IGFBP-1 Elisa

KAPME01

DIAsource ImmunoAssays S.A. - Rue de l'Industrie, 8 - B-1400 Nivelles - Belgium

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IGFBP-1-ELISA

Enzyme Immunoassay for the Quantitative Determination of Human Insulin-like Growth Factor Binding Protein-1

KAPME01

IN VITRO DIAGNOSTIC USE

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DIAsource ImmunoAssays S.A. - Rue de l'Industrie 8, B-1400 Nivelles, Belgium - Tel: +32 67 88 99 99 - Fax : +32 67 88 99 96

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TECHNICAL FEATURES+APPLICATIONS

- **Quantitative determination of IGFBP-1** in serum and in other body fluids, like e.g. amniotic fluid, milk, urine or saliva etc., and in cell culture media.
- extremely high **analytical sensitivity of 0.02 ng/ml**
- Inter-Assay variation of 7,4% and Intra-Assay variation of 6,8%
- results available in **only 1.75 h incubation time**

INTRODUCTION

The Insulin-like Growth Factors I and – II are free in body fluids and tissues but are bound to specific binding proteins. Until today seven different binding proteins (IGFBP-1 to –7) can be differentiated additionally several IGFBP-related proteins have also been detected. Bioavailability of IGF is regulated by these IGFBPs or better their proteolytic cleavage which reduces affinity to IGF. But the IGFBPs as well as their proteolytic fragments can also exert IGF-independent effects, like influencing cell migration or proliferation.

IGFBP-1 (Placental Protein 12) consists of 234 aminoacids and has a molecular weight of approximately 25kDa. The coding DNA region is located on chromosome 7 [1, 2]. IGFBP-1 is mainly synthesized by foetal and adult liver tissue and decidual endometrium. Intensity of Expression varies enduring menstruation with a maximal expression in the late secretory phase [3, 4]. Further IGFBP-1 expression seems to be regulated by Insulin concentration, with Insulin inhibiting the expression. Insulin regulation results in diurnal fluctuations of up to factor 10 [5] . IGFBP-1 is posttranslational modificated by phosphorylation of serine residues 101, 119 and 169. Phosphorylation has physiological relevance as it increases affinity of IGFBP-1 to IGF. In adult humans phosphorylated IGFBP-1 of the liver is the predominant form in circulation. IGFBP-1 produced by endometrial tissue is significantly less phosphorylated than the liver originated form [6].

In pregnancy IGFBP-1 maternal serum concentration increases significantly with maximal values in the second trimester or 22-23 week of gestation (75.8 ng/ml) [5] and decreases slowly until term. IGFBP-1 concentration are not only increased in maternal but also in foetal serum and with extremely high concentrations in amnion fluid. Here concentration can reach more than the 1000-fold of serum values [7]. Long-term changes of serum IGFBP-1 concentration can also be found in amnion fluid: IGFBP-1 level of the child decreases after birth until it reaches the low steady-state level of puberty and adulthood [8, 9].

Short term IGFBP-1 serum concentration is strongly influenced by nutrition level and therewith by insulin. Decreasing IGFBP-1 levels can be found enduring fasting or in diabetes; IGFBP-1 levels increase in case of intensive exercises [10-12].

Relevance of serum and amnion IGFBP-1 in diagnostics has been investigated in several areas. A diagnostic value was assigned for trisomy 18, intrauterine growth retardation, endometrial tumors and pre-eclampsia [14].

Thoroughly investigated was the diagnostic value in insulin resistance and pre-term rupture of the membrane and specially in the second field a significant diagnostic value could be demonstrated.

- **Energy metabolism**
  Based on the influence of Insulin on IGFBP-1 serum concentrations IGFBP-1 is said to be a possible marker for insulin resistance. Because measurement of IGFBP-1 is much easier facilitated than Glucose – uptake rate this would simplify diagnosis of insulin resistance.
  In a small study Maddux et al were able to demonstrate with 23 non-diabetic patients, that IGFBP-1 serum concentration correlated very well with Glucose-uptake rate, even better than the HOMA index does [13].

- **Pregnancy**
  In pregnancy a significant difference in IGFBP-1 serum concentration of healthy pregnant and diabetic and pre-eclamptic women was found (102,8 vs. 203,71 or 281,09 ng/ml respectively) [15].

  Also the evaluation of IGFBP-1 as marker for membrane rupture showed a high specificity (97%) and sensitivity (75%) of IGFBP-1 in vaginal/cervical secrets. In case of intact membrane IGFBP-1 concentration was < 90ng/ml in the secretion. Enduring 8 hours after spontaneous or induced membrane rupture IGFBP-1 values increased significantly with a median concentration of 1900 ng/ml. In this study IGFBP-1 concentrations von >100ng/ml were set as threshold for detection of amnion fluid and therewith diagnosis of membrane rupture [16]. A positive predictive value of 97% clearly shows that IGFBP-1 is a suitable marker for premature membrane rupture [17] .

INTENDED USE

This enzyme immunoassay kit is suited for measuring IGFBP-1 in human serum or Heparin-plasma or in other body fluids, for example amnion fluid, mother milk, urine or saliva, as for diagnostic and scientific purposes. It is also suited to quantitate IGFBP-1 in cell culture media.

PERFORMANCE CHARACTERISTICS and Validation

The DIAsource **IGFBP-1 Elisa KAPME01** is a so-called Sandwich-Assay. It utilizes two specific and high affinity antibodies for this protein. The IGFBP-1 in the sample binds to the immobilized first antibody on the microtiter plate. In the following step, the biotinylated and Streptavidin-Peroxidase conjugated second specific anti-IGFBP-1-Antibody binds in turn to the immobilised IGFBP-1. Finally, the bound peroxidase catalyses the substrate reaction resulting in a colored product. Therefore colour intensity is highly specific and quantitatively depending on the IGFBP-1-level of the samples.

The calibrators of the ELISA KAPME01 are **native human IGFBP-1** in concentrations of **0, 0.1, 0.5, 1, 2, 4 and 8 ng/ml**.

The **analytical sensitivity** of the ELISA KAPME01 yields **0.02 ng/ml** (equal to **2 pg per well**; 2 SD of zero calibrator in 22 fold determination).

The determination of IGFBP-1 with DIAsource ELISA KAPME01 is over a very wide range authentic in dilution. The **linearity of serum dilutions** is over a wide range **excellent** (table 1).

Table 1: Linearity of Dilution (typical results of 2 different sera)

Dilution:	**sample 1** (re-calculated, ng/ml)	**Dilution:**	**sample 2** (re-calculated, ng/ml)
1:2.5	14.38	1:2.5	16.81
1:5	14.22	1:5	15.51
1:10	13.42	1:10	16.22
1:20	13.81	1:20	14.45
1:40	13.11	1:40	15.12
1 :80	12.52	1 :80	13.43
1 :160	14.65	1 :160	15.95
AV / 1SD / CV%	**13.73** / 0.76 / **5.53**	**AV / 1SD / CV%**	**15.36** / 1.14 / **7.44**

AV = average value, SD = calibrator deviation, CV = coefficient of variation

The **recovery** of native IGFBP-1 in different sample matrices is listed in table 4.

The measured **cross reactivity** for recombinant IGFBP-2 as well as IGFBP-3 was found to be negligible, measured in 500 ng/ml each, **less than 0.0015%** were quantitated.

The **Inter**- and **Intra-Assay** coefficients of variation were found less than **7.4% and 6.8%**. Exemplary determinations are shown in table 2 and table 3.

Table 2: Inter-Assay-Variation

	Average Value (ng/ml)	**Calibrator Deviation (ng/ml)**	**Coefficient of Variation (%)**
Sample 1	2.31	0.12	5.23
Sample 2	18.41	1.36	7.36
Sample 3	32.79	2.22	6.75

Table 3: Intra-Assay-Variation

	Average Value (ng/ml)	**Calibrator Deviation (ng/ml)**	**Coefficient of Variation (%)**
Sample 1	1.45	0.08	5.87
Sample 2	20.64	1.29	6.23
Sample 3	162.99	11.09	6.81

The comparison of IGFBP-1 determinations of 35 sera from healthy adults with the DIAsource ELISA KAPME01 and another commercially available ELISA yields a **very high Correlation** of the measured values: y= 1,15x + 0,12; **r^2= 0,94**

SPECIMEN COLLECTION, PREPARATION, AND STORAGE

Serum samples, EDTA- and Heparin-Plasma samples are suitable. A special external sample preparation prior to assay is not required. Results in Citrate-Plasma are about 15% reduced. Slight hemolysis of the samples doesn't disturb the determination.

Samples should be handled as recommended in general: as fast as possible and chilled as soon as possible. In case there will be a longer period between the sample withdrawal and determination store the undiluted samples frozen -20°C or below in tightly closable plastic tubes. Avoid on principal repeated freeze-thaw cycles of serum/plasma (if required, please subaliquote) although IGFBP-1 levels were found to be unaffected by few cycles(3x) in our experiments.

In most determinations (e.g. Serum- or Plasma samples and no extreme values expected, see table 4 for further details) the dilution of **1:16 with Dilution Buffer is suitable**, the respective covered range would be 0 to 128 ng/ml.

Suggestion for dilution protocol:
Pipette 300 µl **Dilution Buffer** in PE-/PP-Tubes (application of a multi-stepper is recommended in larger series), add **20 µl Serum**- or **Plasma** (dilution 1:16) and mix each tube **immediately**. After mixing use **50 µl** of this solution within 1 hour **per determination** in the assay.

Where required, depending on the expected IGFBP-1-values, the dilution with Dilution Buffer can be higher or lower (at least however 1:2.5). The IGFBP-1 concentrations maybe completely different in body fluids of human origin other than serum or in cell culture supernatants. Examples as well as dilution recommendations are given in table 4.

Table 4: Sample matrices, recovery and dilution recommendation

Samples	Concentration IGFBP-1 (ng/ml)	Recovery of added IGFBP-1	Recommended Dilution as Sample in KAPME01
Amniotic Fluid	8,140.0 16,450.0	n.d.	Individually different. At least 1 : 5000 up to 25000
Mother Milk	5.12 20.2	91% (at 1:10 dil.) n.d.	1:10
Urine	0.07	89,8% (at 1:2.5 dil.)	1:2.5
Saliva	< 0.02 ng/ml	62,5% (at 1:2.5 dil.)	at least 1:2.5
Bronchial Lavage	< 0.02 ng/ml	100% (at 1:2.5 dil.)	1:2.5
Sputum	< 0.02 ng/ml	100% (at 1:20 dil.)	1:20
Serumpool	0.57	105.1% (at 1:16 dil.)	1:16 (general recommendation)
Pregnancy sera	n.d.	n.d.	1:25
Cell Culture Media	individually different	94,5% (at 1:5 dil.)	individually different at least 1:5

n.d.= not determined

REAGENTS PROVIDED

1) **Microtiter plate**, ready for use: **Microtiter plate** with 96 wells, divided up in 12 strips with 8 wells separately breakable, coated with anti-IGFBP-1 antibody and packed in a laminate bag.

2) CAL | N — **Calibrators 0-6,** lyophilized: contain native human IGFBP-1. Calibrators values are between 0 – 8 ng/ml (0, 0.1, 0.5, 1, 2, 4 and 8 ng/ml) IGFBP-1, Calibrators are reconstituted with 500 µl Dilution Buffer each. Use 50 µl per well in the assay.

3) DIL | BUF — **Dilution Buffer**, 125 ml, ready for use, please use for dilution of samples, control and calibrators**.**

4) CONTROL | N — **Control 1 and 2,** 250 µl, lyophilised, contain human Serum and should be reconstituted in 250 µl Dilution Buffer each. The IGFBP-1 target values and the respective ranges are given on the vial label. The dilutions should be according to the dilution of the respected samples. Use 50 µl per well in the assay.

5) Ab | BIOT — **Biotin Conjugate,** 6 ml, contains biotinylated anti-human IGFBP-1 Antibody. Use 50 µl per well in the assay.

6) SAV | HRP — **Streptavidin HRP,** 12 ml, contains HRP (Horseradish-Peroxidase)-labelled Streptavidin. Ready for use. Use 100 µl per well in the assay.

7) WASH | SOLN | CONC — **Washing Buffer**, 50 ml, 20 X concentrated solution. Dilute 1:20 with Aqua dest. The 1:20 diluted Washing Buffer is only limited stable. Please dilute only according to daily requirements.

8) CHROM | TMB — **TMB-Substrate Solution** 12 ml, ready for use, horseradish-peroxidase-(HRP)-substrate, stabilised H_2O_{28}Tetramethylbenzidine. Use 100 µl per well in the assay.

9) STOP | SOLN — **Stopping Solution**, 12 ml, ready for use, 0.2 M sulphuric acid. Use 100 µl per well in the assay.

10) **Sealing tape** for covering of the microtiter plate, 2 x, adhesive.

MATERIALS REQUIRED BUT NOT PROVIDED

Precision pipettes (100 and 200µl) Micropipettes and multichannel pipettes with disposable plastic tips
Distilled or Deionized water for dilution of the Washing Buffer
Vortex-mixer
Device to aspirate the calibrators and the samples from the wells (recommended because of the potential danger of infection by human samples)
Timer (120 min. range)
Reservoirs (disposable)
Plate washer and plate shaker (recommended)
Calibrated Micro plate reader ("ELISA-Reader") with filter for 450 and 620nm (or ≥590 nm)
Foil welding device for laminate bags (recommended)

REAGENT PREPARATION

In conducting the assay, follow strictly the test protocol. Room temperature incubation means: Incubation at 20 - 25°C.

Reagents with different lot numbers should not be mixed. The microtiter plate and all reagents are stable unopened until the expiry date, if stored in the dark at 2° - 8°C (see label).

The Calibrators **0 – 6** and **Control 1 and 2** are reconstituted with the **Dilution Buffer** provided in the Kit. It is recommended to keep the reconstituted reagents at room temperature for 15 minutes and then to mix them thoroughly but gently (no foam should result) with a Vortex mixer.

Use the **Dilution Buffer** for the dilution of **Samples, Calibrators** and **Controls.**

The shelf life of the components after opening is not affected, if used appropriately. Store the unused seal stripes of the microtiter plate together with the desiccant at 2-8°C. Reconstituted Components (**Calibrators 0 – 6** and **Control 1 and 2**) should be stored at -20°C (or below). Freezing extends the expiry at least 3 months. When using the calibrators anew, please thaw them rapidly but gently (no temperature rise over the room temperature and no powerful vortexing), 3 of these freezing-thawing cycles showed no influence on the assay.

The required volume of washing buffer is prepared by 1:20 dilution of the provided 20-fold concentrate with deionised water. The diluted Washing Buffer is stable for max. 4 weeks at 2-8°C.
Before use, all kit components should be brought to room temperature. **Precipitates, possible in buffers, should be dissolved before use through mixing and warming**.

The **Substrate Solution,** stabilised H_2O_2-Tetramethylbenzidine, is photosensitive – store and incubate in the dark.

When performing the assay, the Calibrators **0-6,** Control **1** and **2** and the samples should be pipetted as fast as possible (e.g., 15 minutes). To avoid distortions due to differences in incubation times the Streptavidin HRP as well as the succeeding **Substrate Solution** should be added to the plate in the same order and in the same time interval as the samples. **Stop Solution** should be added to the plate in the same order as the Substrate Solution**.**

STORAGE CONDITIONS

The microtiter plate wells and all undiluted reagents are stable until the expiry date if stored in the dark at 2-8°C.
Store the unused seal strips and microtiter wells together with the desiccant at 2° to 8°C.

The Substrate Solution, stabilised H_2O_2-Tetramethylbenzidine, is photosensitive – store and incubate in the dark.

Reconstituted components should be stored at 2-8°C for up to 1 week. If longer storage time is needed, store the components frozen at -20°C or below. Freezing extends the expiry at least 2 months. Avoid repeated freeze-thaw cycles. In case you plan to perform multiple independent determinations over a longer period with one kit, you should aliquot the components prior to freezing into suitable smaller volumes. This is strongly recommended.

WARNINGS AND PRECAUTIONS

For in-vitro diagnostic use only. For professional use only.
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. DIAsource ImmunoAssays S.A. is not liable for any loss or harm caused by non-observance of the instructions, as far as no law withstands.

Temperature WILL affect the absorbance readings of the assay. However, values for the patient samples will not be affected.

Do not use expired reagents.

Use separate pipette tips for each sample, control and reagent to avoid cross contamination. 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. Mix the contents of the microplate wells thoroughly to ensure good test results. Do not reuse microwells. Do not let wells dry during assay; add reagents immediately after completing the rinsing steps.

Caution: This kit contains material of human and/or animal origin.

Human Serum
Contained in following components: **Control Serum**
The sources of human sera were tested by FDA recommended methods and found non-reactive for Hepatitis-B surface antigen (HBsAg), Hepatitis C virus (HCV), and Human Immunodeficiency Virus 1 and 2 (HIV) antibody. No known test methods can offer total assurance of the absence of infectious agents; therefore all components and patient's specimens should be treated as potentially infectious.

Stop solution contains 0.2 M Sulfuric Acid (H_2SO_4)

R36/38	Irritating to eyes and skin
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28.1	After contact with skin, wash immediately with plenty of water
S36/37	Wear suitable protective clothing and gloves

2-Methyl-4-Isothiazolin-3-one
contained in following components: **Biotin Conjugate, Streptavidin HRP, Dilution Buffer**
< 0.01% 2-Methyl-4-isothiazolin-3-one Solution

R34	Irritating to eyes and skin
R43	Sensibilisation through skin contact possible
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37	Wear suitable protective clothing and gloves
S45	In case of accident or if you feel unwell seek medical advice

5-chloro-2-methyl 2H isothiazol-3-one and 2-methyl-2H-Isothiazol-3-one
contained in following components: **Biotin Conjugate, Streptavidin HRP, Dilution Buffer, Washing Buffer**
< 0.01% (w/w) 5-chloro-2-methyl 2H isothiazol-3-one and 2-methyl-2H-Isothiazol-3-one
Solution

R36/38	Irritating to eyes and skin
R43	Sensibilisation through skin contact possible
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28.1	After contact with skin, wash immediately with plenty of water

General first aid procedures:
Skin contact: Wash affected area thoroughly with water. Discard contaminated cloths and shoes.
Eye contact: In case of contact with eyes, rinse immediately with plenty of water at least 15 minutes.
In order to assure an effectual rinsing spread the eyelids.
Ingestion: If swallowed, wash out mouth thoroughly with water. Immediately see a physician.
Do not eat, drink or smoke in these areas.
Never pipette the materials with the mouth.
Spilled material must be wiped off immediately and should become disinfected. Clean contaminated areas and equipment with a suitable detergent.

ASSAY PROCEDURE

NOTES: All determinations (Calibrators, Control and samples) should be assayed in duplicate. For optimal results, accurate pipetting and adherence to the protocol are recommended.
When performing the assay, the Calibrators, Control Serum and the samples should be pipette as fast as possible (e.g., <15 minutes). To avoid distortions due to differences in incubation times, **Streptavidin HRP** as well as the following **Substrate Solution** should be added to the plate in the same order and in the same time interval as the samples. **Stop Solution** should be added to the plate in the same order as the Substrate Solution.
Before beginning the test procedure bring all reagents to room temperature.

IMPORTANT: Please leave the wells A1/A2 until addition of the **Substrate Solution**, step 8, empty.

1) Please pipette in all needed wells**, <u>except A1/A2</u>, 50 µl Biotine Conjugate.**
2) Pipette in positions B1/2 **50µl** each **Calibrator 0 (0 ng/ml)**,
   pipette in positions C1/2 **50µl** each **Calibrator 1 (0.1 ng/ml)**,
   pipette in positions D1/2 **50µl** each **Calibrator 2 (0.5ng/ml)**,
   pipette in positions E1/2 **50µl** each **Calibrator 3 (1 ng/ml)**,
   pipette in positions F1/2 **50µl** each **Calibrator 4 (2 ng/ml)**,
   pipette in positions G1/2 **50µl** each **Calibrator 5 (4 ng/ml)**,
   pipette in positions H1/2 **50µl** each **Calibrator 6 (8 ng/ml)**,

   To control the correct accomplishment, **50 µl** of the **1:16** (or in respective dilution rate of the sample) in Dilution Buffer diluted **Control 1** and **2** can be pipetted in positions A3/4 and B3/4.

   Pipette **50 µl each** of the **diluted samples** (generally 1:16 diluted in Dilution Buffer**,** please mix the dilutions immediately after sample addition and use within 60 minutes) in the rest of the wells, according to requirements.
3) Cover the wells with the sealing tape and incubate the plate for **1 hour** at **room temperature**
4) After incubation aspirate the contents of the wells and wash the wells **3 times** with **250 µl Washing Buffer**.
5) Following the last washing step, pipette **100 µl Streptavidin HRP** in each well, **<u>except A1/A2</u>**.
6) Cover the wells with the sealing tape and incubate **30 min** at **room temperature**
7) After incubation wash the wells 3 times with **Washing Buffer** as described in step 4)
8) Pipette **100 µl of the TMB-Substrate solution** in each well, **<u>also in A1/A2</u>**.
9) Incubate the plate for **15 Minutes in the dark at** room **temperature**.
10) After incubation pipette **100 µl Stop Solution** in each well **<u>also in A1/A2</u>**.
11) Measure the absorbance **within 30 minutes at 450 nm (Reference filter ≥590 nm, e.g. 620 nm)**.

CALCULATION OF RESULTS

For the evaluation of the assay it is required that the absorbance values of the blank should be below 0.20, and the absorbance of Calibrator 6 should be greater than 1.00.
Samples, which yield higher absorbance values than **Calibrator 6**, are beyond the calibrator curve, for reliable determinations such samples should be retested at a higher dilution.

Establishing the Calibrator Curve

The calibrators provided contain the following concentration of native hIGFBP-1:

Calibrator	**0**	**1**	**2**	**3**	**4**	**5**	**6**
ng/ml	0	0.1	0.5	1	2	4	8

1) Calculate the **mean absorbance** (MA) value for the blank from the duplicated determination (well A1/A2).
2) Subtract the mean absorbance (MA) of the blank from the mean absorbances of all other values.
3) Plot the calibrator concentrations on the x-axis versus the mean value of the absorbance of the calibrators on the y-axis on semi-log paper (lin-log).
4) Recommendation: Calculation of the calibrator curve should be done by using a computer program, because the curve is in general (without respective transformation) not ideally described by linear regression. **Non-linear regression**, **a higher-grade polynomial** or **four parametric logistic (4-PL)** curve fit usually are suitable for the evaluation.
5) The concentration in ng/ml of the samples can be calculated by multiplication with the respective dilution factor.

EXPECTATION VALUES

Concentrations of IGFBP-1 in human sera of 69 healthy adult donors were determined with the **DIAsource IGFBP-1 ELISA KAPME01**. Slight gender dependent differences were found, the concentrations of all samples varied from minimal 0.23 ng/ml to maximal 17.94 ng/ml (see table 5).

Table 5: Expectation values in sera of healthy adults (measured values in ng/ml)

Gender	No. of Samples	Average value	Median	Min. – Max.:
female	33	4.79	4.24	0.23 – 16.07
male	2136	5.22	2.71	0.42 – 17.94
Total	69	5.01	2.77	0.23 – 17.94

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SUMMARY OF THE ASSAY PROCEDURE

Reconstitution / Dilution of Reagents		
Calibrators 0-6	Reconstitution in 500 µl **Dilution Buffer**	
Control 1 and 2	Reconstitution in 250 µl **Dilution Buffer**	
Wash Buffer	dilute in **distilled water** (eg. total volume of 50 ml in a graduated flask and fill up to 1000 ml)	**1:20**
Dilute Sample and **Control 1 and 2** 1:16 with **Dilution Buffer**		
Before beginning the test procedure bring all reagents to room temperature.		

Assay Procedure for Double Determinations:

Pipette	**Reagent**	**Position**
IMPORTANT: Leave the position A1 / A2 empty until addition of Substrate		
50 µl	Biotin Conjugate	**In all wells except A1 / A2**
50 µl	Calibrator **0** (**0 ng/ml**)	B1 and B2
50 µl	Calibrator **1** (**0.1 ng/ml**)	C1 and C2
50 µl	Calibrator **2** (**0.5 ng/ml**)	D1 and D2
50 µl	Calibrator **3** (**1 ng/ml**)	E1 and E2
50 µl	Calibrator **4** (**2 ng/ml**)	F1 and F2
50 µl	Calibrator **5** (**4 ng/ml**)	G1 and G2
50 µl	Calibrator **6** (**8 ng/ml**)	H1 and H2
50 µl	1:16 diluted Control **1**	A3 and A4
50 µl	1:16 diluted Control **2**	B3 and B4
50 µl	1:16 diluted Samples	following wells
Cover the wells with the sealing tape.		

Incubation: 1 h at **RT, without shaking**

3x 250 µl	Aspirate the contents of the wells and wash **3x** with **250 µl Wash Buffer**	each well
100 µl	Streptavidin HRP	each well, except A1/A2

Incubation: 30 min at **RT, without shaking**

3x 250 µl	Aspirate the contents of the wells and wash **3x** with **250 µl Wash Buffer**	each well
100 µl	Substrate	each well

Incubation: 15 min in the dark **RT**

100 µl	Stop Solution	each well
Measure the absorbance within **30 min** at **450 nm** with **≥ 590 nm** as reference wavelength.		

Revision date: 2009-12-09

	Used symbols	**Symboles utilisés**
	Consult instructions for use	Consulter les instructions d'utilisation
	Storage temperature	Température de conservation
	Use by	Utiliser jusque
LOT	Batch code	Numéro de lot
REF	Catalogue number	Référence de catalogue
CONTROL	Control	Contrôle
IVD	In vitro diagnostic medical device	Dispositif médical de diagnostic in vitro
	Manufacturer	Fabricant
	Contains sufficient for <n> tests	Contenu suffisant pour <n> tests
WASH SOLN CONC	Wash solution concentrated	Solution de lavage concentrée
CAL 0	Zero calibrator	Calibrateur zéro
CAL N	Calibrator #	Calibrateur #
CONTROL N	Control #	Contrôle #
Ag 125I	Tracer	Traceur
Ab 125I	Tracer	Traceur
Ag 125I CONC	Tracer concentrated	Traceur concentré
Ab 125I CONC	Tracer concentrated	Traceur concentré
	Tubes	Tubes
INC BUF	Incubation buffer	Tampon d'incubation
ACETONITRILE	Acetonitrile	Acétonitrile
SERUM	Serum	Sérum
DIL SPE	Specimen diluent	Diluant du spécimen
DIL BUF	Dilution buffer	Tampon de dilution
ANTISERUM	Antiserum	Antisérum
IMMUNOADSORBENT	Immunoadsorbent	Immunoadsorbant
DIL CAL	Calibrator diluent	Diluant de calibrateur
REC SOLN	Reconstitution solution	Solution de reconstitution
PEG	Polyethylene glycol	Glycol Polyéthylène
EXTR SOLN	Extraction solution	Solution d'extraction
ELU SOLN	Elution solution	Solution d'elution
GEL	Bond Elut Silica cartridges	Cartouches Bond Elut Silica
PRE SOLN	Pre-treatment solution	Solution de pré-traitement
NEUTR SOLN	Neutralization solution	Solution de neutralisation
TRACEUR BUF	Tracer buffer	Tampon traceur
	Microtiterplate	Microplaque de titration
Ab HRP	HRP Conjugate	HRP Conjugué
Ag HRP	HRP Conjugate	HRP Conjugué
Ab HRP CONC	HRP Conjugate concentrate	HRP Conjugué concentré
Ag HRP CONC	HRP Conjugate concentrate	HRP Conjugué concentré
CONJ BUF	Conjugate buffer	Tampon conjugué
CHROM TMB CONC	Chromogenic TMB concentrate	Chromogène TMB concentré
CHROM TMB	Chromogenic TMB solution	Solution chromogène TMB
SUB BUF	Substrate buffer	Tampon substrat
STOP SOLN	Stop solution	Solution d'arrêt
INC SER	Incubation serum	Sérum d'incubation
BUF	Buffer	Tampon
Ab AP	AP Conjugate	AP Conjugué
SUB PNPP	Substrate PNPP	Tampon PNPP
BIOT CONJ CONC	Biotin conjugate concentrate	Biotine conjugué concentré
AVID HRP CONC	Avidine HRP concentrate	Avidine HRP concentré
ASS BUF	Assay buffer	Tampon de test
Ab BIOT	Biotin conjugate	Biotine conjugué
Ab	Specific Antibody	Anticorps spécifique
SAV HRP CONC	Streptavidin HRP concentrate	Concentré streptavidine HRP
NSB	Non-specific binding	Liant non spécifique
2nd Ab	2nd Antibody	Second anticorps
ACID BUF	Acidification Buffer	Tampon d'acidification

	Gebruikte symbolen	**Gebrauchte Symbolen**
	Raadpleeg de gebruiksaanwijzing	Gebrauchsanweisung beachten
	Bewaartemperatuur	Lagern bei
	Houdbaar tot	Verwendbar bis
LOT	Lotnummer	Chargenbezeichnung
REF	Catalogusnummer	Bestellnummer
CONTROL	Controle	Kontrolle
IVD	Medisch hulpmiddel voor in-vitro diagnostiek	In Vitro Diagnostikum
	Fabrikant	Hersteller
	Inhoud voldoende voor <n> testen	Ausreichend für <n> Ansätze
WASH SOLN CONC	Wasoplossing, geconcentreerd	Waschlösung-Konzentrat
CAL 0	Nulkalibrator	Null kalibrator
CAL N	Kalibrator #	Kalibrator #
CONTROL N	Controle #	Kontrolle #
Ag 125I	Tracer	Tracer
Ab 125I	Tracer	Tracer
Ag 125I CONC	Tracer geconcentreerd	Tracer Konzentrat
Ab 125I CONC	Tracer geconcentreerd	Tracer Konzentrat
	Buisjes	Röhrchen
INC BUF	Incubatiebuffer	Inkubationspuffer
ACETONITRILE	Acetonitrile	Azetonitril
SERUM	Serum	Humanserum
DIL SPE	Specimen diluent	Probenverdünner
DIL BUF	Verdunningsbuffer	Verdünnungspuffer
ANTISERUM	Antiserum	Antiserum
IMMUNOADSORBENT	Immunoadsorbent	Immunadsorbens
DIL CAL	Kalibratorverdunner	Kalibratorverdünnung
REC SOLN	Reconstitutieoplossing	Rekonstitutionslösung
PEG	Polyethyleen glycol	Polyethylenglykol
EXTR SOLN	Extractieoplossing	Extraktionslösung
ELU SOLN	Elutieoplossing	Eluierungslösung
GEL	Bond Elut Silica kolom	Bond Elut Silikakartuschen
PRE SOLN	Pre-behandelingsoplossing	Vorbehandlungslösung
NEUTR SOLN	Neutralisatieoplossing	Neutralisierungslösung
TRACEUR BUF	Tracerbuffer	Tracer-Puffer
	Microtiterplaat	Mikrotiterplatte
Ab HRP	HRP Conjugaat	HRP Konjugat
Ag HRP	HRP Conjugaat	HRP Konjugat
Ab HRP CONC	HRP Conjugaat geconcentreerd	HRP Konjugat Konzentrat
Ag HRP CONC	HRP Conjugaat geconcentreerd	HRP Konjugat Konzentrat
CONJ BUF	Conjugaat buffer	Konjugatpuffer
CHROM TMB CONC	Chromogene TMB geconcentreerd	Chromogenes TMB Konzentrat
CHROM TMB	Chromogene Oplossing TMB	Farblösung TMB
SUB BUF	Substraatbuffer	Substratpuffer
STOP SOLN	Stopoplossing	Stopplösung
INC SER	Incubatieserum	Inkubationsserum
BUF	Buffer	Puffer
Ab AP	AP Conjugaat	AP Konjugat
SUB PNPP	Substraat PNPP	Substrat PNPP
BIOT CONJ CONC	Geconcentreerd Biotine conjugaat	Biotin-Konjugat-Konzentrat
AVID HRP CONC	Geconcentreerd Avidine-HRP conjugaat	Avidin-HRP-Konzentrat
ASS BUF	Assay buffer	Assaypuffer
Ab BIOT	Biotine conjugaat	Biotin-Konjugat
Ab	Specifiek antilichaam	Spezifischer Antikörper
SAV HRP CONC	Streptavidine-HRP concentraat	HRP Streptavidinkonzentrat
NSB	Aspecifieke binding	Unspezifische Bindung
2nd Ab	2de antilichaam	Sekundärer Antikörper
ACID BUF	Verzuringsbuffer	Ansäuerungspuffer

	Simboli utilizzati	**Símbolos utilisados**
	Consultare le istruzioni per l'uso	Consultar las instrucciones de uso
	Limitazioni di temperatura	Limitación de temperatura
	Utilizzare entro	Fecha de caducidad
LOT	Numero di lotto	Codigo de lote
REF	Numero di catalogo	Número de catálogo
CONTROL	Controllo	Control
IVD	Dispositivo medico-diagnostico in vitro	Producto sanitario para diagnóstico in vitro
	Fabbricante	Fabricante
	Contenuto sufficiente per <n> saggi	Contenido suficiente para <n> ensayos
WASH SOLN CONC	Tampone di lavaggio concentrato	Solución de lavado concentrada
CAL 0	Calibratore zero	Calibrador cero
CAL N	Standard #	Calibrador #
CONTROL N	Controllo #	Control #
Ag 125I	Marcato	Trazador
Ab 125I	Marcato	Trazador
Ag 125I CONC	Marcato concentrato	Trazador concentrada
Ab 125I CONC	Marcato concentrato	Trazador concentrada
	Provette	Tubos
INC BUF	Tampone incubazione	Tampón de incubación
ACETONITRILE	Acetonitrile	Acetonitrilo
SERUM	Siero	Suero
DIL SPE	Diluente campione	Diluyente de Muestra
DIL BUF	Tampone diluizione	Tampón de dilución
ANTISERUM	Antisiero	Antisuero
IMMUNOADSORBENT	Immunoassorbente	Inmunoadsorbente
DIL CAL	Diluente calibratore	Diluyente de calibrador
REC SOLN	Soluzione di ricostituzione	Solución de Reconstitución
PEG	Polietilenglicole	Glicol Polietileno
EXTR SOLN	Soluzione di estrazione	Solución de extracción
ELU SOLN	Soluzione di eluizione	Solución de elución
GEL	Cartucce di silice bond elut	Cartuchos Bond Elut Silica
PRE SOLN	Soluzione di pretrattamento	Solución de Pre-tratamiento
NEUTR SOLN	Soluzione di neutralizzazione	Solución de Neutralización
TRACEUR BUF	Tracer Buffer	Tampón de trazador
	Piastra di microtitolazione	Placa de microvaloración
Ab HRP	HRP Coniugato	HRP Conjugado
Ag HRP	HRP Coniugato	HRP Conjugado
Ab HRP CONC	HRP Coniugato concentrato	HRP Conjugado concentrada
Ag HRP CONC	HRP Coniugato concentrato	HRP Conjugado concentrada
CONJ BUF	Buffer coniugato	Tampón de Conjugado
CHROM TMB CONC	Cromogena TMB concentrato	Cromógena TMB concentrada
CHROM TMB	Soluzione cromogena TMB	Solución Cromógena TMB
SUB BUF	Tampone substrato	Tampón de sustrato
STOP SOLN	Soluzione di arresto	Solución de Parada
INC SER	Incubazione con siero	Suero de Incubación
BUF	Buffer	Tampón
Ab AP	AP Coniugato	AP Conjugado
SUB PNPP	Substrato PNPP	Sustrato PNPP
BIOT CONJ CONC	Concentrato coniugato con biotina	Concentrado de conjugado de biotina
AVID HRP CONC	Concentrato avidina HRP	Concentrado avidina-HRP
ASS BUF	Soluzione tampone per test	Tampón de ensayo
Ab BIOT	Coniugato con biotina	Conjugado de biotina
Ab	Anticorpo Specifico	Anticuerpo específico
SAV HRP CONC	Streptavidina-HRP concentrata	Estreptavidina-HRP Concentrado
NSB	Legame non-specifico	Unión no específica
2nd Ab	2° Anticorpo	Segundo anticuerpo
ACID BUF	Tampone Acidificante	Tampón de Acidificación

	Símbolos utilizados	**Använda symboler**
	Consulte instruções de utilização	Läs instruktionerna före användning
	Temperatura de conservação	Förvaringstemperatur
	Utilizar antes de	Används av
LOT	Código de lote	Lotnummer
REF	Número de catálogo	Katalognummer
CONTROL	Controlo	Kontroll
IVD	Dispositivo médico de diagnóstico in vitro	In vitro diagnostiskt kit
	Fabricante	Tillverkare
	Conteúdo suficiente para <n> testes	Innehållet räcker till <n> prover
WASH SOLN CONC	Solução de lavagem concentrada	Tvättlösning, koncentrerad
CAL 0	Calibrador zero	Nollkalibrerare
CAL N	Calibrador #	Kalibrator #
CONTROL N	Controlo #	Kontroll #
Ag 125I	Marcador	Radioisotop, antigen
Ab 125I	Marcador	Radioisotop, antikropp
Ag 125I CONC	Marcador concentrada	Radioisotop, antigen koncentrerad
Ab 125I CONC	Marcador concentrada	Radioisotop, antikropp koncentrerad
	Tubos	Rör
INC BUF	Tampão de incubação	Inkuberingsbuffert
ACETONITRILE	Acetonitrilo	Acetonitril
SERUM	Soro	Serum
DIL SPE	Diluidor de espécimes	Spädningsbuffert för prover
DIL BUF	Tampão de diluição	Spädningsbuffert
ANTISERUM	Anti-soro	Antiserum
IMMUNOADSORBENT	Imunoadsorvente	Immunoadsorberare
DIL CAL	Diluente do calibrador	Kalibratordiluent
REC SOLN	Solução de Reconstituição	Rekonstitutionslösning
PEG	Polietileno-glicol	Polyetylenglykol
EXTR SOLN	Solução de Extracção	Extraktionslösning
ELU SOLN	Solução de Eluição	Elueringslösning
GEL	Cartuchos de silica Bond Elut	Silikonpatroner för elueringsbindning
PRE SOLN	Solução de pré-tratamento	Förbehandlingslösning
NEUTR SOLN	Solução de neutralização	Neutraliseringslösning
TRACEUR BUF	Tampão Marcador	Tracerbuffert
	Placa de micro titulação	Microtiterplatta
Ab HRP	HRP Conjugação	HRP-konjugat
Ag HRP	HRP Conjugação	HRP-konjugat
Ab HRP CONC	HRP Conjugação concentrada	HRP-konjugat-koncentrat
Ag HRP CONC	HRP Conjugação concentrada	HRP-konjugat-koncentrat
CONJ BUF	Conjugue o tampão	Konjugatbuffert
CHROM TMB CONC	Cromogénica TMB concentrada	Kromogeniskt TMB-koncentrat
CHROM TMB	Solução Cromogénica TMB	Kromogenisk TMB-lösning
SUB BUF	Tampão de substrato	Substratbuffert
STOP SOLN	Solução de Paragem	Stoplösning
INC SER	Soro de incubação	Inkubationsserum
BUF	Tampão	Buffert
Ab AP	AP Conjugação	AP-konjugat
SUB PNPP	Substrato PNPP	Substrat-PNPP
BIOT CONJ CONC	Concentrado conjugado de biotina	Biotinkonjugat koncentrat
AVID HRP CONC	Concentrado HRP de avidina	Avidin HRP-koncentrat
ASS BUF	Tampão de ensaio	Provbuffert
Ab BIOT	Conjugado de biotina	Biotinkonjugat
Ab	Anticorpo específico	-
SAV HRP CONC	Estreptavidina HRP concentrado	-
NSB	Ligações não especificas	-
2nd Ab	Anticorpo secundário	-
ACID BUF	Tampão de acidificação	-

	Επεξήγηση συμβόλων	**Anvendte symboler**
	Συμβουλευτείτε τις οδηγίες χρήσης	Læs brugsvejledningen
	Θερμοκρασία αποθήκευσης	Opbevaringstemperatur
	Ημερομηνία λήξης	Anvend inden
LOT	Αριθμός παρτίδας	Batchkode
REF	Αριθμός καταλόγου	Katalognummer
CONTROL	Πρότυπο ελέγχου	Kontrol
IVD	In Vitro Διαγνωστικό Ιατροτεχνολιγικό προιόν	Medicinsk udstyr til in vitro-diagnosticering
	Κατασκευαστής	Fabrikant
	Περιεχόμενο επαρκές για «ν» εξετάσεις	Indeholder nok til <n> test
WASH SOLN CONC	Συμπυκνωμένο διάλυμα έκπλυσης	Koncentreret vaskeopløsning
CAL 0	Μηδενικός βαθμονομητής	Nul-kalibrator
CAL N	Βαθμονομητής #	Kalibrator nr.
CONTROL N	Ορός ελέγχου #	Kontrol nr.
Ag 125I	Ιχνηθέτης	Markør
Ab 125I	Ιχνηθέτης	Markør
Ag 125I CONC	Χρωμογόνος Ιχνηθέτης	Koncentreret markør
Ab 125I CONC	Χρωμογόνος Ιχνηθέτης	Koncentreret markør
	Σωληνάρια	Tuber
INC BUF	Ρυθμιστικό διάλυμα επώασης	Inkubationsbuffer
ACETONITRILE	Ακετονιτρίλιο	Acetonitril
SERUM	Ορός	Serum
DIL SPE	Διάλυμα αραίωσης δειγμάτων	Prøvediluent
DIL BUF	Ρυθμιστικό διάλυμα αραίωσης	Fortyndingsbuffer
ANTISERUM	Αντιορός	Antiserum
IMMUNOADSORBENT	Ανοσοπροσροφητικό	Immonoadsorbent
DIL CAL	Αραιωτικό βαθμονομητών	Kalibratordiluent
REC SOLN	Διάλυμα ανασύστασης	Rekonstitueringsopløsning
PEG	Πολυαιθυλενογλυκόλη	Polyetylenglykol
EXTR SOLN	Διάλυμα εκχύλισης	Ekstraktionsopløsning
ELU SOLN	Διάλυμα έκλουσης	Elueringsopløsning
GEL	Φύσιγγες πυριτίου Bond Elut	Patroner med bindingselueringssilica
PRE SOLN	Διάλυμα προεπεξεργασίας	Forbehandlingsopløsning
NEUTR SOLN	Διάλυμα εξουδετέρωσης	Neutraliseringsopløsning
TRACEUR BUF	Ρυθμιστικό διάλυμα	Markørbuffer
	Πλάκα μικροτιτλοδότησης	Mikrotiterplade
Ab HRP	HRP Σύζευγμα	HRP-konjugat
Ag HRP	HRP Σύζευγμα	HRP-konjugat
Ab HRP CONC	Χρωμογόνος HRP Σύζευγμα	HRP-konjugat-koncentreret
Ag HRP CONC	Χρωμογόνος HRP Σύζευγμα	HRP-konjugat-koncentreret
CONJ BUF	Ρυθμιστικό διάλυμα συζεύγματος	Konjugatbuffer
CHROM TMB CONC	Χρωμογόνος TMB	Kromogen TMB-koncentreret
CHROM TMB	Διάλυμα χρωμογόνου TMB	Kromogen TMB-opløsning
SUB BUF	Ρυθμιστικό διάλυμα υποστρώματος	Substratbuffer
STOP SOLN	Ανασχετικό αντιδραστήριο	Stopopløsning
INC SER	Ορός επώασης	Inkubationsserum
BUF	Ρυθμιστικό διάλυμα	Buffer
Ab AP	AP Σύζευγμα	AP-konjugat
SUB PNPP	PNPP υποστρώματος	Substrat PNPP
BIOT CONJ CONC	Συμπυκνωμένο αντιδραστήριο συζευγμένο με βιοτίνη	Biotin konjugat koncentrat
AVID HRP CONC	Συμπυκνωμένο διάλυμα αβιδίνης-HRP	Avidin HRP koncentrat
ASS BUF	Ρυθμιστικό διάλυμα προσδιορισμού	Prøvebuffer
Ab BIOT	αντιδραστήριο συζευγμένο με βιοτίνη	Biotin konjugat
Ab	Ειδικό Αντίσωμα	-
SAV HRP CONC	Συμπυκνωμένη στρεπταβιδίνη συνεξευγμένη με HRP	-
NSB	μη-ειδική δέσμευση	-
2nd Ab	2ο Αντίσωμα	-
ACID BUF	Ρυθμιστικό Διάλυμα όξινο	-

	Stosowane symbole	**Használt szimbólumok**
	Przed zastosowaniem zapoznać się z instrukcją	Olvassa el a használati útmutatót
	Temperatura przechowywania	Tárolási hőmérséklet
	Zużyć przed	Lejárati idő
LOT	Kod serii	Gyártási kód
REF	Numer katalogowy	Katalógus szám
CONTROL	Kontrola	Kontrol
IVD	Urządzenie medyczne do diagnostyki in vitro	In vitro diagnosztikai eszköz
	Producent	Gyártó
	Zawartość wystarczająca do <n> testów	Tartalma <n> teszt elvégzésére elegendő
WASH SOLN CONC	Roztwór płuczący stężony	Mosó folyadék koncentrátum
CAL 0	Kalibrator zerowy	Zero kalibrátor
CAL N	Kalibrator nr	Kalibrátor #
CONTROL N	Kontrola nr	Kontrol #
Ag 125I	Znacznik izotopowy	Nyomjelző izotóp
Ab 125I	Znacznik izotopowy	Nyomjelző izotóp
Ag 125I CONC	Znacznik izotopowy stężony	Nyomjelző izotóp koncentrátum
Ab 125I CONC	Znacznik izotopowy stężony	Nyomjelző izotóp koncentrátum
	Probówki	Csövek
INC BUF	Wymagana inkubacja buforu	Inkubáló puffer
ACETONITRILE	Acetonitryl	Acetonitril
SERUM	Surowica	Szérum
DIL SPE	Rozcieńczalnik próbki	Mintahigító
DIL BUF	Bufor do rozcieńczania	Higító puffer
ANTISERUM	Antysurowica	Antiszérum
IMMUNOADSORBENT	Immunoadsorbent	Immunadszorbens
DIL CAL	Rozcieńczalnik kalibratora	Kalibrátor higító
REC SOLN	Roztwór do rozcieńczania	Mintaelőkészítő oldat
PEG	Glikol poli(oksy)etylenowy	Polietilén glikol
EXTR SOLN	Roztwór ekstrakcyjny	Extrakciós oldat
ELU SOLN	Roztwór elucyjny	Eluáló oldat
GEL	Kolumny krzemionkowe Bond Elut	Bond Elut Silica szilikagél patronok
PRE SOLN	Roztwór do przygotowania wstępnego	Előkezelő oldat
NEUTR SOLN	Roztwór neutralizujący	Semlegesítő oldat
TRACEUR BUF	Bufor znacznika	Nyomjelző izotóp higító puffer
	mikropłytka	Mikrotiter lemez
Ab HRP	Koniugat peroksydazy chrzanowej	HRP konjugátum
Ag HRP	Koniugat peroksydazy chrzanowej	HRP konjugátum
Ab HRP CONC	Koncentrat koniugatu peroksydazy chrzanowej	HRP konjugátum koncentrátum
Ag HRP CONC	Koncentrat koniugatu peroksydazy chrzanowej	HRP konjugátum koncentrátum
CONJ BUF	Bufor do koniugacji	Konjugátum puffer
CHROM TMB CONC	Koncentrat chromogenu TMB (czterometylobenzydyny)	Kromogén TMB koncentrátum
CHROM TMB	Roztwór chromogenu TMB (czterometylobenzydyny)	Kromogén TMB oldat
SUB BUF	Bufor substratu	Szubsztrát puffer
STOP SOLN	Roztwór zatrzymujący reakcję	Stop oldat
INC SER	Wymagana inkubacja surowicy	Inkubációs szérum
BUF	Bufor	Puffer
Ab AP	Koniugat AP (fosfatazy alkalicznej)	AP konjugátum
SUB PNPP	p-nitrofenylofosforan substratowy	Szubsztrát PNPP
BIOT CONJ CONC	Koncentrat koniugatu biotyny	Biotin konjugátum koncentrátum
AVID HRP CONC	Koncentrat peroksydazy chrzanowej z awidyną	Avidin HRP koncentrátum
ASS BUF	Bufor do oznaczania	Vizsgálati puffer
Ab BIOT	Koniugatu biotyny	Biotin konjugátum
Ab	Przeciwciało swoiste	Specifikus ellenanyag
SAV HRP CONC	Koncentrat streptawidyny HRP	Sztreptavidin HRP koncentrátum
NSB	Wiązanie nieswoiste	Nem-specifikus kötődés
2nd Ab	Drugie przeciwciało	Másodlagos ellenanyag
ACID BUF	Bufor zakwaszający	Savas puffer

	Използвани символи
	Вижте инструкцията за работа
	Температура на съхранение
	Използвайте с
LOT	Партиден код
REF	Каталожен номер
CONTROL	Контрол
IVD	Ин витро диагностично медицинско изделие
	Производител
	Съдържание достатъчно за <n> теста
WASH SOLN CONC	Концентриран измиващ разтвор
CAL 0	Нулев калибратор
CAL N	Калибратор #
CONTROL N	Контрол #
Ag 125I	Трейсър
Ab 125I	Трейсър
Ag 125I CONC	Концентриран маркер
Ab 125I CONC	Концентриран маркер
	Епруветки
INC BUF	Инкубационен буфер
ACETONITRILE	Ацетонитрил
SERUM	Серум
DIL SPE	Разредител за пробите
DIL BUF	Буфер за разреждане
ANTISERUM	Антисерум
IMMUNOADSORBENT	Имуноабсорбент
DIL CAL	Разредител за калибратора
REC SOLN	Пресъздаващ разтвор
PEG	Полиетилен гликол
EXTR SOLN	Екстрактов разтвор
ELU SOLN	Разтвор за елюиране
GEL	Силикагелни пълнители
PRE SOLN	Пред-лечебен разтвор
NEUTR SOLN	Неутрализиращ ратвор
TRACEUR BUF	Маркерен буфер
	Микротитърна пластина
Ab HRP	HRP конюгат / Конюгат на хрянова пероксидаза
Ag HRP	HRP конюгат / Конюгат на хрянова пероксидаза
Ab HRP CONC	HRP конюгиран концентрат
Ag HRP CONC	HRP конюгиран концентрат
CONJ BUF	Буфер за конюгата
CHROM TMB CONC	Хромогенен TMB концентрат
CHROM TMB	Хромогенен TMB разтвор
SUB BUF	Субстратен буфер
STOP SOLN	Стоп разтвор
INC SER	Инкубационен серум
BUF	Буфер
Ab AP	AP конюгат / конюгат на алкална фосфатаза
SUB PNPP	Субстрат PNPP / пара нитрофенил фосфат
BIOT CONJ CONC	Биотин конюгиран концентрат
AVID HRP CONC	Авидин HRP концентрат
ASS BUF	Буфер за пробите
Ab BIOT	Биотин конюгат
Ab	специфично антитяло
SAV HRP CONC	стрептавидин HRP концентрат
NSB	не специфично свързване
2nd Ab	второ антитяло
ACID BUF	киселинизиращ буфер