresti  
[contact@bcentrum.ro](mailto:contact@bcentrum.ro)  
Telefon: 0311050019 / 0731335039  
Program: Luni-Vineri:08:00-16:00

[www.bcentrum.ro](http://www.bcentrum.ro)



28255-02/09/2024

### 1. W.B. Borrelia garinii IgG

Rezultat La limita

| Proteine:                                    | Intensitate | Interval de referinta             |
|--|-------------|-----------------------------------|
| Proteina p41, flagelina comuna spirochetelor | 52          | Negativ 0-14                      |
| Proteina p30, specifica                      | 81          | La limita 15-25<br>Pozitiv 26-255 |

*In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.*

*Esantion analizat: ser*

*Metoda de determinare : Western blot*

### 2. W.B. Borrelia garinii IgM

Rezultat **Negativ**

*In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.*

*Esantion analizat: ser*

*Metoda de determinare : Western blot*

### 3. W.B. Borrelia burgdorferi IgG

Rezultat **Negativ**

| Proteine:                                    | Intensitate | Interval de referinta                             |
|--|-------------|---|
| Proteina p41, flagelina comuna spirochetelor | 114         | Negativ 0-17<br>La limita 18-28<br>Pozitiv 29-255 |

*In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.*

Validat de:  
(semnatura si parafa)

Dr. MAXIM LAURIAN MIHAI  
medic primar  
medicină de laborator  
Cod D95991

Probele biologice prelucrate au fost conforme pentru examinare. Rezultatele se refera numai la proba analizata.

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**Esantion analizat: ser**

**Metoda de determinare : Western blot**

### 4. W.B. Borrelia burgdorferi IgM

**Rezultat**                      **Negativ**

**Proteine:**

Proteina p41, flagelina comuna spirochetelor

**Intensitate**

16

**Interval de referinta**

Negativ 0-14

La limita 15-25

Pozitiv 26-255

**In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.**

**Esantion analizat: ser**

**Metoda de determinare : Western blot**

### 5. W.B. Borrelia afzelii IgG

**Rezultat**                      **La limita**

**Proteine:**

Proteina p75, nespecifica

Proteina p41, flagelina comuna spirochetelor

Proteina p31, OspA, inalt specifica

**Intensitate**

36

119

31

**Interval de referinta**

Negativ 0-15

La limita 16-25

Pozitiv 26-225

**In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.**

Validat de:

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28255-02/09/2024

**Esantion analizat: ser**

**Metoda de determinare : Western blot**

### 6. W.B. Borrelia afzelii IgM

**Rezultat**

Pozitiv

**Proteine:**

Proteina p62, nespecifica

Proteina p41, flagelina comuna spirochetelor

Proteina p25, OspC, inalt specifica

**Intensitate**

17

41

40

**Interval de referinta**

Negativ 0-15

La limita 16-25

Pozitiv 26-225

**In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 2-3 saptamani.**

**Esantion analizat: ser**

**Metoda de determinare : Western blot**

### 7. Microblot-Array Borrelia IgG (Borrelia IgG, Anaplasma IgG, Treponema IgG)

**Denumire**

Borrelia IgG

Anaplasma IgG

Treponema

**Rezultat**

Negativ

Negativ

Negativ

**Interval biologic de referinta:**

**<185 Negativ**

**185-210 Borderline**

**>210 Pozitiv**

**Esantion analizat: ser**

**Metoda de determinare: Microblot array**

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### 8. Microblot-Array Borrelia IgM (Borrelia IgM, Anaplasma IgM, EBV IgM)

| Denumire      | Rezultat |
|---------------|----------|
| Borrelia IgM  | Negativ  |
| Anaplasma IgM | Negativ  |
| EBV           | Negativ  |

**Interval biologic de referinta:**

**<185 Negativ**

**185-210 Borderline**

**>210 Pozitiv**

**Esantion analizat: ser**

**Metoda de determinare: Microblot array**

### 9. I.F. Borrelia Afzelii/ VlsE/ Borrelia Burgdorferi /OspC calitativ (IgG)

| Specia                   | Rezultat | Intensitate  | U.M.  | Interval de referinta |
|--------------------------|----------|--------------|-------|-----------------------|
| Borelia afzelii          | >1:100   | Slab Pozitiv | Titru | <1:100                |
| Borrelia burgdorferi USA | ≤1:100   | La limita    | Titru | <1:100                |
| OspC                     | <1:100   | Negativ      | Titru | <1:100                |
| VlsE                     | <1:100   | Negativ      | Titru | <1:100                |

**In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 14 zile.**

**Esantion analizat: ser**

**Metoda de determinare : Imunofluorescenta indirecta**

Validat de:  
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28255-02/09/2024

### 10. I.F. Borrelia Afzelii/ VlsE/ Borrelia Burgdorferi /OspC calitativ (IgM)

| Specia                   | Rezultat | Intensitate | U.M.  | Interval de referinta |
|--------------------------|----------|-------------|-------|-----------------------|
| Borelia afzelii          | ≤1:100   | La limita   | Titru | <1:100                |
| Borrelia burgdorferi USA | <1:100   | Negativ     | Titru | <1:100                |
| OspC                     | <1:100   | Negativ     | Titru | <1:100                |
| VlsE                     | <1:100   | Negativ     | Titru | <1:100                |

**In cazul unui rezultat "la limita" se recomanda repetarea analizei dupa 14 zile.**

**Metoda de determinare : Imunofluorescenta indirecta**

IMUNOFLUORESCENTA este un test de screening. In cazul unui rezultat pozitiv (slab pozitiv, moderat pozitiv) se recomanda teste de confirmare.

Pentru stabilirea unui diagnostic cat mai corect se recomanda corelarea rezultatelor serologice cu simptomele clinice ale pacientului.

Rezultatele incadrate intr-un dreptunghi se situeaza in afara intervalului de referinta pentru parametrul respectiv.

Validat de:  
(semnatura si parafa)

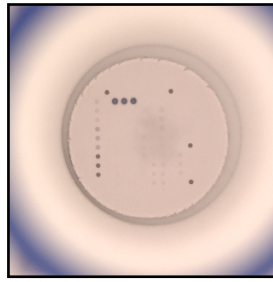
Dr. MAXIM LAURIAN MIHAI  
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Probele biologice prelucrate au fost conforme pentru examinare. Rezultatele se refera numai la proba analizata.

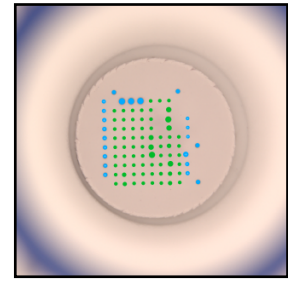
# Report for Microblot-Array Borrelia IgG

Patient: Raut Vlad 90978  
 Lot number: 0100102529 5  
 Well number: C1  
 Configuration: 028 (1.5)

Image before analysis:



Analyzed image:



Test name: Borrelia IgG  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| VisE Ba      | Negative | <30 (185 - 210)       |
| VisE Bg      | Negative | 47.98 (185 - 210)     |
| VisE Bs      | Negative | <30 (185 - 210)       |
| p83          | Negative | <30 (185 - 210)       |
| p58          | Negative | <30 (185 - 210)       |
| p41 Ba       | Negative | 105.36 (185 - 210)    |
| p41 Bs       | Negative | 120.64 (185 - 210)    |
| p39          | Negative | <30 (185 - 210)       |
| OspB         | Negative | <30 (185 - 210)       |
| OspA Ba      | Negative | <30 (185 - 210)       |
| OspA Bg      | Negative | <30 (185 - 210)       |
| OspA Bs      | Negative | <30 (185 - 210)       |
| OspC Ba      | Negative | 66.66 (185 - 210)     |
| OspC Bg      | Negative | <30 (185 - 210)       |
| OspC Bs      | Negative | <30 (185 - 210)       |
| OspC Bsp     | Negative | <30 (185 - 210)       |
| NapA         | Negative | <30 (185 - 210)       |
| OspE         | Negative | <30 (185 - 210)       |
| p17          | Negative | <30 (185 - 210)       |

Test name: Anaplasma IgG  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| OmpA         | Negative | <30 (185 - 210)       |
| p44          | Negative | <30 (185 - 210)       |
| Asp62        | Negative | 99.77 (185 - 210)     |

Test name: Treponema  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| TpN17        | Negative | <30 (185 - 210)       |

Borderline area information can be found in the table (in parentheses).

Test is valid.

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 Cod D96991

Borrelia Centrum

Analysis & evaluation performed by Supervisor on 9/3/2024 at 3:15 PM

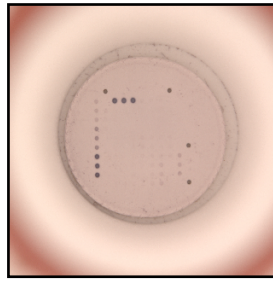
Software version: 2.1.70

4/23

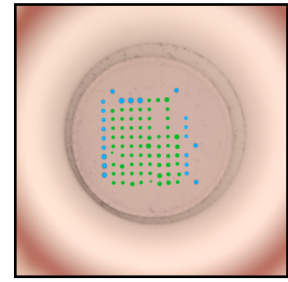
# Report for Microblot-Array Borrelia IgM

Patient: Raut Vlad 90979  
 Lot number: 0100104042 2  
 Well number: C3  
 Configuration: 029 (1.6)

Image before analysis:



Analyzed image:



Test name: Borrelia IgM  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| VisE Ba      | Negative | <30 (185 - 210)       |
| VisE Bg      | Negative | <30 (185 - 210)       |
| VisE Bs      | Negative | <30 (185 - 210)       |
| p83          | Negative | <30 (185 - 210)       |
| p58          | Negative | <30 (185 - 210)       |
| p41 Ba       | Negative | 56.63 (185 - 210)     |
| p41 Bs       | Negative | 143.31 (185 - 210)    |
| p39          | Negative | <30 (185 - 210)       |
| OspB         | Negative | 33.87 (185 - 210)     |
| OspA Ba      | Negative | <30 (185 - 210)       |
| OspA Bg      | Negative | <30 (185 - 210)       |
| OspA Bs      | Negative | <30 (185 - 210)       |
| OspC Ba      | Negative | 43.52 (185 - 210)     |
| OspC Bg      | Negative | 50.01 (185 - 210)     |
| OspC Bs      | Negative | 40.19 (185 - 210)     |
| OspC Bsp     | Negative | 51.96 (185 - 210)     |
| NapA         | Negative | 51.44 (185 - 210)     |
| OspE         | Negative | <30 (185 - 210)       |
| p17          | Negative | <30 (185 - 210)       |

Test name: Anaplasma IgM  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| OmpA         | Negative | <30 (185 - 210)       |
| p44          | Negative | <30 (185 - 210)       |
| Asp62        | Negative | <30 (185 - 210)       |

Test name: EBV  
 Result: Negative  
 Comment:  
 Comment of the lab:

| Antigen name | Result   | Antibody level [U/ml] |
|--------------|----------|-----------------------|
| EBV p18      | Negative | 42.42 (185 - 210)     |

Borderline area information can be found in the table (in parentheses).

Test is valid.

Dr. MAXIM LAURIAN MIHA  
 medic primar  
 medicină de laborator  
 Cod D96991

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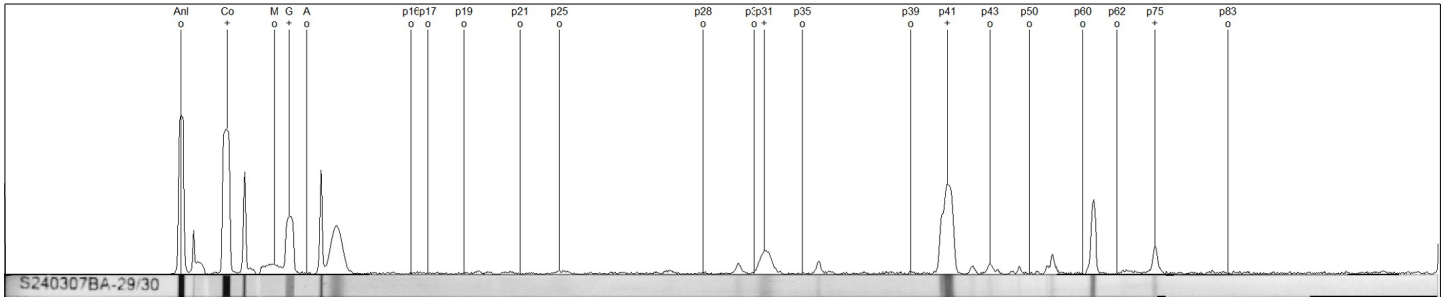
Analysis & evaluation performed by Supervisor on 9/3/2024 at 3:21 PM

Software version: 2.1.70

4/23

**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia afzelii IgG  
**Patient name:** Raut Vlad  
**Lab number:** 90976  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o | (+) | + |
|------------|-----------|-------|---|-----|---|
| p83        | 0         | o     |   |     |   |
| p75        | 36        | +     |   |     |   |
| p62        | 0         | o     |   |     |   |
| p60        | 0         | o     |   |     |   |
| p50        | 0         | o     |   |     |   |
| p43        | 15        | o     |   |     |   |
| p41, Flag. | 119       | +     |   |     |   |
| p39, BmpA  | 0         | o     |   |     |   |
| p35        | 0         | o     |   |     |   |
| p31, OspA  | 31        | +     |   |     |   |
| p30        | 0         | o     |   |     |   |
| p28        | 0         | o     |   |     |   |
| p25, OspC  | 5         | o     |   |     |   |
| p21        | 0         | o     |   |     |   |
| p19        | 0         | o     |   |     |   |
| Osp 17     | 0         | o     |   |     |   |
| p16        | 0         | o     |   |     |   |

| Test                 | Result     |
|----------------------|------------|
| Borrelia afzelii IgG | Borderline |

| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 15    | o     | Negative    |
| 16 - 25   | (+)   | Borderline  |
| 26 - 255  | +     | Positive    |

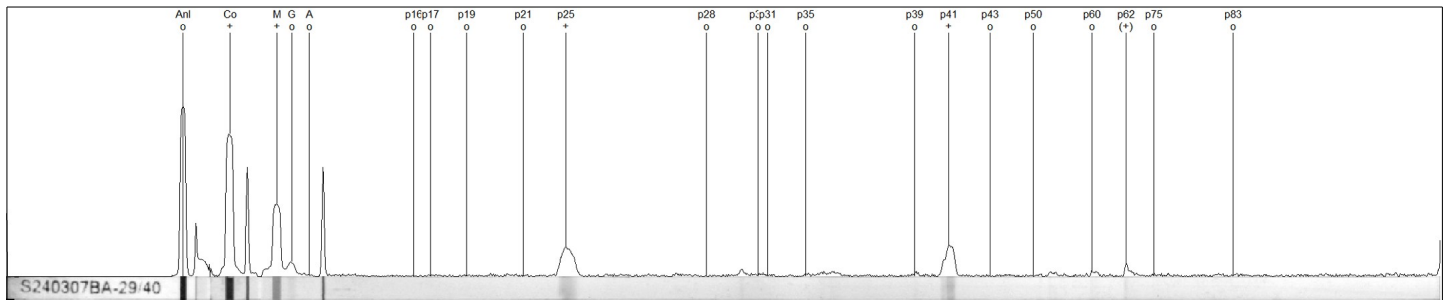
Dr. MAXIM LAURIAN MIHAI  
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 Cod D95991

Signature: \_\_\_\_\_



**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia afzelii IgM  
**Patient name:** Raut Vlad  
**Lab number:** 90977  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o | (+) | + |
|------------|-----------|-------|---|-----|---|
| p83        | 0         | o     |   |     |   |
| p75        | 0         | o     |   |     |   |
| p62        | 17        | (+)   |   |     |   |
| p60        | 6         | o     |   |     |   |
| p50        | 0         | o     |   |     |   |
| p43        | 0         | o     |   |     |   |
| p41, Flag. | 41        | +     |   |     |   |
| p39, BmpA  | 0         | o     |   |     |   |
| p35        | 0         | o     |   |     |   |
| p31, OspA  | 0         | o     |   |     |   |
| p30        | 0         | o     |   |     |   |
| p28        | 0         | o     |   |     |   |
| p25, OspC  | 40        | +     |   |     |   |
| p21        | 0         | o     |   |     |   |
| p19        | 0         | o     |   |     |   |
| Osp 17     | 0         | o     |   |     |   |
| p16        | 0         | o     |   |     |   |

| Test                 | Result   |
|----------------------|----------|
| Borrelia afzelii IgM | Positive |

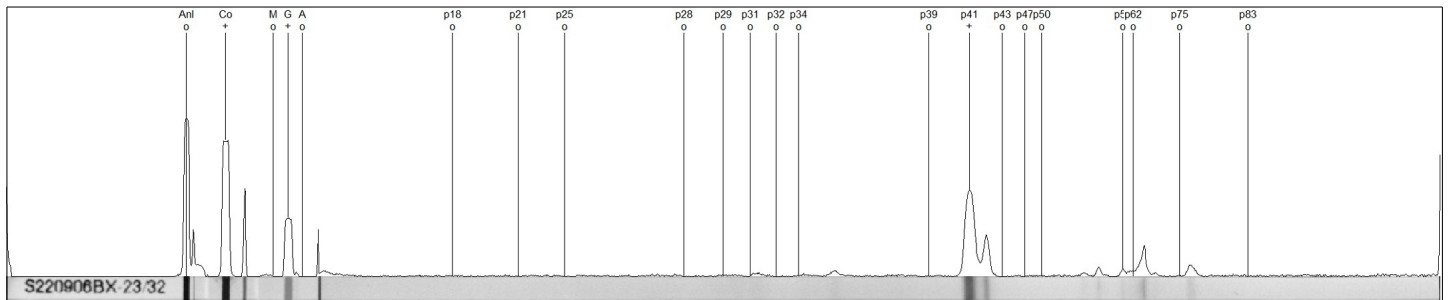
| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 15    | o     | Negative    |
| 16 - 25   | (+)   | Borderline  |
| 26 - 255  | +     | Positive    |

Dr. MAXIM LAURIAN MIHA  
 medic primar  
 medicină de laborator  
 Cod D96991

Signature: \_\_\_\_\_

**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia burgdorferi IgG  
**Patient name:** Raut Vlad  
**Lab number:** 90974  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o | (+) | + |
|------------|-----------|-------|---|-----|---|
| p83        | 0         | o     |   |     |   |
| p75        | 0         | o     |   |     |   |
| p62        | 0         | o     |   |     |   |
| p57/59     | 10        | o     |   |     |   |
| p50        | 0         | o     |   |     |   |
| p47        | 0         | o     |   |     |   |
| p43        | 0         | o     |   |     |   |
| p41, Flag. | 114       | +     |   |     |   |
| p39, BmpA  | 0         | o     |   |     |   |
| p34, OspB  | 0         | o     |   |     |   |
| p32        | 0         | o     |   |     |   |
| p31, OspA  | 0         | o     |   |     |   |
| p29        | 0         | o     |   |     |   |
| p28        | 0         | o     |   |     |   |
| p25, OspC  | 0         | o     |   |     |   |
| p21/22     | 0         | o     |   |     |   |
| p18        | 0         | o     |   |     |   |

| Test                     | Result   |
|--------------------------|----------|
| Borrelia burgdorferi IgG | Negative |

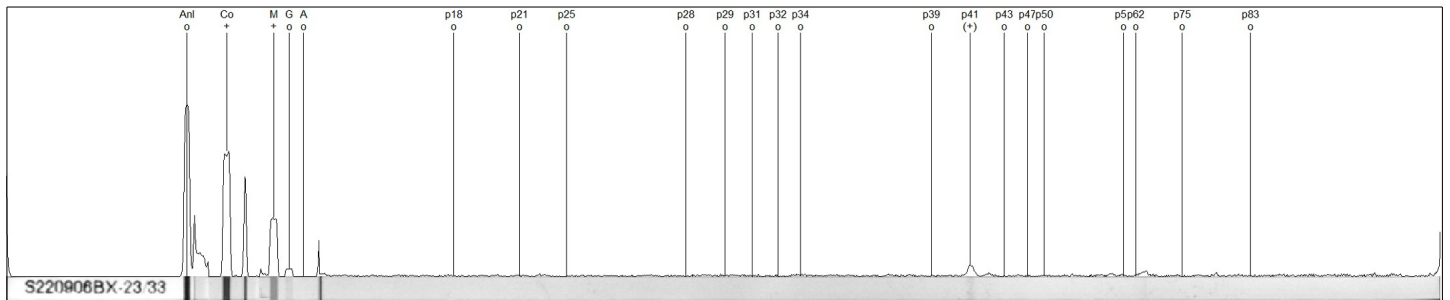
| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 17    | o     | Negative    |
| 18 - 28   | (+)   | Borderline  |
| 29 - 255  | +     | Positive    |

Dr. MAXIM LAURIAN MIHA  
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 medicină de laborator  
 Cod D96991

Signature: \_\_\_\_\_

**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia burgdorferi IgM  
**Patient name:** Raut Vlad  
**Lab number:** 90975  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o | (+) | + |
|------------|-----------|-------|---|-----|---|
| p83        | 0         | o     |   |     |   |
| p75        | 0         | o     |   |     |   |
| p62        | 0         | o     |   |     |   |
| p57/59     | 0         | o     |   |     |   |
| p50        | 0         | o     |   |     |   |
| p47        | 0         | o     |   |     |   |
| p43        | 0         | o     |   |     |   |
| p41, Flag. | 16        | (+)   |   |     |   |
| p39, BmpA  | 0         | o     |   |     |   |
| p34, OspB  | 0         | o     |   |     |   |
| p32        | 0         | o     |   |     |   |
| p31, OspA  | 0         | o     |   |     |   |
| p29        | 0         | o     |   |     |   |
| p28        | 0         | o     |   |     |   |
| p25, OspC  | 0         | o     |   |     |   |
| p21/22     | 0         | o     |   |     |   |
| p18        | 0         | o     |   |     |   |

| Test                     | Result   |
|--------------------------|----------|
| Borrelia burgdorferi IgM | Negative |

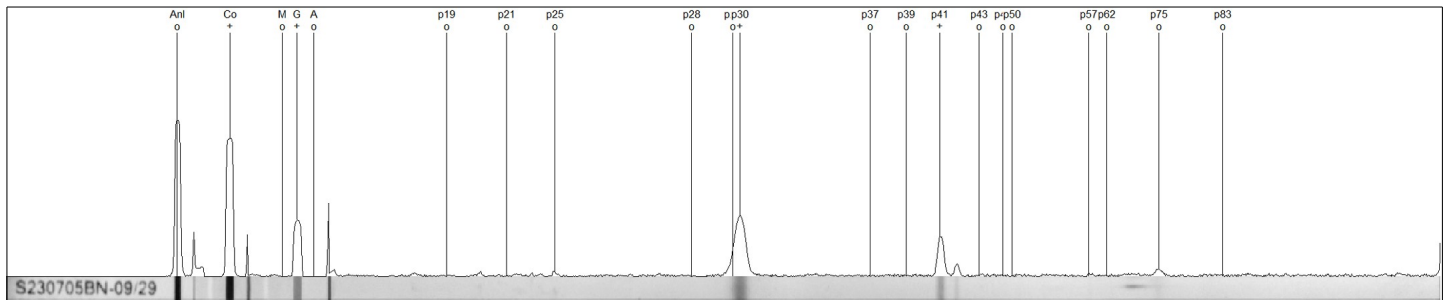
| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 14    | o     | Negative    |
| 15 - 25   | (+)   | Borderline  |
| 26 - 255  | +     | Positive    |

Dr. MAXIM LAURIAN MIHAJ  
medic primar  
medicină de laborator  
Cod D96991

Signature: \_\_\_\_\_

**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia garinii IgG  
**Patient name:** Raut Vlad  
**Lab number:** 90972  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o                | (+) | + |
|------------|-----------|-------|------------------|-----|---|
| p83        | 0         | o     |                  |     |   |
| p75        | 10        | o     |                  |     |   |
| p62        | 0         | o     |                  |     |   |
| p57/59     | 0         | o     |                  |     |   |
| p50        | 0         | o     |                  |     |   |
| p47        | 0         | o     |                  |     |   |
| p43        | 0         | o     |                  |     |   |
| p41, Flag. | 52        | +     | [Grey bar]       |     |   |
| p39, BmpA  | 0         | o     |                  |     |   |
| p37        | 0         | o     |                  |     |   |
| p30        | 81        | +     | [Dark grey bar]  |     |   |
| p29, OspA  | 0         | o     |                  |     |   |
| p28        | 0         | o     |                  |     |   |
| p25, OspC  | 7         | o     | [Small grey bar] |     |   |
| p21/22     | 0         | o     |                  |     |   |
| p19        | 0         | o     |                  |     |   |

| Test                 | Result     |
|----------------------|------------|
| Borrelia garinii IgG | Borderline |

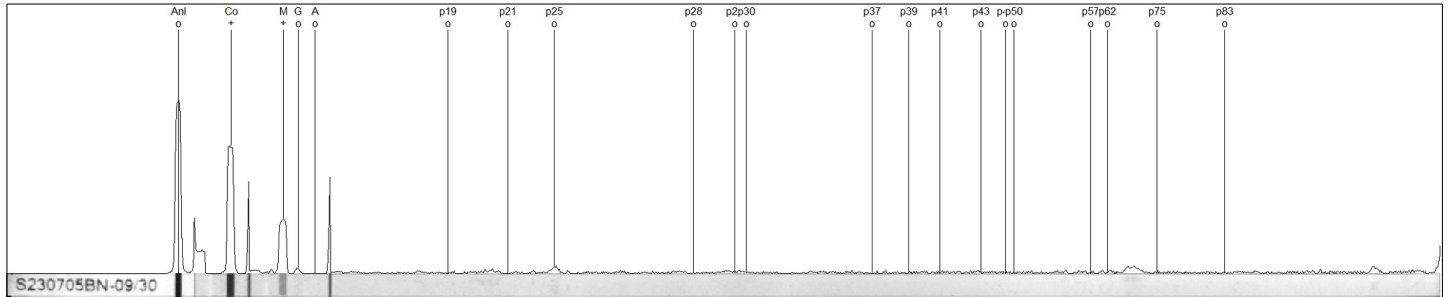
| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 14    | o     | Negative    |
| 15 - 25   | (+)   | Borderline  |
| 26 - 255  | +     | Positive    |

Dr. MAXIM LAURIAN MIHA  
medic primar  
medicină de laborator  
Cod D96991

Signature: \_\_\_\_\_

**Patient ID:** 28255  
**Created on:** 3/9/2024  
**Date of birth:** 7/4/1978  
**Receipt of sample:** 2/9/2024  
**Results from:** 3/9/2024

**Test:** Borrelia garinii IgM  
**Patient name:** Raut Vlad  
**Lab number:** 90973  
**Sent from:** Dr. Bogdan Cristian Ion CTA



| Antigen    | Intensity | Class | o | (+) | + |
|------------|-----------|-------|---|-----|---|
| p83        | 0         | o     |   |     |   |
| p75        | 0         | o     |   |     |   |
| p62        | 1         | o     |   |     |   |
| p57/59     | 0         | o     |   |     |   |
| p50        | 0         | o     |   |     |   |
| p47        | 0         | o     |   |     |   |
| p43        | 0         | o     |   |     |   |
| p41, Flag. | 0         | o     |   |     |   |
| p39, BmpA  | 0         | o     |   |     |   |
| p37        | 0         | o     |   |     |   |
| p30        | 0         | o     |   |     |   |
| p29, OspA  | 0         | o     |   |     |   |
| p28        | 0         | o     |   |     |   |
| p25, OspC  | 9         | o     |   |     |   |
| p21/22     | 0         | o     |   |     |   |
| p19        | 0         | o     |   |     |   |

| Test                 | Result   |
|----------------------|----------|
| Borrelia garinii IgM | Negative |

| Intensity | Class | Explanation |
|-----------|-------|-------------|
| 0 - 14    | o     | Negative    |
| 15 - 25   | (+)   | Borderline  |
| 26 - 255  | +     | Positive    |

Dr. MAXIM LAURIAN MIHA  
medic primar  
medicină de laborator  
Cod D95991

Signature: \_\_\_\_\_