ELISA-VIDITEST anti-HHV-6 lgG (CSF)

REF ODZ-344

 $\sqrt{\Sigma}$ 96 tests

₂°c ✔ ^{10°C} 2°C - 10°C

Type of determination: IgG antibodies

Type of evaluation: Qualitative, Semiquantitative, Quantitative

Type of samples: Serum/Plasma isolated from venous or capillary blood/Cerebrospinal fluid

Possibility of determination: Intrathecal synthesis

Processing possibility: Manual





Instruction manual

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1. TITLE

ELISA-VIDITEST anti-HHV-6 IgG (CSF)

2. INTENTED USE

The kit is intended for professional use for the qualitative, semiquantitative and quantitative detection of IgG antibodies to Herpes virus subtype 6 (HHV-6) in human serum and plasma isolated from venous or capillary blood or cerebrospinal fluid for the determination of intrathecal synthesis in the diagnosis of diseases associated with HHV-6 infection, such as exanthema subitum, acute respiratory illnesses, diarrhoea with fever and febrile seizures in infants, heterophile antibody-negative infectious mononucleosis in children, also interstitial pneumonia, encephalitis, meningitis, hepatitis and aplastic anemia in immunodeficient patients. The presence of IgG anti-HHV-6 antibody reveals the immune status of the patient. The test does not differentiate between HHV-6 subtype A and B.

A significant increase in the concentration of specific antibodies in paired samples (taken in the acute and convalescent phases of infection) indicates active infection. Demonstration of intrathecal antibody synthesis may indicate central nervous system (CNS) infection. An additional test for serological testing of HHV-6 infection is the determination of IgM antibodies (ELISA-VIDITEST anti-HHV-6 IgM)

3. TEST PRINCIPLE

ELISA-VIDITEST anti-HHV-6 IgG (CSF) is a solid-phase immunoanalytical test. The strips are coated with native HHV-6 antigen. If antibodies are present in the test samples, they will bind to the immobilized proteins. The bound antibodies then react in the next step with horseradish peroxidase-labeled anti-human IgG antibodies. The amount of bound labeled antibodies is determined by a color enzymatic reaction. Negative samples do not react, a slight change in the color of the wells is the background of the reaction.

Intrathecal antibody testing provides information on the anti-HHV-6 antibody response in the central nervous system. For this assay, it is necessary to quantify the concentration of HHV-6-specific IgG antibodies in paired serum / plasma and cerebrospinal fluid samples taken from the patient at the same time. Accurate quantification of antibodies can only be performed according to the linear part of the calibration curve. Therefore, it is recommended to test the serum in two dilutions (see Chapter 6 Reagent preparation). The total IgG and albumin concentrations in both samples must be known for the determination. The calculation of intrathecal synthesis of specific antibodies is performed using the Reiber equation (see Chapter 8.4 Intrathecal synthesis of specific IgG antibodies).

4. KIT COMPONENTS

ELISA break-away strips in the handling frame coated with the specific antigen STRIPS Ag	1 x 12 pcs
1.3 mL Standard A = Negative control human serum, r.t.u. 1) ST A/NC	1 vial
1.3 mL Standard B (human serum), r.t.u. ST B	1 vial
1.3 mL Standard C (human serum), r.t.u. ST C	1 vial
1.3 mL Standard D = Calibrator (human serum), r.t.u. ST D/CAL	1 vial
1.3 mL Standard E = Positive control human serum, r.t.u. ST E/PC	1 vial

13 mL Anti-human IgG animal antibodies labelled with horseradish peroxidase

(anti-IgG Px conjugate) r.t.u. CONJ	1 vial
55 mL Wash buffer, 10x concentrated WASH 10x	1 vial
60 mL Dilution buffer, r.t.u. DIL	1 vial
13 mL Chromogenic substrate TMB, r.t.u. (TMB/H ₂ O ₂) TMB	1 vial
13 mL Stop solution, r.t.u. (0.4 M sulfuric acid) STOP	1 vial
Instruction manual	
Quality Control Certificate	
¹⁾ r.t.u., ready to use	
Notice: Control sera may be colorless to vellowish or blue due to the use of different diluents	

Chromogenic substrate TMB is compatible and interchangeable between ELISA-VIDITEST kits which contain TMB and not compatible with other Chromogenic substrates used in other ELISA-VIDITEST TMB-O, TMB-BF.

5. MATERIALS REQUIRED BUT NOT PROVIDED

Distilled/deionised water for dilution of the Wash buffer WASH 10x, pipetting equipment, equipment for liquid dispensing and strip washing, spectrophotometer/colorimeter, thermostat for incubation of the microtiter plate at 37 °C.

All instruments and devices used must have a valid function validation.

6. REAGENTS PREPARATION

- a. Allow all kit components to reach room temperature. Turn on the thermostat to 37 °C.
- b. Thoroughly mix Dilution buffer DIL, Conjugate anti-IgG Px CONJ and Chromogenic substrate TMB.
- c. Thoroughly mix tested samples and control sera just prior to testing. Dilute the tested samples 101x with Dilution buffer DIL (e.g. 5 μL sample + 500 μL Dilution buffer). For evaluation of the intrathecal production test two dilutions of serum samples are recommended: 101x and 404x. Dilution 404x prepare by 4x diluting of the 101x diluted serum sample (e.g. 150 μL of Dilution buffer + 50 μL of serum sample diluted 101x). Dilute cerebrospinal fluid samples 1:1 in Dilution buffer (e.g. 75 μL of cerebrospinal fluid sample + 75 μL of Dilution buffer). Do not dilute control sera and calibrator, they are in working concentration (r.t.u., ready to use).
- d. Prepare a working concentration of Wash buffer WASH 10x by diluting it 10x in a suitable volume of distilled/deionized water (eg. 50 mL of WASH 10x + 450 mL H₂O). If there are salt crystals in the concentrated solution, warm it in a water bath of + 32 °C to + 37 °C and mix well before diluting. Unused wash solution in working concentration can be stored for 1 month at room temperature.
- e. **Do not dilute** Conjugate anti-IgG Px CONJ, Chromogenic substrate TMB and Stop solution STOP, they are ready to use.

7. ASSAY PROCEDURE

The manufacturer is not responsible for the correct function of the kit if the assay procedure is not followed.

a. Allow strips STRIPS Ag, vacuum sealed with desiccant, to reach room temperature before opening the bag, to avoid dew condensation of the plate. Prepare the required number of strips for the reaction. Seal unused strips together with the desiccant in a zipper bag or seal under vacuum.

b. Choose the proper method for data interpretation (see paragraph 8) and apply the samples to the plate accordingly. Fill the wells with 100 µL of Standards and diluted samples according to the pipetting scheme:

Start with filling the first well with Dilution buffer DIL to estimate the reaction background. In case of choosing the <u>qualitative or semiquantitative evaluation</u>, fill two wells with Standard D <u>ST D/CAL</u>, serves as a calibrator. Next well with Positive control serum <u>ST E/PC</u> and next one well with Negative control serum <u>ST A/NC</u> (see Figure 1).

In case of <u>quantitative evaluation</u>, fill one of each well wilt Standards A-E (<u>ST A/NC</u>, <u>ST B</u>, <u>ST C</u>, <u>ST D/CAL</u>, <u>ST E/PC</u>). Fill the remaining wells with diluted samples (S1, S2, S3, ...), (see Figure 2). It is sufficient to apply samples as singlets, however, if you wish to minimize the laboratory error apply control sera and tested samples as doublets (Figure 3), in the case of qualitative and semiquantitative evaluation apply Standard D <u>ST D/CAL</u> as triplet. We recommend to include positive reference serum sample (your in-house internal control) into each run to follow the sequence, variability and accuracy of calibration.

Incubate 30 minutes (+/- 2 min) at 37 °C.

- c. Aspirate the contents of the wells into a safety collection bottle containing a suitable disinfectant (see WARNINGS). Then wash the wells 4 times with 250 µL of wash solution. Avoid overflowing the solution out of the wells. Aspirate the contents of the wells and tap the plate on an adsorbent paper.
- d. Mix thoroughly the vial of anti-IgG Px conjugate CONJ and pipette 100 μL of anti-IgG Px conjugate CONJ into the wells.

Incubate 30 minutes (+/- 2 min) at 37 °C.

- e. Aspirate the fluid from the wells and wash them with 4 x 250 µL of wash solution. Aspirate and tap.
- f. Pipette 100 µL of Chromogenic substrate TMB solution into the wells.

Incubate for 15 minutes (+/- 30 sec) in the dark at room temperature.

Start measuring the incubation time after pipetting the first strip of the plate. Follow this rule to avoid breaking the time interval. Pipette quickly at regular rhythm, or use a suitable dispenser. Cover the strips with foil, an opaque lid, or keep them in a dark place for the duration of the reaction.

- g. Stop the reaction by adding 100 µL of Stop solution STOP. Pipette at the same rate as the Chromogenic substrate TMB so that the enzymatic reaction proceeds in all wells at the same time. Check that there are no bubbles in the wells, if so, gently tap the plate frame to remove them.
- h. Measure the intensity of the colour reaction on a spectrophotometer/colorimeter at 450 nm within **20 minutes** after stopping the reaction. We recommend using a 620-690 nm reference filter.

	1	2	3	4	5	6	7	8	9	10	11	12
а	DIL											
b	ST D/CAL											
С	ST D/CAL											
d	ST E/PC											
е	ST A/NC											
f	S1											
g	S2											
h	S											

Figure 1: Scheme of sample application for qualitative and semiquantitative evaluation

	1	2	3	4	5	6	7	8	9	10	11	12
а	DIL	S3										
b	STA/NC	S										
С	ST B											
d	ST C											
е	STD/CAL											
f	STE/PC											
g	S1											
h	S2											

Figure 2: Scheme of sample application for quantitative evaluation (singlets)

Figure 3: Scheme of sample application for quantitative evaluation (doublets)

	1	2	3	4	5	6	7	8	9	10	11	12
а	DIL	S2										
b	STA/NC	S2										
C	ST B	S										
d	ST C	S										
е	STD/CAL											
f	STE/PC											
g	S1											
h	S1											

8. TEST EVALUATION

First, subtract the absorbance of the well with Dilution buffer DIL (DIL = reaction background) from the calibrator, control sera, and test samples.

If the values of Control sera or tested samples are negative after background subtraction, consider them as zero value.

8.1 Qualitative orientation evaluation

- 1. Calculate the mean OD value of the Standard D <u>ST D/CAL</u> from the two wells. If you are applying three Standard D <u>ST D/CAL</u> wells and some of these values differ by more than 20% from the mean, do not use it for calculation and calculate the mean of the remaining two values.
- 2. Determine the cut-off value by multiplying the mean OD value of the Standard ST D/CAL by the correction factor. The value of the correction factor is stated in the Quality Control Certificate for the given kit lot.
- 3. Samples with an OD value < 90 % cut-off are negative and samples with an OD value > 110 % cut-off are considered positive.

8.2 Semiquantitative evaluation

Determine Positivity Index for each sample:

1. First determine the cut-off value as in the previous evaluation method (See paragraph 8.1, point 2).

2. Determine the index value for each sample by dividing the OD of the test sample by the cut-off value. Read the appropriate degree of reactivity of the sample (See RESULTS EVALUATION).

RESULTS E	VALUATION
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Positivity index	Evaluation
< 0.90	Negative
0.90 – 1.10	+/-
> 1.10	Positive*

* on the basis of the Positivity Index value it is possible to estimate semiquantitatively the amount of antibodies in the sample

Example: Obtained OD Standard D ST D/CAL	= 1.119; 1.145
Mean OD Standard D ST D/CAL	= 1.132
OD sample	= 0.800
Correction factor Standard D ST D/CAL	= 0.16
Cut-off value	= 1.132 x 0.16 = 0.181
Positivity index value	= 0.800 / 0.181 = 4.42

Note: A rating of +/- means that the sample is in the gray zone. Repeat the test for this result. If the sample is again in the gray zone after retesting, repeat the test with an alternative method or use a sample from a new sample from the same individual.

8.3 Processing of results for Quantitative interpretation

Compute the sample antibody titers in artificial units (AU/mL) as follows:

- 1. Construct the calibration curve by plotting the units of Standards (x-axis) (the concentration of each Standards is mentioned in enclosed Quality control certificate) to absorbance (OD) of Standards (y-axis).
- 2. Find the place where the absorbance of tested samples intersects calibration curve and find the corresponding values (AU/mL) on the axis x. It is possible to use various softwares for the standard curve fitting and for the calculation of the unknowns, e.g. Winliana, KimQ. For better fitting, the polynomic (four-parameter) function is the most convenient.
- Calibration curve and units of standard are related to serum diluted 101x. By other dilution of serum or the cerebrospinal fluid you obtained, using the calibration curve, the number of units in the sample (AU/sample). These units must be converted to the AU/mL according to this formula:

 $\frac{AU/sample * dilution of sample}{101} = AU/ml$

The evaluation in arbitrary units for samples is stated in the Quality Control Certificate.

Note 1: A rating of +/- means that the sample is in the gray zone. Repeat the test for this result. If the sample is again in the gray zone after retesting, repeat the test with an alternative method or use a sample from a new sample from the same individual 1-2 weeks later.

Note 2: Quantification is accurate only in the linear part of the calibration curve. If the measured OD of the sample exceeds the linearity interval (OD 0.200 - 2.000), it is necessary to repeat the testing of the sample at a higher dilution for accurate quantification.

8.4. Intrathecal synthesis of specific IgG antibodies

The determination of IgG concentration against HHV-6 in cerebrospinal fluid (MM) can only be interpreted on the basis of the calculation of intrathecal antibody synthesis.

8.4.1 Calculation of antibody index (AI) (according to Reiber)

8.4.1.1 Calculation of the ratio between the concentrations of total IgG (Qtotal IgG) and total albumin (Qtotal alb) in cerebrospinal fluid and serum. Calculate Qtotal IgG and Qtotal albums according to the formula:

8.4.1.2 Calculation of the QlimIgG cut-off coefficient, ie the amount of IgG in the cerebrospinal fluid that can come from the systemic circulation under a given barrier state (Reiber's hyperbolic function). Calculate QlimIgG according to the formula:

$$Q_{\text{limIgG}} = 0.93 \text{ x } \sqrt{(Q_{\text{total alb}})^2 + 6 \text{ x } 10^{-6}} - 1.7 \text{ x } 10^{-3}$$

8.4.1.3 Calculation of the coefficient of pathogen-specific IgG antibodies Qpath.-spec.IgG, which indicates the ratio between the concentration of specific IgG in cerebrospinal fluid and serum. Calculate Qpath.-spec.IgG according to the formula:

 $Qpath.-spec.IgG = \frac{c \operatorname{spec.IgG MM} (AU/ml)}{c \operatorname{spec.IgG serum} (AU/ml)}$

where c spec.IgG MM / serum is the determined concentration of specific antibodies in AU in cerebrospinal fluid / serum multiplied by sample dilution (see chapter 6)

Example: c spec.lgG MM = 4.512 AU / ml sample diluted 2x in diluent c spec.lgG serum = 60 AU / ml sample diluted 2x in diluent

 $Q_{\text{path.-spec.lgG}} = \frac{38 \times 2}{10 \times 101} = 75.2 \times 10^{-3}$

8.4.1.4 Calculation of antibody index AI

a) If: Qtotal IgG <QlimIgG, calculate AI according to the formula:

 $\frac{Q_{\text{path.-spec.IgG}}}{Q_{\text{path.-spec.IgG}}}$

AI = $Q_{\text{total IgG}}$

b) If: Qtotal IgG> QlimIgG, calculate AI according to the formula:

$$AI = \frac{Q_{\text{path.-spec.IgG}}}{Q_{\text{limIgG}}}$$

The calculation can be performed automatically using E-CALCULATOR software.

8.4.2 Evaluation of results

Al <1.5	intrathecal synthesis of specific antibodies not demonstrated
Al 1.5 - 2.0	suspected intrathecal synthesis of specific antibodies
AI> 2.0	demonstrated intrathecal synthesis of specific antibodies

Note If the absorbance of the test sample is outside the linear range of the calibration curve, the sample must be retested at the adjusted dilution (see Chapter 6). In case of a negative result for a paired sample (negative serum and negative cerebrospinal fluid) do not calculate antibody index AI (intrathecal synthesis of specific antibodies cannot be expected).

9. RESULT INTERPRETATION

Anti-HHV-6 IgG antibodies are anamnestic. They persist for the whole life after the primary infection. The kit can detect cross-reactive antibodies to HHV-7. Significant increase of IgG antibodies can be caused by reactivation of the infection, but could not be always proved due to the recurrent character of the reactivations. For final diagnosis, the results of other laboratory tests and the clinical symptoms of the patient should be taken in consideration.

10. TEST CHARACTERISTICS

The kit is intended for the qualitative, semiquantitative and quantitative detection of anti-HHV-6 IgG antibodies in human serum, plasma and cerebrospinal fluid. Suitable specimens are serum (heparinised), plasma and cerebrospinal fluid samples obtained by standard laboratory techniques.

10.1 Validity of the test

The absorbance value of the Dilution buffer DIL (DIL = reaction background) should be < 0.150.

The OD values of the standards / control sera and the ratio of the OD values of the standards ST E/PC / ST D/CAL should be within the ranges stated in the Quality Control Certificate of the lot.

10.2 Precision of the test

The interassay variability (between tests) and the intraassay variability (within the test) were determined by testing samples with different OD values.

10.2.1 Repeatability (intraassay)

The variation coefficient of intraassay is max. 8 %. It is measured for each particular lot at least on 12 parallels of the same microtiter plate.

Example: (n = number of parallel wells on the same plate)

n	А	±σ	CV rep.
14	2.268	0.094	4.1 %

10.2.2 Reproducibility (interassay)

The variation coefficient of reproducibility is a maximum of 15 %. It is measured for each lot by comparing the wells of the same sample in several consecutive tests.

Example: (n = number of tests of a certain sample)

n	А	$\pm \sigma$	min – max	CVrepro
10	0.674	0.090	0.567 – 0.779	13.4 %
9	0.874	0.061	0.729 – 0.927	7.3 %
7	1.116	0.069	1.048 – 1.221	6.2 %

10.2.3 Recovery test

Measured values of recovery test for every Lot are between 80-120 % of expected value.

10.3 Diagnostic sensitivity and specificity of the test

Diagnostic susceptibility testing was performed by testing 248 HHV-6 positive samples characterized for other commercial kits. The diagnostic sensitivity of the test is 99 %. The specificity of the assay was determined by testing 43 HHV-6 negative samples. The final specificity of the test from the given samples was 95 %.

	Result in ELISA-VIDITEST						
	anti-HHV-6 IgG						
HHV-6 status	Negative	Equivocal	Positive	Sum			
Seronegative	40	1	2	43			
Seropositive	3	0	245	248			

10.4 Analytical sensitivity of the test

The analytical sensitivity of the assay is defined as the mean of the sample without analyte plus three times of the standard deviation and represents the lowest detectable antibody titer. The analytical sensitivity value is determined for each kit lot and is stated in the **Quality Control Certificate** of that kit lot.

10.5 Analytical specificity of the test

The quality of the native Herpes virus subtype 6 (HHV-6) antigen used, which recognizes specific antibodies in patient samples, ensures the high specificity and sensitivity of this assay. However, there is some degree of cross-reactivity of antibodies against other infectious agents, see Chapter 9 (RESULT INTERPRETATION).

10.6 Measuring range

The measuring range is determined by the measuring capability of the spectrophotometer / colorimeter used.

10.7 Linearity

The quantification is accurate only in the linear part of the calibration curve, which represents the interval of OD values 0.200 - 2.000, in which the linear trend line satisfies the condition of reliability R to the second >0.95. If the measured OD of the sample exceeds this linearity interval, the test at the higher dilution must be repeated for accurate quantification.

10.8 Interference

Haemolytic and lipemic samples have no influence on the test results up to concentration of 50 mg/mL of haemoglobin, 5 mg/mL of bilirubin and 50 mg/mL of triglycerides. Nevertheless, such samples can only be tested with reservations.

10.9 Limit of quantification

The limit of quantification is defined as the lowest measurable concentration that can be distinguished from zero with 95% confidence. This value is determined for each batch of the kit and is stated in the **Quality Control Certificate** of the given batch of the kit.

11. WARNINGS

- a. All kit components are for laboratory use only.
- b. The manufacturer guarantees the usability of the kit as a whole.
- c. Wash buffer WASH 10x, Chromogenic substrate TMB, Stop solution STOP, and Dilution buffer DIL are interchangeable between ELISA-VIDITEST kits, unless otherwise noted in the kit instructions.
- d. Work aseptically to avoid microbial contamination of samples and reagents.
- e. When collecting, diluting, and storing reagents, be careful not to cross-contaminate them or contaminate them with enzymatic activity inhibitors.
- f. The Chromogenic Substrate TMB shouldn't come into contact with oxidizing agents and metal surfaces. Because it is sensitive to light, close the bottle immediately after use. The Chromogenic substrate TMB must be clear in use. Do not use the solution if it is blue.
- g. Follow the Instruction manual exactly. Non-reproducible results may arise in particular:
 - * insufficient mixing of reagents and samples before use
 - * inaccurate pipetting and non-compliance with the incubation times given in Chapter 7
 - * poor washing technique and splashing of the edges of the wells with sample or conjugate
 - * using the same tip when pipetting different solutions or swapping caps
- h. Human control sera and standards used in the kit were tested for the absence of HBsAg, HCV and anti-HIV-1,2 antibodies. Treat test specimens, control sera, standards, and used strips as infectious material. Autoclave items that have been in contact with them for 1 hour at 121 °C or disinfect for at least 30 minutes with 3% chloramine solution.
- i. Neutralize liquid waste containing Stop solution (sulfuric acid solution) with 4% sodium bicarbonate solution before disposal.
- j. Disinfect the waste generated during strip washing in a waste container using a suitable disinfectant solution (eg Incidur, Incidin, chloramine, ...) at the concentration recommended by the manufacturer.
- k. Handle Stop solution STOP carefully to avoid splashing on the skin or mucous membranes. If this happens, wash the affected area with plenty of running water.
- I. Do not eat, drink or smoke while working. Do not pipette by mouth, but by suitable pipetting devices. Wear protective gloves and wash your hands thoroughly after work. Be careful not to spill specimens or form an aerosol.
- m. All reagents and packaging material must be disposed of in accordance with applicable legislation.
- n. In case of suspicion of an adverse event in connection with the use of the kit, inform the manufacturer and the competent state authority without delay.

12. SAFETY PRECAUTIONS

Standard D <u>ST D/CAL</u>, Positive control human serum Standard E <u>ST E/PC</u>, negative control human serum Standard A <u>ST A/PC</u>, Standard B <u>ST B</u>, Standard C <u>ST C</u>, Dilution buffer <u>DIL</u>, and Chromogenic Substrate <u>TMB</u> are preserved with ProClin 300 (a mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)). Therefore, the following warnings and safety precautions apply to these solutions:

Warning

H317

- May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- P280 Wear protective gloves/protective clothing/ protective glasses/ face protection.
- P302+P352 OF ON SKIN: Wash with plenty of water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.

The anti-IgG Px conjugate CONJ contains N-methyl-2-pyrrolidone. Therefore, the following warnings and precautions apply to this solution:

Danger	H360D	Warning: May damage the unborn child.
	P202	Do not use until you have read and understood all safety instructions.
	P280	Wear protective gloves/protective clothing/ protective glasses/ face protection.
	P308+P313	If exposed or concerned: Get medical advice/attention.
	P501	Dispose of contents/container in accordance with local regulations.

Further information can be found in the safety data sheet.

13. STORAGE AND EXPIRATION

It is recommended to use the kit within three months after opening.

- a. Store the kit and the kit reagents at +2 °C to +10 °C, in a dry place and protected from the light. Under these conditions, the expiration period of the entire kit is indicated on the central label on the kit package, the expiration date of the individual components is indicated on their package.
- b. Put unused strips back in the package and seal or close tightly in a zippered bag with desiccant.
- c. The kits are transported refrigerated in thermal bags, transport time up to 72 hours has no influence on expiration. If, upon receipt of the kit, you notice serious damage to the packaging of any component of the kit, inform the manufacturer immediately.
- d. Store unused test samples undiluted, aliquoted and frozen at -18 °C to -28 °C. Frequent freezing and thawing is not recommended. If you store samples at + 2 °C to + 10 °C, then test them within one week.
- e. Test sample solutions at the working concentration cannot be stored. Always prepare them fresh.

14. USED SYMBOLS

Symbol	Explanation	
Σ	number of tests	
CE	Conformité Européenne – product meets the requirements of European legislation	
IVD	diagnostics in vitro	
±σ	standard deviation	
CV	coefficient of variation	
OD	optical density	
	manufacturer	
<u>∑</u>	expiration	
LOT	lot of kit	
2°C / 10°C	storage at +2 °C - +10 °C	
°C	Celsius degree	
%	percentage	
n	number of tested samples	
A	value of a certain sample	
ī	read the package leaflet	
REF	catalog number	

15. TEST SCHEME



References:

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