17beta-Estradiol
Saliva ELISA

Enzyme immunoassay for the quantitative determination of free 17beta-estradiol in human saliva.

REF RE52601

Σ 96

i 2-8°C

EU: IVD CE
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1 INTRODUCTION

1.1 Intended Use
Enzyme immunoassay for the quantitative measurement of active free Estradiol, an estrogenic steroid, in saliva. Results may be used in the diagnosis and treatment of various hormonal sexual disorders and in assessing placental function in complicated pregnancy.

1.2 Summary and Explanation
Estradiol (1,3,5(10)-estratriene-3,17β-diol; 17β-estradiol; E21) is a C18 steroid hormone with a phenolic A ring. This steroid hormone has a molecular weight of 272.4. It is the most potent natural Estrogen, produced mainly by the Graffian follicle of the female ovary and the placenta, and in smaller amounts by the adrenals, and the male testes (1-3). Estradiol (E2) is secreted into the blood stream where 98% of it circulates bound to sex hormone binding globulin (SHBG) and to a lesser extent to other serum proteins such as albumin. Only a small fraction circulates as free hormone or in the conjugated form (4,5). Estrogenic activity is effected via estradiol-receptor complexes which trigger the appropriate response at the nuclear level in the target sites. These sites include the follicles, uterus, breast, vagina, urethra, hypothalamus, pituitary and to a lesser extent the liver and skin.

In non-pregnant women with normal menstrual cycles, estradiol secretion follows a cyclic, biphasic pattern with the highest concentration found immediately prior to ovulation (6,7). The rising estradiol concentration is understood to exert a positive feedback influence at the level of the pituitary where it influences the secretion of the gonadotropins, follicle stimulating hormone (FSH), and luteinizing hormone (LH), which are essential for follicular maturation and ovulation, respectively (8). Following ovulation, estradiol levels fall rapidly until the luteal cells become active resulting in a secondary gentle rise and plateau of estradiol in the luteal phase. During pregnancy, maternal serum Estradiol levels increase considerably, to well above the pre-ovulatory peak levels and high levels are sustained throughout pregnancy (9).

2 PRINCIPLE OF THE TEST
The IBL salivary Estradiol ELISA kit is based on the competition principle and the microplate separation.

An unknown amount of Estradiol present in the sample and a fixed amount of Estradiol conjugated with horse-radish peroxidase compete for the binding sites of a polyclonal Estradiol antiserum coated onto the wells. After two hours incubation the microtiter plate is washed to stop the competition reaction. Having added the substrate solution the concentration of Estradiol is inversely proportional to the optical density measured.

3 WARNINGS AND PRECAUTIONS
1. This kit is for in vitro diagnostic use only. For professional use only.
2. All reagents of this test kit which contain human serum or plasma have been tested and confirmed negative for HIV I/II, HBsAg and HCV by FDA approved procedures. All reagents, however, should be treated as potential biohazards in use and for disposal.
3. Before starting the assay, read the instructions completely and carefully. Use the valid version of the package insert provided with the kit. Be sure that everything is understood.
4. The microplate contains snap-off strips. Unused wells must be stored at 2 °C to 8 °C in the sealed foil pouch and used in the frame provided.
5. Pipetting of samples and reagents must be done as quickly as possible and in the same sequence for each step.
6. Use reservoirs only for single reagents. This especially applies to the substrate reservoirs. Using a reservoir for dispensing a substrate solution that had previously been used for the conjugate solution may turn solution colored. Do not pour reagents back into vials as reagent contamination may occur.
7. Mix the contents of the microplate wells thoroughly to ensure good test results. Do not reuse microwells.
8. Do not let wells dry during assay; add reagents immediately after completing the rinsing steps.
9. Allow the reagents to reach room temperature (21-26°C) before starting the test. Temperature will affect the absorbance readings of the assay. However, values for the patient samples will not be affected.
10. Never pipet by mouth and avoid contact of reagents and specimens with skin and mucous membranes.
11. Do not smoke, eat, drink or apply cosmetics in areas where specimens or kit reagents are handled.
12. Wear disposable latex gloves when handling specimens and reagents. Microbial contamination of reagents or specimens may give false results.
13. Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation.
14. Do not use reagents beyond expiry date as shown on the kit labels.
15. All indicated volumes have to be performed according to the protocol. Optimal test results are only obtained when using calibrated pipettes and microtiterplate readers.
16. Do not mix or use components from kits with different lot numbers. It is advised not to exchange wells of different plates even of the same lot. The kits may have been shipped or stored under different conditions and the binding characteristics of the plates may result slightly different.
17. Avoid contact with Stop Solution containing 0.5 M H₂SO₄. It may cause skin irritation and burns.
18. Some reagents contain Proclin, BND and MIT as preservatives. In case of contact with eyes or skin, flush immediately with water.
19. TMB substrate has an irritant effect on skin and mucosa. In case of possible contact, wash eyes with an abundant volume of water and skin with soap and abundant water. Wash contaminated objects before reusing them. If inhaled, take the person to open air.
20. Chemicals and prepared or used reagents have to be treated as hazardous waste according to the national biohazard safety guideline or regulation.
21. For information on hazardous substances included in the kit please refer to Material Safety Data Sheets. Material Safety Data Sheets for this product are available upon request directly from IBL.

4 REAGENTS

4.1 Reagents provided
1. **MTP Microtitewells**, 12x8 (break apart) strips, 96 wells; Wells coated with a anti-Estradiol antibody (polyclonal).
2. **CAL 0-5 Standard (Standard 0-5)**, 6 vials, 1 mL each, ready to use; Concentration: 0.0; 1, 5, 10, 50, 100 pg/mL Contain non-mercury preservative.
3. **CONTROL LOW**
   **CONTROL HIGH** Control Low & High, 2 vials, 1.0 mL each, ready to use; Control values and ranges please refer to vial label or QC-Datasheet. Contain non-mercury preservative.
4. **ENZCONJ Enzyme Conjugate**, 1 vial, 26 mL, ready to use; Estradiol conjugated to horseradish peroxidase; Contain non-mercury preservative.
5. **TMB SUBS Substrate Solution**, 1 vial, 25 mL, ready to use; Tetramethylbenzidine (TMB).
6. **STOP Stop Solution**, 1 vial, 14 mL, ready to use; contains 0.5M H₂SO₄ Avoid contact with the stop solution. It may cause skin irritations and burns.
7. **WASHBUF CONC** Wash Solution, 1 vial, 30 mL; Concentrate for 1200 mL;

4.2 Material required but not provided
- Calibrated EIA reader adjusted to read at 450 nm
- Calibrated variable precision micropipettes (100 µL and 200 µL)
- Distilled or Deionized water
- 0.9 % NaCl solution
- Timer (60 min. range)
- Reservoirs (disposable)
- Test tube or microtube rack in a microplate configuration
- Semi-logarithmic graph paper or software for data reduction

4.3 Storage Conditions
When stored at 2 °C to 8 °C unopened reagents will retain reactivity until expiration date. Do not use reagents beyond this date. Opened reagents must be stored at 2 °C to 8 °C. Microtiter wells must be stored at 2 °C to 8 °C. Once the foil bag has been opened, care should be taken to close it tightly again. Opened kits retain activity for two month if stored as described above.

4.4 Reagent Preparation
Bring all reagents to room temperature before use.

**Wash Solution**
Add deionized water to the 40X concentrated Wash Solution. Dilute 30 mL of concentrated Wash Solution with 1170 mL deionized water to a final volume of 1200 mL. The diluted Wash Solution is stable for 2 weeks at room temperature.
4.5 Disposal of the Kit
The disposal of the kit must be made according to the national regulations. Special information for this product is given in the Material Safety Data Sheet.

4.6 Damaged Test Kits
In case of any severe damage to the test kit or components, IBL has to be informed in writing, at the latest, one week after receiving the kit. Severely damaged single components should not be used for a test run. They have to be stored until a final solution has been found. After this, they should be disposed according to the official regulations.

5 SPECIMEN COLLECTION AND PREPARATION
Eating, drinking, chewing gums or brushing teeth should be avoided for 30 minutes before sampling. Otherwise, it is recommended to rinse mouth thoroughly with cold water 5 minutes prior to sampling.
Do not collect samples when oral diseases, inflammation or lesions exist (blood contamination).
In case of visible blood contamination the patient should discard the sample, rinse the sampling device with water, wait for 10 minutes and take a new sample.
*Note:* Samples containing sodium azide should *not* be used in the assay.

5.1 Specimen Collection
It is recommended to collect saliva samples with commercially available equipment.
Do not use any cotton swab for sampling, such as Salivettes; this in most cases will result in significant interferences.
Due to the episodic secretion pattern of steroid hormones it is important to care for a proper timing of the sampling.
In order to avoid arbitrary results we recommend that always 5 samples be taken within a period of 2 – 3 hours (*multiple sampling*) preferably before a meal.
As food might contain significant amounts of steroid hormones samples preferably should be taken while fasting. If fasting should be a problem the collection period should be timed just before lunch or before dinner.

5.2 Specimen Storage and Preparation
Specimens should be capped and may be stored for up to one week at 2 °C to 8 °C prior to assaying.
Specimens held for a longer time should be frozen –20 °C prior to assay. Even repeated thawing and freezing is no problem.

Each sample has to be frozen, thawed, and centrifuged at least once anyhow in order to separate the mucins by centrifugation.
Upon arrival of the samples in the lab the samples have to stay in the deep freeze at least overnight. Next morning the frozen samples are warmed up to room temperature and mixed carefully.
Then the samples have to be centrifuged for 5 to 10 minutes (at 3000 - 2000 x g).
Now the clear colorless supernatant is easy to pipette.
If a set of multiple samples have to be tested, the lab (after at least one freezing, thawing, and centrifugation cycle) has to mix the aliquots of the 5 single samples in a separate sampling device and perform the testing from this mixture.

5.3 Specimen Dilution
If in an initial assay, a specimen is found to contain more than the highest standard, the specimens can be diluted with 0.9 % NaCl and re-assayed as described in Assay Procedure.
For the calculation of the concentrations this dilution factor has to be taken into account.
Example:

a) Dilution 1:10: 10 µL saliva + 90 µL 0.9 % NaCl (mix thoroughly)
b) Dilution 1:100: 10 µL of dilution a) + 90 µL 0.9 % NaCl (mix thoroughly).
6 ASSAY PROCEDURE

6.1 General Remarks

- All reagents and specimens must be allowed to come to room temperature before use. All reagents must be mixed without foaming.
- Once the test has been started, all steps should be completed without interruption.
- Use new disposable plastic pipette tips for each standard, control or sample in order to avoid cross contamination.
- Absorbance is a function of the incubation time and temperature. Before starting the assay, it is recommended that all reagents are ready, caps removed, all needed wells secured in holder, etc. This will ensure equal elapsed time for each pipetting step without interruption.
- As a general rule the enzymatic reaction is linearly proportional to time and temperature.

6.2 Test Procedure

Each run must include a standard curve.
All standards, samples, and controls should be run in duplicate. All standards, samples, and controls should be run concurrently so that all conditions of testing are the same.

1. Secure the desired number of Microtiter wells in the holder.
2. Dispense 100 µL of each Standard, Control and samples with new disposable tips into appropriate wells.
3. Incubate for 30 minutes at room temperature
4. Dispense 200 µL of Enzyme Conjugate into each sample and standard well
   Mix the plate thoroughly for 10 seconds. It is important to have a complete mixing in this step.
5. Incubate for 120 minutes at room temperature.
6. Briskly shake out the contents of the wells.
   Rinse the wells 3 times with diluted Wash Solution (400 µL per well). Strike the wells sharply on absorbent paper to remove residual droplets.
   **Important note:** The sensitivity and precision of this assay is markedly influenced by the correct performance of the washing procedure!
7. Add 200 µL of Substrate Solution to each well.
8. Incubate for 30 minutes at room temperature.
9. Stop the enzymatic reaction by adding 100 µL of Stop Solution to each well.
10. Determine the absorbance (OD) of each well at 450±10 nm with a microtiter plate reader.
    It is recommended that the wells be read within 10 minutes after adding the Stop Solution.

6.3 Calculation of Results

1. Calculate the average absorbance values for each set of standards, controls and patient samples.
2. Using semi-logarithmic graph paper, construct a standard curve by plotting the mean absorbance obtained from each standard against its concentration with absorbance value on the vertical (Y) axis and concentration on the horizontal (X) axis.
3. Using the mean absorbance value for each sample, determine the corresponding concentration from the standard curve.
4. Automated method: The results in the IFU have been calculated automatically using a 4 PL (4 Parameter Logistics) curve fit. 4 Parameter Logistics is the preferred method. Other data reduction functions may give slightly different results.
5. The concentration of the samples can be read directly from this standard curve. Samples with concentrations higher than that of the highest standard have to be further diluted or reported as > 100 pg/mL. For the calculation of the concentrations this dilution factor has to be taken into account.

6.3.1 Example of Typical Standard Curve
The following data is for demonstration only and **cannot** be used in place of data generations at the time of assay.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Absorbance Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard 0</td>
<td>1.89</td>
</tr>
<tr>
<td>Standard 1</td>
<td>1.71</td>
</tr>
<tr>
<td>Standard 2</td>
<td>1.48</td>
</tr>
<tr>
<td>Standard 3</td>
<td>1.20</td>
</tr>
<tr>
<td>Standard 4</td>
<td>0.46</td>
</tr>
<tr>
<td>Standard 5</td>
<td>0.32</td>
</tr>
</tbody>
</table>
7 EXPECTED NORMAL VALUES

In order to determine the normal range of Estradiol, saliva samples from 18 adult male and 54 female apparently healthy subjects, ages 19 to 75 years, were collected in the morning and analyzed using the IBL 17beta-Estradiol Saliva ELISA. The following ranges were calculated from this study.

<table>
<thead>
<tr>
<th>Age group</th>
<th>Salivary Estradiol [pg/mL]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td></td>
</tr>
<tr>
<td>19 - 50 years</td>
<td>n = 41</td>
</tr>
<tr>
<td>51 - 75 years</td>
<td>Postmenopausal: n = 13</td>
</tr>
<tr>
<td>Men</td>
<td>n = 18</td>
</tr>
</tbody>
</table>

Therapy should not be decided based on results alone. The results should be correlated to other clinical observations and diagnostic tests.

Salivary Estradiol values show a clear circadian rhythm. We therefore recommend the saliva samples be obtained the same hour each day.

Furthermore, we recommend that each laboratory establish its own range for the population tested, because the values differ between age, new born, children, adolescents and adults.

8 QUALITY CONTROL

Good laboratory practice requires that controls be run with each calibration curve. A statistically significant number of controls should be assayed to establish mean values and acceptable ranges to assure proper performance.

It is recommended to use control samples according to state and federal regulations. The use of control samples is advised to assure the day to day validity of results. Use controls at both normal and pathological levels.

The controls and the corresponding results of the QC-Laboratory are stated in the QC certificate added to the kit. The values and ranges stated on the QC sheet always refer to the current kit lot and should be used for direct comparison of the results.

It is also recommended to make use of national or international Quality Assessment programs in order to ensure the accuracy of the results.

Employ appropriate statistical methods for analyzing control values and trends. If the results of the assay do not fit to the established acceptable ranges of control materials patient results should be considered invalid.

In this case, please check the following technical areas: Pipetting and timing devices; photometer, expiration dates of reagents, storage and incubation conditions, aspiration and washing methods.

After checking the above mentioned items without finding any error contact your distributor or IBL directly.
9 PERFORMANCE CHARACTERISTICS

9.1 Assay Dynamic Range
The range of the assay is between 0.6 – 100 pg/mL.

9.2 Specificity
The following materials have been evaluated for cross reactivity. The percentage indicates cross reactivity at 50 % displacement compared to Estradiol.

<table>
<thead>
<tr>
<th>Compound</th>
<th>Cross reaction [%]</th>
<th>Compound</th>
<th>Cross reaction [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estradiol-17β</td>
<td>100</td>
<td>11-Deoxycortisol</td>
<td>0</td>
</tr>
<tr>
<td>Androstenedione</td>
<td>0</td>
<td>21-Deoxycortisol</td>
<td>0</td>
</tr>
<tr>
<td>Androsterone</td>
<td>0</td>
<td>Dihydrotestosterone</td>
<td>0</td>
</tr>
<tr>
<td>Corticosterone</td>
<td>0</td>
<td>Dihydroepiandrosterone</td>
<td>0</td>
</tr>
<tr>
<td>Cortisone</td>
<td>0</td>
<td>20-Dihydroprogesterone</td>
<td>0</td>
</tr>
<tr>
<td>Epiandrostrosterone</td>
<td>0</td>
<td>11-Hydroxyprogesterone</td>
<td>0</td>
</tr>
<tr>
<td>16-Epiestriol</td>
<td>0</td>
<td>17α-Hydroxyprogesterone</td>
<td>0.003</td>
</tr>
<tr>
<td>Estradiol-3-sulfate</td>
<td>0</td>
<td>17α-Pregnenolone</td>
<td>0</td>
</tr>
<tr>
<td>Estradiol-3-glucuronide</td>
<td>0</td>
<td>17α-Progesterone</td>
<td>0</td>
</tr>
<tr>
<td>Estradiol-17α</td>
<td>0</td>
<td>Pregnanediol</td>
<td>0</td>
</tr>
<tr>
<td>Estriol</td>
<td>2.27</td>
<td>Pregnanetriol</td>
<td>0</td>
</tr>
<tr>
<td>Estriol-16-glucuronide</td>
<td>0</td>
<td>Pregnenolone</td>
<td>0</td>
</tr>
<tr>
<td>Estrone</td>
<td>6.86</td>
<td>Progesterone</td>
<td>0</td>
</tr>
<tr>
<td>Estrone-3-sulfate</td>
<td>0</td>
<td>Testosterone</td>
<td>0.033</td>
</tr>
<tr>
<td>Dehydroepiandrosterone</td>
<td>0</td>
<td>Fulvestrant</td>
<td>0.9</td>
</tr>
</tbody>
</table>

9.3 Sensitivity
The lowest detectable level of Estradiol that can be distinguished from the Zero Standard is 0.6 pg/mL at the 95 % confidence limit.

9.4 Reproducibility

9.4.1 Intra Assay
The intra-assay variation was determined by 20 replicate measurements of 3 saliva samples using IBL 17beta-Estradiol Saliva ELISA.

The within assay variability is shown below:

<table>
<thead>
<tr>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (pg/mL)</td>
<td>8.3</td>
<td>30.5</td>
</tr>
<tr>
<td>SD (pg/mL)</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>CV (%)</td>
<td>8.3</td>
<td>2.4</td>
</tr>
<tr>
<td>n =</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

9.4.2 Inter Assay
The inter-assay (between-run) variation was determined by duplicate measurements of four saliva samples over 10 different days runs.

The between assay variability is shown below:

<table>
<thead>
<tr>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 3</th>
<th>Sample 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean (pg/mL)</td>
<td>6.6</td>
<td>29.9</td>
<td>65.0</td>
</tr>
<tr>
<td>SD (pg/mL)</td>
<td>0.8</td>
<td>1.5</td>
<td>1.8</td>
</tr>
<tr>
<td>CV (%)</td>
<td>12.0</td>
<td>4.9</td>
<td>2.8</td>
</tr>
<tr>
<td>n =</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>
9.5 Recovery
Recovery of the IBL ELISA was determined by adding increasing amounts of the analyte to three different saliva samples containing different amounts of endogenous analyte. Each sample (non-spiked and spiked) was assayed and analyte concentrations of the samples were calculated from the standard curve. The percentage recoveries were determined by comparing expected and measured values of the samples.

<table>
<thead>
<tr>
<th></th>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration (pg/mL)</td>
<td>0.6</td>
<td>19.8</td>
<td>20.8</td>
</tr>
<tr>
<td>Average % recovery</td>
<td>98.9</td>
<td>90.1</td>
<td>106.3</td>
</tr>
<tr>
<td>Range of</td>
<td>86.6</td>
<td>85.4</td>
<td>102.4</td>
</tr>
<tr>
<td>Recovery %</td>
<td>112.0</td>
<td>96.1</td>
<td>111.0</td>
</tr>
</tbody>
</table>

9.6 Linearity
Three samples (saliva) containing different amounts of analyte were serially diluted up to 1:16 with 0.9 % NaCl and assayed with the IBL ELISA. The percentage recovery was calculated by comparing the expected and measured values for Estradiol.

An assay linearity of 0.8 – 93 pg/mL has been identified as the usable range. Samples above this range must be diluted and re-run.

<table>
<thead>
<tr>
<th></th>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration (pg/mL)</td>
<td>75.6</td>
<td>62.9</td>
<td>31.7</td>
</tr>
<tr>
<td>Average % recovery</td>
<td>104.8</td>
<td>95.7</td>
<td>91.6</td>
</tr>
<tr>
<td>Range of</td>
<td>96.0</td>
<td>88.5</td>
<td>90</td>
</tr>
<tr>
<td>Recovery %</td>
<td>112.8</td>
<td>106.7</td>
<td>93.3</td>
</tr>
</tbody>
</table>

10 LIMITATIONS OF USE
Reliable and reproducible results will be obtained when the assay procedure is performed with a complete understanding of the package insert instruction and with adherence to good laboratory practice. Any improper handling of samples or modification of this test might influence the results.

The patient should not eat, drink, chew gum or brush teeth for 30 minutes before sampling. Otherwise rinse mouth thoroughly with cold water 5 min prior to sample collection. Do not collect samples when oral diseases, inflammation or lesions exist (blood contamination).

10.1 Interfering Substances
Blood contamination of more than 0.16 % in saliva samples will affect results, and usually can be seen by eye. Therefore, samples containing any visible blood should not be used. Concentrations of Sodium Azide ≥ 0.02 % interferes in this assay and may lead to false results.

10.2 Drug Interferences
The Salivary Estradiol ELISA should not be used for patients being treated with the drug fulvestrant (Faslodex®) which cross reacts in the Salivary Estradiol ELISA and could lead to falsely elevated test results.

10.3 High-Dose-Hook Effect
No hook effect was observed in this test.
11 LEGAL ASPECTS

Only for countries where the declaration of European Conformity (CE mark) is applicable

11.1 Reliability of Results

The test must be performed exactly as per the manufacturer’s instructions for use. Moreover, the user must strictly adhere to the rules of GLP (Good Laboratory Practice) or other applicable national standards and/or laws. This is especially relevant for the use of control reagents. It is important to always include, within the test procedure, a sufficient number of controls for validating the accuracy and precision of the test.

The test results are valid only if all controls are within the specified ranges and if all other test parameters are also within the given assay specifications. In case of any doubt or concern please contact IBL.

11.2 Therapeutic Consequences

Therapeutic consequences should never be based on laboratory results alone even if all test results are in agreement with the items as stated under point 11.1. Any laboratory result is only a part of the total clinical picture of a patient. Only in cases where the laboratory results are in acceptable agreement with the overall clinical picture of the patient should therapeutic consequences be derived.

The test result itself should never be the sole determinant for deriving any therapeutic consequences.

11.3 Liability

Any modification of the test kit and/or exchange or mixture of any components of different lots from one test kit to another could negatively affect the intended results and validity of the overall test. Such modification and/or exchanges invalidate any claim for replacement.

Claims submitted due to customer misinterpretation of laboratory results subject to point 11.2. are also invalid. Regardless, in the event of any claim, the manufacturer’s liability is not to exceed the value of the test kit. Any damage caused to the test kit during transportation is not subject to the liability of the manufacturer.

12 REFERENCES

<table>
<thead>
<tr>
<th>REF</th>
<th>Cat.-No.: / Kat.-Nr.: / No.- Cat.: / Cat.-No.: / N.º Cat.: / N.–Cat.:</th>
<th>Αριθμός Κατ. / Αριθμός Κατ. / Αριθμός Κατ. / Αριθμός Κατ. / Αριθμός Κατ. / Αριθμός Κατ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOT</td>
<td>Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lote N.º: / Lotto n.:</td>
<td>Αριθμός Κατασκευής / Αριθμός Κατασκευής / Αριθμός Κατασκευής / Αριθμός Κατασκευής / Αριθμός Κατασκευής / Αριθμός Κατασκευής</td>
</tr>
<tr>
<td>CONC</td>
<td>Concentrate / Konzentrat / Concentré / Concentrar / Concentrado / Concentrato</td>
<td>Συμπύκνωμα / Συμπύκνωμα / Συμπύκνωμα / Συμπύκνωμα / Συμπύκνωμα / Συμπύκνωμα</td>
</tr>
<tr>
<td>LYO</td>
<td>Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizzato / Λυοφιλιασμένο</td>
<td>Συμπύκνωμα Λύωσης / Συμπύκνωμα Λύωσης / Συμπύκνωμα Λύωσης / Συμπύκνωμα Λύωσης / Συμπύκνωμα Λύωσης / Συμπύκνωμα Λύωσης</td>
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<tr>
<td>IVD</td>
<td>In Vitro Diagnostic Medical Device. / In-vitro-Diagnostikum. / Appareil Médical pour Diagnostics In Vitro. / Equipamento Médico de Diagnóstico In Vitro. / Dispositivo Medico Diagnostic In vitro.</td>
<td>Τριγύρισμα Ιατρικής Για In-Vitro Διάγνωση / Τριγύρισμα Ιατρικής Για In-Vitro Διάγνωση / Τριγύρισμα Ιατρικής Για In-Vitro Διάγνωση / Τριγύρισμα Ιατρικής Για In-Vitro Διάγνωση / Τριγύρισμα Ιατρικής Για In-Vitro Διάγνωση</td>
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<tr>
<td>Evaluation kit. / Nur für Leistungsbewertungszwecke. / Kit pour évaluation. / Juego de Reactivos para Evaluación. / Kit de evaluación. / Kit Αξιολόγησης</td>
<td>Εξεταστικό / Εξεταστικό / Εξεταστικό / Εξεταστικό / Εξεταστικό / Εξεταστικό</td>
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<tr>
<td>Read instructions before use. / Arbeitsanleitung lesen. / Lire la fiche technique avant emploi. / Leer las instrucciones antes de usar. / Leggere le istruzioni prima dell’uso.</td>
<td>Διαβάστε τις οδηγίες πριν την χρήση / Διαβάστε τις οδηγίες πριν την χρήση / Διαβάστε τις οδηγίες πριν την χρήση / Διαβάστε τις οδηγίες πριν την χρήση / Διαβάστε τις οδηγίες πριν την χρήση</td>
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<td>Store at: / Lager bei: / Stocker à: / Almacene a: / Armazenar a: / Conservare a:</td>
<td>Αποθήκευση στους / Αποθήκευση στους / Αποθήκευση στους / Αποθήκευση στους / Αποθήκευση στους / Αποθήκευση στους</td>
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<td>Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbricante: / Παραγωγός</td>
<td>Παραγωγός / Παραγωγός / Παραγωγός / Παραγωγός / Παραγωγός / Παραγωγός</td>
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</table>

Symbols of the kit components see MATERIALS SUPPLIED.

Die Symbole der Komponenten sind im Kapitel KOMPONENTEN DES KITS beschrieben.

Voir MATERIEL FOURNI pour les symbôles des composants du kit.

Símbolos de los componentes del juego de reactivos, vea MATERIALES SUMINISTRADOS.

Para símbolos dos componentes do kit ver MATERIAIS FORNECIDOS.

Per i simboli dei componenti del kit si veda COMPONENTI DEL KIT.

Για τα σύμβολα των συστατικών του κιτ συμβουλευτείτε το ΠΑΡΕΧΟΜΕΝΑ ΥΛΙΚΑ.

COMPLAINTS: Complaints may be submitted initially written or vocal. Subsequently they need to be filed including the test performance and results in writing in case of analytical reasons.

WARRANTY: The product is warranted to be free from material defects within the specific shelf life and to comply with product specifications delivered with the product. The product must be used according to the Intended use, all instructions given in the instructions for use and within the product specific shelf life. Any modification of the test procedure or exchange or mixing of components of different lots could negatively affect the results. These cases invalidate any claim for replacement.

LIMITATION OF LIABILITY: IN ALL CIRCUMSTANCES THE EXTENT OF MANUFACTURER’S LIABILITY IS LIMITED TO THE PURCHASE PRICE OF THE KIT(S) IN QUESTION. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS.