Candida albicans IgA/IgG/IgM

For Research Use Only
– Not for Use in Clinical Procedures

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IBL-America ELISA Candida albicans IgA/IgG/IgM

Enzyme-immunoassay for determination of human antibodies

IBL-America ELISA Candida albicans IgA  Order Nr.: IB05023
IBL-America ELISA Candida albicans IgG  Order Nr.: IB05024
IBL-America ELISA Candida albicans IgM  Order Nr.: IB05025

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1 INTENDED USE
The IBL-America Candida albicans IgA, IgG and IgM ELISA tests are qualitative immunoassays for the demonstration of human IgA, IgG and IgM antibodies directed against Candida albicans. The evaluation of individual immunoglobulin classes can be used for the determination of pathogen contact.

2 Background
Candida spp. are ubiquitous yeast-like fungi, which can even be demonstrated in around 75% of all healthy individuals in the form of skin and mucous membrane colonization. They live as harmless saprophytes in the throat, trachea, stomach, and large and small intestines. The microorganisms are normally not capable of breaking the defence mechanisms of the human skin and mucous membranes and successfully challenging the immune system, but numerous risk factors may, however, significantly increase the likelihood of Candida albicans or related fungi becoming established, resulting in mycosis.

Candida albicans is the primary cause of candidiasis. Yeasts of the genus Candida frequently cause infections of the mucous membranes, e.g. oral thrush, vaginal mycosis, or nappy-rash, but can also be responsible for systemic organ mycosis affecting the eyes, liver, kidneys or lungs and also be the cause of Candida septicaemia.

Apart from the yeast form, which primarily causes superficial infections, so called pseudo mycelia are a further morphologic manifestation of the pathogen. Germ tubes and the development of pseudo mycelia mainly occur in cases of systemic mycosis. Candida spp. produce and excrete a range of destructive enzymes, that enable the facultative pathogenic microorganisms to penetrate mucous membrane barriers and blood vessels.

In general, Candida spp. are transmitted from person to person by smear contamination. The primary portal of entry is the oral cavity. Changes in the fungistatic properties of the skin, which are a consequence of a slightly acidic pH value and the antagonistic bacterial flora, can facilitate the establishment of superficial candidiasis of the skin surface. Systemic mycosis results from colonization of mucous membranes, particularly in the gastrointestinal tract.
3 TEST PRINCIPLE SERION ELISA classic

The ELISA (Enzyme Linked Immunosorbent Assay) is an immunoassay, which is particularly suited to the determination of antibodies in the field of infectious serology. The reaction is based on the specific interaction of antibodies with their corresponding antigen. The test strips of the microtiter plate are coated with specific antigens of the pathogen of interest. If antibodies in the sample are present, they bind to the fixed antigen. A secondary antibody, which has been conjugated with the enzyme alkaline phosphatase, detects and binds to the immune complex. The colourless substrate p-nitrophenylphosphate is then converted into the coloured product p-nitrophenol. The signal intensity of this reaction product is proportional to the concentration of the analyte in the sample and is measured photometrically.

4 KIT COMPONENTS

<table>
<thead>
<tr>
<th>Test Components</th>
<th>Pieces / Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Break apart microtiter test strips each with eight antigen coated single wells,</td>
<td>12 pieces</td>
</tr>
<tr>
<td>(altogether 96) MTP, 1 frame. The coating material is inactivated.</td>
<td></td>
</tr>
<tr>
<td>Standard serum (ready-to-use) STD,</td>
<td>2 x 2 ml</td>
</tr>
<tr>
<td>Human serum in protein containing phosphate buffer; negative for anti-HIV Ab, HBs-Ag (Hepatitis B-Virus surface antigen) and anti-HCV Ab; preservative: &lt; 0.1 % sodium azide; colouring: Amaranth O</td>
<td></td>
</tr>
<tr>
<td>Negative control serum (ready-to-use) NEG,</td>
<td>2 ml</td>
</tr>
<tr>
<td>Human serum in protein containing phosphate buffer; negative for anti-HIV Ab, HBs-Ag (Hepatitis B-Virus surface antigen) and anti-HCV Ab; preservative: &lt; 0.1 % sodium azide; colouring: Lissamin Green V</td>
<td></td>
</tr>
<tr>
<td>Anti-human IgA, IgG or IgM conjugate (ready-to-use) APC,</td>
<td>13 ml</td>
</tr>
<tr>
<td>Anti-human IgA, IgG or IgM polyclonal antibody, conjugated to alkaline phosphatase, stabilised with protein stabilisation solution; preservative: &lt; 0.1 % methylisothiazolone, &lt; 0.1 % bromnitrooxlane</td>
<td></td>
</tr>
<tr>
<td>Washing solution concentrate (sufficient for 1000 ml) WASH,</td>
<td>33.3 ml</td>
</tr>
<tr>
<td>Sodium chloride solution with Tween 20 and 30 mM Tris/HCl, pH 7.4; preservative: &lt; 0.1 % sodium azide</td>
<td></td>
</tr>
<tr>
<td>Dilution buffer (ready-to-use) DILB,</td>
<td>2 x 50 ml</td>
</tr>
<tr>
<td>Protein containing phosphate buffer with Tween 20; preservative: &lt; 0.1 % sodium azide; colouring: 0.01 g/l Bromphenol blue</td>
<td></td>
</tr>
<tr>
<td>Stopping solution (ready-to-use) STOP,</td>
<td>15 ml</td>
</tr>
<tr>
<td>&lt; 0.1 N sodium hydroxide, 40 mM EDTA</td>
<td></td>
</tr>
<tr>
<td>Substrate (ready-to-use) pNPP,</td>
<td>13 ml</td>
</tr>
<tr>
<td>Para-nitrophenylphosphate in solvent free buffer; preservative: &lt; 0.1 % sodium azide</td>
<td></td>
</tr>
<tr>
<td>Quality control certificate with standard curve and evaluation table INFO,</td>
<td>2 pages</td>
</tr>
<tr>
<td>(quantification of antibodies in IU/ml or U/ml)</td>
<td></td>
</tr>
</tbody>
</table>
5 MATERIAL REQUIRED BUT NOT SUPPLIED
- Common laboratory equipment
- For the IgM detection: Rf-Absorbent, order no. IB05998 (20 ml)
- Photometer for microtiter plates with filter, wavelength 405 nm, recommended reference wavelength 620 nm - 690 nm (e.g. 650 nm)
- Microtiter plate washer
- Incubator 37 °C
- Moist chamber
- Distilled water

6 STORAGE AND STABILITY

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Storage</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microtiter strips (coated with antigen)</td>
<td>unopened after opening at 2 – 8 °C in closed aluminum bag with desiccant</td>
<td>see expiry date minimum shelf-life: four weeks</td>
</tr>
<tr>
<td>Control sera / Standard sera</td>
<td>unopened / after opening at 2 – 8 °C</td>
<td>see expiry date</td>
</tr>
<tr>
<td>Conjugate</td>
<td>unopened / after opening at 2 – 8 °C</td>
<td>see expiry date</td>
</tr>
<tr>
<td>Dilution buffer</td>
<td>unopened / after opening at 2 – 8 °C</td>
<td>see expiry date</td>
</tr>
<tr>
<td>Washing solution</td>
<td>unopened / after opening at 2 – 8 °C working dilution at 2 – 8 °C</td>
<td>see expiry date 2 weeks</td>
</tr>
<tr>
<td></td>
<td>working dilution at room temperature</td>
<td>1 week</td>
</tr>
<tr>
<td>Substrate</td>
<td>unopened / after opening at 2 – 8 °C</td>
<td>see expiry date</td>
</tr>
<tr>
<td>Stopping solution</td>
<td>unopened / after opening at 2 – 8 °C</td>
<td>see expiry date</td>
</tr>
</tbody>
</table>

7 TEST PROCEDURE

7.1 Evidence of Deterioration
The components of the kit must not be exchanged for reagents of other manufacturers. Standard and control sera are defined exclusively for the test kit to be used and must not be used in other lots. Dilution buffer, washing solution, substrate and stop solution can be used for all IBL-America immunoassays coded IB05xxx irrespective of the lot and the test.

Unopened, all components of this ELISA may, if stored accordingly, be used up to the expiry dates given on the labels. Reagents may not be used after date of expiry.
Dilution or alteration of the reagents may result in a loss of sensitivity.

Avoid exposure of reagents to strong light during storage and incubation. Reagents must be tightly closed after use to avoid evaporation and contamination.

To open the aluminum bag of the microtiter plate please cut off the top of the marked side only, in order to guarantee proper reclosing. Do not use the strips if the aluminum bag is damaged or if the bag with remaining strips and desiccant was not properly reclosed.

Use aseptic techniques when removing aliquots from the reagent tubes to avoid contamination. To avoid false positive results ensure not to contact or splash the top-walls of wells while pipetting conjugate. Take care not to mix the caps of the bottles and/or vials.

Reproducibility of test results is dependent on thorough mixing of the reagents. Agitate the flasks containing control sera before use and also all samples after dilution (e.g. by using a vortex mixer).

Be sure to pipette carefully and comply with the given incubation times and temperatures. Significant time differences between pipetting the first and last well of the microtiter plate when dispensing samples and control sera, conjugate or substrate can result in different pre-incubation times, which may influence the precision and reproducibility of the results.

Optimum results can only be achieved if the instructions are strictly followed.

The results of this ELISA are only valid if the lot-specific validation criteria on the quality control certificate are fulfilled.

Adequate washing avoids test unspecificities. Therefore, the washing procedure should be carried out carefully. All of the flat bottom wells should be filled with equal volumes of washing buffer. At the end of the procedure ensure that the wells are free of all washing buffer in order to avoid uncontrolled dilution effects. Avoid foaming!

Take care not to damage the inscription (pathogen / antibody class) on the microtiter test strips during washing and aspiration to avoid confusion.

7.2 Sample Preparation and Storage

Lipaemic, hemolytic or icteric samples (serum or plasma) should only be tested with caution. Obviously contaminated samples should not be tested. Serum or plasma (EDTA, citrate, heparin) collected according to standard laboratory methods are suitable samples. Samples must not be thermally inactivated.

7.2.1 Dilution of Samples

Before running the test, all samples (V₁) must be diluted in dilution buffer (V₂) as follows:
IBL-America ELISA Candida albicans IgA/IgG

<table>
<thead>
<tr>
<th>V₁ + V₂ = 1+1000</th>
<th>add</th>
<th>10 µl</th>
<th>sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>each to</td>
<td>1000 µl</td>
<td>dilution buffer (1 + 100)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 µl</td>
<td>of first dilution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>180 µl</td>
<td>dilution buffer (1 + 9)</td>
</tr>
</tbody>
</table>

IBL-America ELISA Candida albicans IgM:

Interference with rheumatoid factors
Rheumatoid factors are autoantibodies mainly of the IgM class, which preferably bind to IgG immune complexes. The presence of non-specific IgM antibodies (rheumatoid factors) can lead to false-positive results in the IgM assay. Furthermore, the possibility exists, that weak-binding pathogen-specific IgM antibodies may be displaced by stronger-binding IgG antibodies leading to a false-negative IgM result. Therefore it is necessary to pretreat samples with rheumatoid factor-absorbents prior to IgM detection (Rf-Absorbent). Rf-absorption is performed by incubation of the patient’s sample in Rf-dilution buffer for 15 minutes at room temperature or over night at 4 °C. The test procedure is described in a separate instruction manual.

Before running the test, rheumatoid factor-absorbent (V₁) must be diluted 1+4 in dilution buffer (V₂).

<table>
<thead>
<tr>
<th>V₁ + V₂ = V₃ (1 + 4)</th>
<th>add</th>
<th>200 µl</th>
<th>Rf-absorbent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>each to</td>
<td>800 µl</td>
<td>dilution buffer</td>
</tr>
</tbody>
</table>

Samples (V₄) must be diluted in this Rf-dilution buffer (V₃):

<table>
<thead>
<tr>
<th>V₄ + V₃ = 1+100</th>
<th>add</th>
<th>10 µl</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>each to</td>
<td>1000 µl</td>
<td>Rf-dilution buffer</td>
</tr>
</tbody>
</table>

After dilution and before pipetting into the microtiter plate the samples must be mixed thoroughly to prepare a homogenous solution.

7.2.2 Sample Storage
The samples should not be stored for more than 7 days at 2 – 8 °C. Extended storage is possible at ≤ -20 °C. Avoid repeated freezing and thawing of samples. Diluted samples can be stored at 2 – 8 °C for one week.
7.3 Preparation of Kit Reagents
Bring all reagents to room temperature before testing.

7.3.1 Microtiter Test Strips
The microtiter test strips labeled with abreviations for pathogen and immunoglobulin class are packed with a desiccant in an aluminum bag. To open the aluminum bag of the microtiter plate please cut off the top of the marked side only, in order to guarantee proper resealing. Take unrequired cavities out of the frame and put them back into the aluminum bag. Close bag carefully to ensure airtight conditions. Do not use the strips if the aluminum bag is damaged or if the bag with remaining strips and desiccant was not properly resealed.

7.3.2 Control Sera / Standard Sera (ready-to-use)
Control and standard sera are ready-to-use and must not be diluted any further. For each test run - independent of the number of microtiter test strips to be used - control and standard sera must be included. Standard and cut off sera should be set up in duplicate. Do not treat control sera with Rf-absorbent.

7.3.3 Anti-human IgA, IgG or IgM AP-Conjugate (ready-to-use)
The required conjugate concentration (+, ++, ++++) is indicated on the quality control certificate. Please refer also to the specification on the label.

7.3.4 Washing Solution (Concentrate)
Dilute washing buffer concentrate \((V_1)\) 1:30 with aqua dest. to a final volume of \(V_2\).
Example:

<table>
<thead>
<tr>
<th>Buffer concentrate ((V_1))</th>
<th>Final volume ((V_2))</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.3 ml</td>
<td>1000 ml</td>
</tr>
<tr>
<td>1.0 ml</td>
<td>30 ml</td>
</tr>
</tbody>
</table>

7.3.5 Dilution Buffer for Samples (ready-to-use)

7.3.6 Substrate (ready-to-use)
Substrate in unopened bottle may have a slightly yellow coloring, which does not reduce the quality of the product!

7.3.7 Stopping Solution (ready-to-use)
7.4 Overview - Test Procedure

**IBL-America ELISA**  
**Candida albicans IgA/IgG/IgM**

In case of IgM detection absorption of rheumatoid factor, see No. 7.2.1;  
Incubation 15 minutes at room temperature or over night at 4°C

<table>
<thead>
<tr>
<th>sample dilution¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>IgM: 1+100</td>
</tr>
<tr>
<td>IgG/IgA: 1+1000</td>
</tr>
</tbody>
</table>

Pipette diluted samples and ready-to-use control / standard sera into the microtest wells (100 µl)

- INCUBATION 60 min./ 37 °C moist chamber
- WASH (4 x 300 µl DIL WASH)²
  - Pipette conjugate solution [APC] (100 µl)
  - INCUBATION 30 min./ 37 °C moist chamber
  - WASH (4 x 300 µl DIL WASH)²
  - Pipette substrate solution [pNPP] (100 µl)
  - INCUBATION 30 min./ 37 °C moist chamber
  - Pipette stopping solution [STOP] (100 µl)
  - READ EXTINCTION at 405 nm

¹Special dilution buffers for the following IBL-America ELISA tests:  
Borrelia burgdorferi IgG, IgM, EBV EA IgG and Hantavirus Puumala IgG, IgM

²For manual use:  
tap plate at the end of the wash procedure on paper towel.
7.5 Manual Test Procedure

1. Place the required number of cavities in the frame and prepare a protocol sheet.
2. Add each 100 µl of diluted sample or ready-to-use controls into the appropriate wells of microtiter test strips. Spare one well for substrate blank, e.g.:

<table>
<thead>
<tr>
<th>Well</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>substrate blank</td>
</tr>
<tr>
<td>B1</td>
<td>negative control</td>
</tr>
<tr>
<td>C1</td>
<td>standard serum</td>
</tr>
<tr>
<td>D1</td>
<td>standard serum</td>
</tr>
<tr>
<td>E1</td>
<td>sample 1 ...</td>
</tr>
<tr>
<td>F1</td>
<td>sample 2 ...</td>
</tr>
</tbody>
</table>

3. **Sample incubation** for 60 minutes (+/- 5 min.) at 37 °C (+/- 1°C) in moist chamber.
4. After incubation wash all wells with washing solution (by automated washer or manually):
   - aspirate or shake out the incubation solution
   - fill each well with 300 µl washing solution
   - aspirate or shake out the washing buffer
   - repeat the washing procedure 3 times (altogether 4 times!)
   - dry by tapping the microtiter plate on a paper towel
5. **Addition of conjugate**
   Add 100 µl of the ready-to-use IgA/IgG/IgM conjugate to the appropriate wells (except substrate blank)
6. **Conjugate incubation** for 30 minutes (+/- 1 min.) at 37 °C (+/- 1 °C) in moist chamber.
7. After incubation wash all wells with washing solution (see above).
8. **Addition of substrate**
   Add 100 µl of ready-to-use substrate solution to each well (including well for substrate blank!)
9. **Substrate incubation** for 30 minutes (+/- 1 min.) at 37 °C (+/- 1 °C) in moist chamber.
10. **Stopping of the reaction**
    Add 100 µl stopping solution to each well, shake microtiter plate gently to mix.
11. **Read extinction**
    Read optical density (OD) within 60 minutes at 405 nm against substrate blank, reference wave length between 620 nm and 690 nm (e.g. 650 nm).
7.6 Automated Test Procedure

These ELISA tests also are suited for processing on automats and evaluated for use with Immunomat™ and Gemini as well as with DYNEX DSX® and DS2®. The automated processing is performed analogous to manual use. Please note, that under special working-conditions internal laboratory adaptations of the substrate incubation times may be necessary.

7.7 Positive Control / Accuracy Control

For the periodic verification of the test method, in order to fulfil the requirements of laboratory internal quality management systems, we recommend using IBL-America ELISA controls to determine precision and accuracy of ELISA test runs. The use of IBL-America ELISA controls is described in specific instruction manuals.
8 TEST EVALUATION

For qualitative interpretation of serum samples a lot specific correction factor as well as a lot specific grey zone is calculated by manufacturer for each kit lot. These values can be found on the lot specific quality certificate included in each test kit.

For test run control a standard serum is used in each individual test run. For this control serum a reference value with a validity range is determined by the quality control of the manufacturer. Within this range a correct cut-off interpretation is ensured.

8.1 Criteria of Validity

- The substrate blank must be < 0.25 OD.
- The negative control must produce a negative test result.
- The mean OD-value (after subtraction of the substrate blank!) of the standard serum must be within the validity range, which is given on the lot specific quality control certificate.
- The variation of OD-values of the standard serum may not be higher than 20 %.

If these criteria are not met, the test is not valid and must be repeated.

8.2 Cut-off Calculation

A lot-specific quality control certificate is included in the test kit so that the obtained OD values can be interpreted qualitatively. The substrate blank must be substraction from all OD values prior to evaluation.

To fix the cut-off ranges multiply the mean value of the measured standard OD with the numerical data of the quality control certificate. Then add and substraction the lot specific grey zone percentage mentioned on the quality certificate to obtain the upper and lower cut-off. The following numbers are an example only, the valid data you will find in the lot-specific QC certificate which comes with each kit.

Lot specific correction factor: 0.805
Lot specific grey zone: 15%

If the measured mean absorbance value of the standard serum is 0.84 OD, the range of the cut-off is:
Lower cut-off: (0.84 * 0.805) -15% = OD 0.575
Upper cut-off: (0.84 * 0.805) +15% = OD 0.778
8.3 Borderline Ranges

The borderline range indicates the range for borderline test results. Values obtained, when testing a sample, which fall below this range indicate a negative test result; values above the borderline range are interpreted positive. In cases where the results are within the borderline range a definitive interpretation of the result is not possible. In such cases, the test should be repeated in parallel with a follow-up sample taken one to two weeks later (serum pair).

9 PERFORMANCE CHARACTERISTICS

9.1 Sensitivity and Specificity

IBL-America Candida albicans IgA, IgG and IgM

The IBL-America Candida albicans IgA, IgG and IgM ELISA tests were verified in an internal study. The sensitivity and specificity in both cases exceeded 92%.

9.2 Reproducibility

Candida albicans IgA:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Mean Value (OD)</th>
<th>Intraassay CV (%)</th>
<th>Mean Value (OD)</th>
<th>Interassay CV (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum 1</td>
<td>0.555</td>
<td>2.4</td>
<td>0.627</td>
<td>9.2</td>
</tr>
<tr>
<td>Serum 2</td>
<td>1.483</td>
<td>2.2</td>
<td>1.595</td>
<td>6.3</td>
</tr>
<tr>
<td>Serum 3</td>
<td>1.613</td>
<td>2.6</td>
<td>1.747</td>
<td>6.0</td>
</tr>
</tbody>
</table>

ELISA Candida albicans IgG:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Mean Value (OD)</th>
<th>Intraassay CV (%)</th>
<th>Mean Value (OD)</th>
<th>Interassay CV (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum 1</td>
<td>0.272</td>
<td>3.8</td>
<td>0.245</td>
<td>8.9</td>
</tr>
<tr>
<td>Serum 2</td>
<td>0.994</td>
<td>3.5</td>
<td>0.910</td>
<td>9.8</td>
</tr>
<tr>
<td>Serum 3</td>
<td>1.166</td>
<td>2.7</td>
<td>1.087</td>
<td>9.4</td>
</tr>
</tbody>
</table>

ELISA Candida albicans IgM:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Mean Value (OD)</th>
<th>Intraassay CV (%)</th>
<th>Mean Value (OD)</th>
<th>Interassay CV (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum 1</td>
<td>0.701</td>
<td>3.0</td>
<td>0.764</td>
<td>6.1</td>
</tr>
<tr>
<td>Serum 2</td>
<td>1.020</td>
<td>3.4</td>
<td>1.088</td>
<td>5.0</td>
</tr>
<tr>
<td>Serum 3</td>
<td>1.610</td>
<td>1.3</td>
<td>1.682</td>
<td>3.3</td>
</tr>
</tbody>
</table>
10 SAFETY MEASURES

10.1 Statements of Warning
The IBL-America ELISA test kits are designed for use by qualified personnel who are familiar with good laboratory practice.

All kit reagents and human specimens should be handled carefully, using established good laboratory practice.

- This kit contains human blood components. Although all control- and cut-off sera have been tested and found negative for anti-HIV-ab, HBs-Ag *(Hepatitis B-Virus-surface Antigen)* and anti-HCV-ab, they should be considered potentially infectious.

- Do not pipette by mouth.

- Do not smoke, eat or drink in areas in which specimens or kit reagents are handled.

- Wear disposable gloves, laboratory coat and safety glasses while handling kit reagents or specimens. Wash hands thoroughly afterwards.

- Patient’s material and other potentially infectious material should be decontaminated after the test run.

- Reagents should be stored safely and be inaccessible to unauthorized access e.g. children.

10.2 Disposal
Please observe the relevant statutory requirements!

11 REFERENCES


