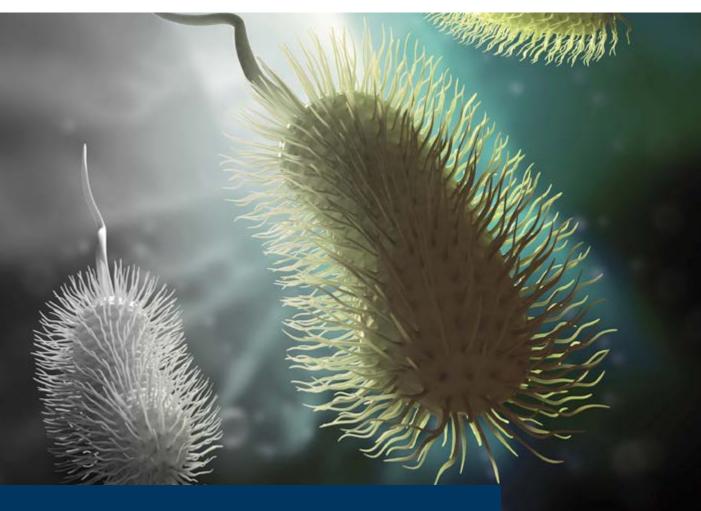
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### INFECTIOUS SEROLOGY - BACTERIOLOGY - ANAPLASMA PHAGOCYTOPHILA



## Anaplasma phagocytophila

## Enzyme immunoassay for the diagnosis of anaplasmosis

**IMMUNOBLOT** kits are optimized and validated for detection of IgG and IgM antibodies in human serum and plasma



# **B** TestLine<sup>®</sup>

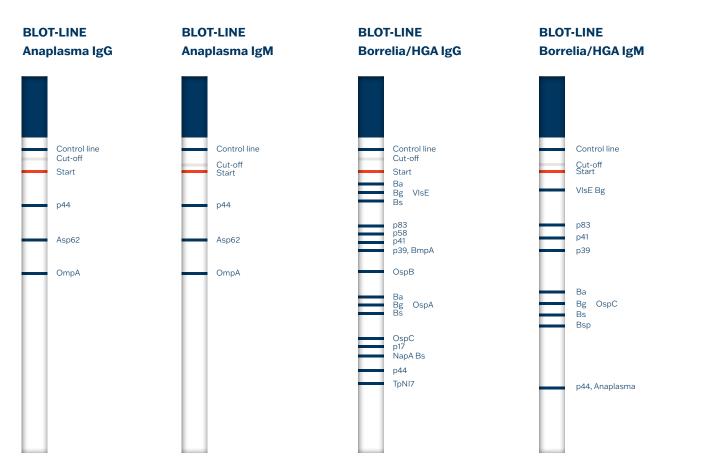
#### INFECTIOUS SEROLOGY - BACTERIOLOGY - ANAPLASMA PHAGOCYTOPHILA



### Introduction

**Human granulocytic anaplasmosis (HGA)** is a disease caused by Anaplasma phagocytophila bacteria. Clinically, the disease can manifest itself in various ways – from entirely asymptomatic to rather serious forms. Characteristic manifestations may include: fever, headache, muscle and joint aches, skin alterations (erythema migrans similar to Lyme borreliosis, mostly accompanied by maculopapular rash and hemorrhage), hepatosplenomegaly and lymphadenopathy. Antibodies are detectable approximately two weeks after the outbreak of the infection, which is why acute infections (30-60% positivity) are not always diagnosed correctly. During the convalescence time we usually find positivity in 70-90% of samples.





- p44 main antigen of antibody response to HGA
- Asp62 surface protein; works as a membrane transporter
- **OmpA** surface protein of outer membrane; lipoprotein associated with peptidoglycans; significant marker of virulence

\* In case of positive results within the Anaplasma screening it is recommended to perform further examination to confirm the HGA





| <u>Step</u> |     | Test steps  |
|-------------|-----|---|
| ٢           | 1.  | Pipette Universal solution 2.5 ml   |
| C           | 2.  | Strips soaking 10 min. at room<br>temperature<br>- Shaker   |
| ⊗           | 3.  | Aspirate  |
| U           | 4.  | Dilute samples<br>- serum/plasma 1:51 (30 µl + 1,5 ml)  |
| ٠           | 5.  | Pipette Controls and diluted samples<br>1.5 ml  |
| ₽           | 6.  | Incubate 30 min. at room temperature<br>- Shaker  |
| 8           | 7.  | Aspirate samples and wash strips with<br>1.5 ml of Universal solution 3-times for<br>5 min.<br>- Shaker       |
| ٢           | 8.  | Pipette Conjugate 1.5 ml  |
| ₽           | 9.  | Incubate 30 min. at room temperature<br>- Shaker  |
| 8           | 10. | Aspirate Conjugate and wash strips<br>with 1.5 ml of Universal solution 3-times<br>for 5 min.<br>- Shaker     |
| ٩           | 11. | Pipette Substrate solution (BCIP/NBT)<br>1.5 ml   |
| C           | 12. | Incubate 15 min. at room temperature<br>- Shaker  |
| 8           | 13. | Aspirate Substrate solution and wash<br>strips with 2 ml of distilled water<br>2-times for 5 min.<br>- Shaker |
| Π           | 14. | Read colour intensity at 450 nm   |

## **Clinical Application**

- Confirmatory method to the screening test
- Method for proof of acute infection
- Method for detailed determination of the presence of anti-Anaplasma specific antibodies

## **Advantages**

- Easy interpretation and reproducibility of results
- High sensitivity and specificity
- Compatibility with all commercial immunoblot processing Systems
- Customer support

## **Test characteristics**

| ELISA                         | <u>Diagnostic</u><br>Sensitivity | <u>Diagnostic</u><br>Specificity |
|-------------------------------|----------------------------------|----------------------------------|
| BLOT-LINE<br>Anaplasma IgG    | 92.0%                            | 94.0%                            |
| BLOT-LINE<br>Anaplasma IgM    | 91.4%                            | 99.0%                            |
| BLOT-LINE<br>Borrelia/HGA IgG | 92.9%                            | 91.7%                            |
| BLOT-LINE<br>Borrelia/HGA lgM | 93.3%                            | 93.9%                            |

#### **BLOT-LINE** kit







## **Ordering Information**

#### IMMUNOBLOT

| Cat. No. | Product                    | No. of Tests |
|----------|----------------------------|--------------|
| ApGL10   | BLOT-LINE Anaplasma IgG    | 10           |
| ApML10   | BLOT-LINE Anaplasma IgM    | 10           |
| BGL020   | BLOT-LINE Borrelia/HGA IgG | 20           |
| BML020   | BLOT-LINE Borrelia/HGA IgM | 20           |
| Swlm03   | Immunoblot Software        | 1 pc         |





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Company is certified to the quality management system standards ISO 9001 and ISO 13485 for in vitro diagnostics.

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