



CE

Resistin Elisa

KAPME50

LOT : 100225/1



Resistin-ELISA

Enzyme Immunoassay for the Quantitative Determination of human Resistin

KAPME50

IN VITRO DIAGNOSTIC USE

en

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DIASOURCE RESISTIN ELISA

- is suited for Resistin determination in **Serum** and **Plasma** samples
- is extremely **sensitive** (**12 pg/ml** \equiv **1.2 pg per well**) and, thus allows measurements in cell culture media too and in specimens others than serum e.g. in Cerebrospinal fluid, Amnion fluid, Saliva, Urine, Breast milk
- is **fast**: incubation time a total of 4 hours
- Single Calibrators with **20, 100, 300, 600, 1000 ng/ml** human Resistin are provided in the Kit
- Control Serum is of human serum
- is calibrated with **recombinant Resistin**
- Microtiter plates are separately breakapart, tests can be adapted to individual requirements

INTENDED USE

Measurement of human Resistin in human Serum and Plasma Sample

CLINICAL IMPLICATION

- Resistin is relevant e.g. in research of:
- Adiposity
- Insulin Resistance, Diabetes
- Arteriosclerosis
- Inflammation

INTRODUCTION

Resistin, a cysteine-rich protein of 11.3 kDa (1), was firstly found in mice (2) and constitutes together with RELM α , RELM β and RELM γ the protein family of resistin-like molecules (RELM).

In humans, resistin and RELM β (1) but no other proteins of the RELM family were found. The human form of resistin shows a homology of 53% to the murine protein (4). It has 11 cysteine-residues, is synthesized as a propeptide of 108 amino acids and secreted as a dimer, build by a disulfide bridge of cysteine residues (22). Beside this intermolecular disulfide bridge, 5 additional intramolecular ones exist (5,6).

Appearance of multi- and oligomer formation was proved by size exclusion chromatography. Thereby it was shown, that oligomer formation is SDS-insensitive but can be inhibited by β -mercaptoethanol and is therefore likely to be caused by disulfide bridges (1). Further on, the resistin structure seems to be dependent on its concentration, as circular dichroism analysis shows a concentration dependent shift of α -helical to β -sheet structure (1).

Resistin expression was demonstrated in white adipose tissue (10), pituitary (11) and pancreatic islets (12) of mice as well as in brown adipose tissue of rats. In humans, resistin expression in adipocytes can be detected but only at a very low level. But in vitro, resistin expression of non-adipocytes in fatty tissue was shown (13). Human resistin gene is also expressed in pancreatic islets (12), pre-adipocytes (14) macrophages (15) and bone marrow (39). So, resistin is of relevance for inflammation processes as well as for lipid metabolism.

Most investigation refers to the mouse model. Here, the existence of trimeric and hexameric resistin in serum was demonstrated (7). In comparison to adiponectin biology it is highly probable that different resistin oligomers have different biologic function (8, 9).

In mice, a correlation between adiposity, insulin resistance and resistin expression was found empirically. In humans, respective study results are not clear – several studies show an association of resistin serum concentration and adiposity or insulin resistance (17, 25-31). But others failed in confirming these results (14, 16-24). Therefore, there is requirement for valid and reproducible determination of resistin serum concentration.

Relevance of resistin in other physiologic processes than energy metabolism was investigated by several different approaches. Experiments with endothelial cells gave interesting results. Here, resistin was shown to enhance expression of VCAM-1 and ICAM-1 (33, 34). By this way, resistin is potentially able to influence endothelial inflammation (35, 36) and, thereby atherosclerosis. These results were confirmed by experiments in mice, where endothelin-1 was shown to regulate resistin secretion (37, 38).

In recent research human resistin was shown to increase pre-adipocyte proliferation and lipolysis of mature adipocytes (38). By the way of modulating MAPK-signalling pathways resistin exerts crucial influence on energy metabolism.

Present research demonstrates, that Resistin exerts influence on a broad variety of physiological processes, however a clear and defined biological role of resistin remains still unexisting.

This ELISA-kit enables the user to determine the exact concentration of Resistin in human serum/plasma as well as other body fluids and thereby assists investigation of Resistin biology.

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-human Resistin antibody.
- 2) **Calibrators 1-5**, lyophilized: contain recombinant Resistin. Calibrator values are between **0.02 - 1 ng/ml** (20, 100, 300, 600 und 1000 pg/ml) Resistin and have to be reconstituted with **750 µl (each) Calibrator Diluent**. Attention: Please use only Calibrator Diluent for this dilution, because only this assures, that the Calibrators and the respective samples subsequently will incubate under identical conditions in the same special buffer!
- 3) **Calibrator Diluent**, 120 ml, ready for use, please use for the reconstitution of the Calibrators 1 – 5 and for the sample and Control 1 dilution.
- 4) **Control 1**, lyophilised: Contains human Serum and has to be reconstituted with **100 µl Dilution buffer**. The Resistin target value concentration and the respective range is given on the vial label. The **dilution** of the **Control 1** in **Calibrator Diluent** should be according done to the dilution of the respected samples.
- 5) **Biotin Conjugate**, 120 µl, 100-fold concentrated solution, contains biotinylated anti-Resistin antibody, please dilute before use 1:100 in Dilution buffer: e.g., add 100 µl Biotin Conjugate to 10 ml Dilution Buffer, mix and use 100 µl/well of this dilution in the assay.
- 6) **HRP Conjugate**, 120 µl, 100-fold concentrated solution, contains HRP (Horseradish peroxidase)-labelled Streptavidin, please dilute before use **1:100 in Dilution Buffer**: e.g. add 100 µl HRP conjugate to 10 ml Dilution buffer, mix and use 100 µl/well of this dilution in the assay.
- 7) **Dilution buffer**, 25 ml, ready for use, please use this for the **reconstitution** of **Control 1** and for the **dilution** of **Biotin Conjugate** and **HRP Conjugate**.
- 8) **Washing Buffer**, 50 ml, 20-fold concentrated: Washing Buffer has to be diluted 1:20 with distilled or demineralised water before use. (e.g. add the complete contents of the flask (50 ml) into a graduated flask and fill with A.dest. to 1000 ml). Attention: After dilution, the Washing Buffer is only limited stable, please dilute only according to requirements.
- 9) **Chromogenic Substrate**, 12 ml, ready for use, stabilised H₂O₂-Tetramethylbenzidine.
- 10) **Stopping Solution**, 12 ml, ready for use, 0,2 M sulphuric acid, **Caution!**
- 11) **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 (WP)
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)

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.

Before use, all kit components should be brought **to room temperature at 20 - 25°C**. Precipitates in buffers should be dissolved before use by thorough mixing and warming. **Temperature will affect the absorbance** readings of the assay. However, values for the patient samples will not be affected.

Do not mix reagents of different lots. Do not use expired reagents.

The microplate contains snap-off strips. Unused wells must be stored at 2 - 8°C in the sealed foil pouch and used in the frame provided.

Caution: This kit contains material of human and/or animal origin. Source human serum for the Control Serum provided in this kit was 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) antibodies. 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.

2-Methyl-4-Isothiazolin-3-one

Following components contain < 0.01% **2-Methyl-4-Isothiazolin-3-one** solution as preservative **Calibrator 1-5, Biotin Conjugate, Calibrator Diluent**

< 0.01% 2-Methyl-4-isothiazolin-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

5-chloro-2-methyl 2H isothiazol-3-one and 2-methyl-2H-Isothiazol-3-one

Following components contain < 0.01%(w/w) 5-chloro-2-methyl 2H isothiazol-3-one and 2-methyl-2H-isothiazol-3-one as preservative:

Calibrator 1-5, Biotin Conjugate, Calibrator Diluent, Washing Buffer

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 S28.1

After contact with skin, wash immediately with plenty of water

Stop solution contains 0.2 M Sulfuric Acid (H₂SO₄)

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.

Pipetting of samples and reagents must be done as quickly as possible and in the same sequence for each step. 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.

TMB-Substrate (S) contains 3,3',5,5' Tetramethylbenzidine. Store and incubate in the dark.

R20/21/R22 Harmful by inhalation, in contact with skin and if swallowed

R36/37/38 Irritating to eyes, respiratory system 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

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.

METHOD

The enzyme immunoassay for Resistin is a so-called Sandwich-Assay. It utilizes a specific high affinity polyclonal rabbit antiserum coated on the wells of a microtiter plate. The Resistin in the samples binds quantitatively to the immobilized antiserum. In the following step, the biotinylated antiserum binds in turn to Resistin. After washing, Streptavidin-Peroxidase-Enzyme conjugate will be added, which will bind highly specific to the biotin of the antiserum and will catalyse in the closing substrate reaction the turn of the colour, quantitatively depending on the Resistin level of the samples.

SPECIMEN

Serum as well plasma samples are suitable (significant deviation of Resistin levels in corresponding serum-, Heparin-, EDTA-, Citrate-plasma-Samples were not found). Haemolytic samples appear to show falsely high Resistin levels, using such samples should be checked out critically. Common cell culture medium, saliva, breast milk and urine were found to be suitable specimens too.

By means of the special sample buffer an external sample preparation prior to the assay is not required (see below).

The blood sample for serum preparation should be gained according to calibratorized venipuncture procedure. The samples should be stored without anticoagulation reagents. Haemolytic reactions have to be avoided. The blood has to be allowed to clot and after complete clotting, serum is separated by centrifugation.

Storage of the samples

Storage at RT max. 2 days

Storage at -20°C max. 2 years

in tightly closable plastic tubes.

More than 3 freeze/thaw cycles are not possible.

Sample Preparation

Samples have to be diluted in Calibrator Diluent. The excellent linearity of this test system allows sample dilution of 1:5 to 1:400.

In most determinations (serum or plasma samples, and no extreme values expected) a dilution **from 1:10 to 1:50 with Calibrator Diluent** should be suitable. According to expected Resistin levels the dilution with Calibrator Diluent can be higher or lower. Because the Calibrator Diluent has a special formulation for the correct determination of Resistin, the dilution should be **at least 1:5!** Resistin concentrations may be completely different in body fluids of human origin other than serum or cell culture supernatants.

For clinical purposes we recommend a standard dilution of 1:21.

Suggestion for dilution protocol:

Pipette 300 µl Calibrator Diluent in PE-/PP-Tubes (application of a multi-stepper is recommended in larger series), add 15 µl Serum- or Plasma (dilution 1:21). After mixing use 2 x 100 µl of this dilution in the assay.

TECHNICAL RECOMMENDATIONS

The assay has to be conducted strictly according the test protocol herein.

Reagents with different lot numbers cannot be mixed. The microtiterplate and reagents are stable until the indicated expiry if stored unopened and protected from sunlight at 2 – 8°C.

Bring all reagents to room temperature (20 - 25°C) before use. Possible precipitations in the buffers have to be resolved before usage by mixing and / or warming.

Incubation at room temperature means: 20-25°C

Calibrators and Control

For the reconstitution of the lyophilised **Calibrators 1 – 5, Calibrator Diluent** has to be used.

The lyophilised **Control** must be reconstituted with the **Dilution Buffer**. The dilution of the **Control in Calibrator Diluent** should be done according the dilution of the respected samples.

It is recommended to keep reconstituted reagents at room temperature for 15 minutes and then to mix them thoroughly but gently (no foam!) with a Vortex mixer.

The reconstituted calibrator and controls can be stored for 2 months at -20°C. Repeated freeze/thaw cycles have to be avoided.

Biotin and HRP Conjugate

Use the Dilution Buffer for the dilution of the Biotin Conjugate and HRP Conjugate 100fold concentrates. The diluted solutions are only limited stable at 2-8°C.

Washing Buffer

The required volume of washing buffer is prepared by 1:20 dilution of the provided 20fold concentrate with deionised water. The diluted Washing Buffer is stable for 4 weeks at 2-8°C. It has to be at room temperature for usage!

Microtiterplate

Store the once unused microtiter strips and wells together with the desiccant in the tightly closed clip lock bag at 2-8°C use in the frame provided. The labelled expiry is not influenced in case of proper storage.

Chromogenic Substrate

The Chromogenic Substrate, stabilised H₂O₂-Tetramethylbenzidine, is photosensitive – store and incubate in the dark.

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 and the samples should be pipette as fast as possible (e.g., <15 minutes). To avoid differences in incubation times, **Biotin Conjugate** and the **HRP Conjugate** as well as the following **Chromogenic Substrate** 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.

- 1) Add **100 µl Calibrator Diluent** in wells A1/A2 (blank) and
- 2) Pipette in positions B1/2 **100 µl of the Calibrator 1** (0.02 ng/ml)
 Pipette in positions C1/2 **100 µl of the Calibrator 2** (0.1 ng/ml),
 Pipette in positions D1/2 **100 µl of the Calibrator 3** (0.3 ng/ml),
 Pipette in positions E1/2 **100 µl of the Calibrator 4** (0.6 ng/ml),
 Pipette in positions F1/2 **100 µl of the Calibrator 5** (1 ng/ml).

To control the correct accomplishment 100 µl of the 1:21 (or in respective dilution rate of the sample) **in Calibrator Diluent** diluted **Control 1** can be pipetted in positions G1/2.

Pipette **100 µl** each of the **diluted sample** (e.g. dilute 1:21 with Calibrator Diluent) in the rest of the wells, according to requirements.

- 3) Cover the wells with sealing tape and incubate the plate for **2 hours at room temperature** (if possible, shake at ≥ 350 rpm) After incubation aspirate the contents of the wells and wash the wells 3 times with **250 µl Washing buffer / well**.
- 4) Following the last washing step pipette **100 µl** of the 1:100 with **Dilution buffer** diluted **Biotin Conjugate** in each well and incubate **1 hour at room temperature** (if possible shake at ≥350 rpm).
- 5) After incubation wash the wells 3 times with **Washing Buffer** as described in step 3)
- 6) Following the last washing step, pipette **100 µl** of the 1:100 with Dilution Buffer diluted **HRP Conjugate** in each well and incubate the plate for **30 minutes at room temperature** (if possible shake at ≥350 rpm).
- 7) After incubation wash the wells 3 times with **Washing Buffer** as described in the step 3).
- 8) Pipette **100 µl** of the **TMB-Chromogenic substrate** in each well.
- 9) Incubate the plate for **30 minutes** in the dark at **room temperature**.
- 10) Stop the reaction by adding **100 µl** of **Stopping Solution** to all wells.
- 11) Measure the absorbance within **30 minutes** at **450 nm** (reference filter: 620 nm).

ESTABLISHING THE CALIBRATION CURVE

For the evaluation of the assay it is preconditioned that the absorbance values of the blank should be below 0.3 OD, these of calibrator 5 should exceed 0.8 OD.

Samples, which yield higher absorbance values than Calibrator 5 are beyond the calibration curve, for reliable determinations these samples should be tested again with a higher dilution.

The calibrators provided contain the following concentrations of Resistin:

Calibrator	1	2	3	4	5
ng/ml	0.02	0.10	0.30	0.60	1.00
pg/ml	20	100	300	600	1000

- 1) Calculate the mean absorbance value for the blank from the duplicated determination (well A1/A2).
- 2) Subtract the mean absorbance 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.
- 4) Recommendation: Calculation of the calibration curve should be done by using a computer program because the curve is in general (without respective transformation) not ideally described by linear regression. A **higher-grade polynomial**, or **four parametric logistic (4-PL) curve fit** or **non-linear regression** are usually suitable for the evaluation (as might be spline or point-to-point alignment in individual cases).
- 5) The **Resistin concentration** of the diluted sample or the diluted control in ng/ml (or µg/ml according the chosen unit for the calibrators) is calculated in this way, the Resistin concentration of the **undiluted sample** and of control is calculated **by multiplication with the respective dilution factor**.

Calibration Curve

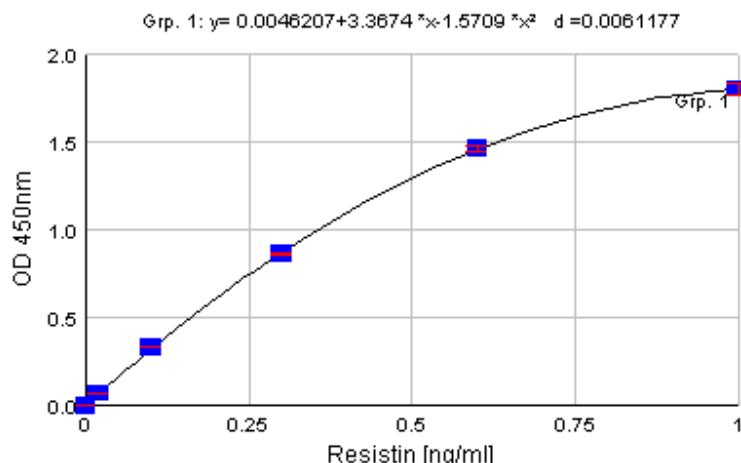


Fig. 1. Exemplary Calibration Curve with a polynomial 2nd degree as curve fit.

The exemplary shown calibration curve in Fig.1 **cannot** be used for calculation of your test results. You have to establish a calibration curve for each test you conduct!

Exemplary calculation of the Resistin concentration of a 1:21 diluted sample:

Measured extinction of your sample	0.85
Measured extinction of the blank	0.05

Your measurement program will calculate the Resistin concentration of the diluted sample automatically by using the difference of sample and blank for the calculation. You only have to determine the most suitable curve fit (here: polynomial 2nd degree).

In this exemplary case the following equation is solved by the program to calculate the Resistin concentration in the sample:

$$y = 0.0046207 + 3.3674 x - 1.5709 x^2$$

$$0.2686 = x$$

if the dilution factor (1:21) is taken into account the Resistin concentration of the undiluted sample is
 $0.2686 \times 21 = 5.64 \text{ ng/mL} = 0.00564 \mu\text{g/mL}$

PERFORMANCE CHARACTERISTICS

Calibrators

The calibrators are prepared from recombinant human Resistin (19.5 kDa, 2 x 92 amino acids, expressed in E. coli) in concentrations of 20, 100, 300, 600 and 1000 pg/ml (pico Gramm / ml, equal to 0.02 ng/ml-1 ng/ml).

Sensitivity

The analytical sensitivity of the assay yields 0.012 ng/ml (12 pg/ml; as 2x SD of zero calibrator in 15fold determination).

Specificity

Commercially available sera from bovine, cat, chicken, dog, donkey, goat, guinea pig, horse, mouse, pig, rabbit, rat and sheep were diluted (1:10) and used as samples in this assay system and the signal intensity was measured. No cross reactivity was detected.

Interference

Interference of physiological appearing substance with the Resistin measurement was investigated. Serum samples have been enriched with different concentrations of possibly interfering substances and the amount of Resistin was measured and compared with the Resistin concentration in the same sample without any enrichment. In table 1 the relative results are shown. None of the tested substances interfered significantly with Resistin measurement.

Table 1: Interference: Three serum samples where enriched with indicated amount of the potentially interfering substance and measured. Shown is % of Resistin of the native, non enriched serum sample

	Triglyceride 100 mg/ml	Bilirubin 100 µg/ml	Haemolysate 1000 µg/ml
Serum 1	101	93	94
Serum 2	115	99	99
Serum 3	104	103	147

Table 2: Effects of coagulation inhibitors were investigating by adding indicated amounts of inhibitors to PP enriched with 0.3 ng/ml Resistin. Relative amounts of Resistin measured in inhibitor containing samples in comparison to 0.3 ng/ml Resistin containing Sample Buffer (PP) are shown.

% of Resistin in PP			
		Mean (n=3)	SD
3.8 g/l	Citrate	94	7.67
0.0068 mol/l	EDTA	93	4.96
30,000 IE/l	Heparin	96	4.89

Reproducibility and Precision

The inter- and intra assay coefficients of variability are below than 6.8% and 5%, respectively.
Exemplary determinations are shown in table 3 and table 4.

Table 3: Intra-Assay-Variation

	Number of determinations	Mean value (µg/ml)	Standard deviation (µg/ml)	CV (%)
Sample 1	16	5.87	0.138	2.35
Sample 2	16	12.19	0.377	3.10
Sample 3	6	14.36	0.668	4.66

Table 4: Inter-Assay-Variation (results of 11 determinations, each)

	Mean value (ng/ml)	Standard deviation (ng/ml)	CV (%)
Sample 1	2.70	0.16	5.94
Sample 2	4.20	0.28	6.77
Sample 3	5.80	0.28	4.79

Recovery and Linearity

The DIAsource Resistin ELISA is over a very wide range dilution authentic, the linearity of serum dilutions is over a very wide range excellent (s.Tab.5).

Table 5: Recovery and linearity of the Sample Dilution (characteristic results of two different sera)

Dilution	Sample 1 (native 5.5 ng/ml)		Sample 2 (native 2.25 ng/ml)	
	plus 5 ng/ml	Recovery (%)	plus 12.25 ng/ml	Recovery (%)
1:50	9.71	92.5	14.99	103.4
1:100	10.60	101.0	13.64	94.1
1:200	10.44	99.4	14.10	97.2
1:400	10.32	98.3	14.33	98.8

Different human sera were spiked with recombinant human Resistin in varying concentrations (e.g. in Table 6). The recovery of Resistin yielded on average 98 % of the theoretically expected amount.

Table 6: Samples were enriched with 0.3 ng/ml Resistin and measured in comparison to non enriched sample. Relative recovery of added Resistin is shown.

Matrix	Dilution	% Recovery
Cerebrospinal fluid	1:2	129
Cerebrospinal fluid	1:10	93
Cerebrospinal fluid	1:40	103
Amnion fluid	1:10	85
Amnion fluid	1:40	91
Saliva	1:10	99
Saliva	1:21	86
Urine	1:10	79
Urine	1:21	85
Breast milk	1:2	97
Breast milk	1:10	58
Breast milk	1:21	63
Cell culture supernatant	1:2	100

EVALUATION OF RESULTS

Table 7: The expected values for Resistin were determined with the DiaSource ELISA in healthy probands and analysed by Prof. Dr. J. Kratzsch, Institute for Laboratory Medicine, University of Leipzig.

Female			Resistin (ng/ml):			
Age (Years):	n:	AV Age:	AV BMI:	AV ± SD:	25.- 75. Percentile:	Min. – Max.:
18 - 30	96	23.0	23.1	7.2 ± 2.6	5.4 – 8.8	3.1 – 14.7
31 - 40	63	36.5	24.3	8.1 ± 2.3	6.4 – 9.6	3.6 – 13.1
41 - 50	67	44.9	24.8	7.3 ± 2.5	5.7 – 8.1	4.0 – 16.1
51 - 60	29	54.7	25.0	7.2 ± 2.6	5.4 – 8.5	4.0 – 15.5
61 - 65	9	62.7	25.2	6.6 ± 1.1	6.0 – 6.7	5.4 – 9.3
Male			Resistin (ng/ml):			
Age (Years):	n:	AV Age:	AV BMI:	AV ± SD:	25.- 75. Percentile:	Min. – Max.:
18 - 30	107	23.9	24.1	6.4 ± 1.8	5.0 – 7.6	2.5 – 13.1
31 - 40	59	35.9	25.0	6.7 ± 3.2	4.8 – 7.4	3.8 – 26.9
41 - 50	66	45.0	25.2	6.5 ± 2.8	4.5 – 7.4	2.4 – 16.7
51 - 60	36	54.8	26.4	6.1 ± 2.1	4.7 – 7.2	3.2 – 13.3
61 - 68	20	63.2	25.6	7.2 ± 1.8	6.0 – 8.2	4.5 – 11.2

n=Number of Probands, AV=Average Value, BMI=Body Mass Index (kg/m²), SD=Standard Deviation

Table 8: Summary of the expected values

Sex	Number	Mean [ng/ml]	Standard deviation	2.5. Percentile	9.5. Percentile
Male	288	6.48	2.44	3.32	11.68
Female	264	7.41	2.47	3.68	13.60
Total	552	6.93	2.49	3.58	13.12

LITERATUR / LITERATURE

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Summary of the Assay

Reagent preparation:	Reconstitution:	Dilution:
Calibrators 1 – 5	in 750 μ l Calibrator Diluent	
Control 1	in 100 μ l Dilution Buffer	1:21 with Calibrator Diluent
Biotin Conjugate		1:100 with Dilution Buffer
HRP Conjugate		1:100 with Dilution Buffer
Washing Buffer		1:20 with Aqua. dest. (e.g., add the complete contents of the flask (50 ml) into a graduated flask and fill with A.dest. to 1000 ml).

Sample dilution: 1:21 (e.g. 15 μ l Serum with 300 μ l Calibrator Diluent).

Assay Procedure for Double Determination

Pipette	Reagents	Position
100 µl	Calibrator Diluent (blank value)	A1/2
100 µl	Calibrator 1 (0.02 ng/ml)	B1/2
100 µl	Calibrator 2 (0.1 ng/ml)	C1/2
100 µl	Calibrator 3 (0.3 ng/ml)	D1/2
100 µl	Calibrator 4 (0.6 ng/ml)	E1/2
100 µl	Calibrator 5 (1.0 ng/ml)	F1/2
100 µl	Control 1	G1/2
100 µl	Sample dilution	following wells
Cover the wells with the sealing tape.		
Incubation: 2 h at RT, ≥350 rpm		
3x 250 µl	Aspirate the contents of the wells and wash 3x with 250 µl Wash Buffer	each well
100 µl	1:100 diluted Biotin Conjugate	each well
Incubation: 1 h at RT, ≥350 rpm		
3x 250 µl	Aspirate the contents of the wells and wash 3x with 250 µl Wash Buffer	each well
100 µl	1:100 diluted HRP Conjugate	each well
Incubation: 30 min at RT, ≥350 rpm		
3x 250 µl	Aspirate the contents of the wells and wash 3x with 250 µl Wash Buffer	each well
100 µl	Chromogenic Substrate	each well
Incubation: 30 min in the dark at RT		
100 µl	Stop Solution	each well
Measure the absorbance within 30 min at 450 nm with 620 nm as reference wavelength.		

Revision date : 2010-02-25

	<u>Used symbols</u>	<u>Symboles utilisés</u>			
	Consult instructions for use	Consulter les instructions d'utilisation			
	Storage temperature	Température de conservation			
	Use by	Utiliser jusque			
	Batch code	Numéro de lot			
	Catalogue number	Référence de catalogue			
	Control	Contrôle			
	In vitro diagnostic medical device	Dispositif médical de diagnostic in vitro			
	Manufacturer	Fabricant			
	Contains sufficient for <n> tests	Contenu suffisant pour <n> tests			
<table border="1"><tr><td>WASH</td><td>SOLN</td><td>CONC</td></tr></table>	WASH	SOLN	CONC	Wash solution concentrated	Solution de lavage concentrée
WASH	SOLN	CONC			
<table border="1"><tr><td>CAL</td><td>0</td></tr></table>	CAL	0	Zero calibrator	Calibrateur zéro	
CAL	0				
<table border="1"><tr><td>CAL</td><td>N</td></tr></table>	CAL	N	Calibrator #	Calibrateur #	
CAL	N				
<table border="1"><tr><td>CONTROL</td><td>N</td></tr></table>	CONTROL	N	Control #	Contrôle #	
CONTROL	N				
<table border="1"><tr><td>Ag</td><td>125I</td></tr></table>	Ag	125I	Tracer	Traceur	
Ag	125I				
<table border="1"><tr><td>Ab</td><td>125I</td></tr></table>	Ab	125I	Tracer	Traceur	
Ab	125I				
<table border="1"><tr><td>Ag</td><td>125I</td><td>CONC</td></tr></table>	Ag	125I	CONC	Tracer concentrated	Traceur concentré
Ag	125I	CONC			
<table border="1"><tr><td>Ab</td><td>125I</td><td>CONC</td></tr></table>	Ab	125I	CONC	Tracer concentrated	Traceur concentré
Ab	125I	CONC			
	Tubes	Tubes			
<table border="1"><tr><td>INC</td><td>BUF</td></tr></table>	INC	BUF	Incubation buffer	Tampon d'incubation	
INC	BUF				
	Acetonitrile	Acétonitrile			
	Serum	Sérum			
<table border="1"><tr><td>DIL</td><td>SPE</td></tr></table>	DIL	SPE	Specimen diluent	Diluant du spécimen	
DIL	SPE				
<table border="1"><tr><td>DIL</td><td>BUF</td></tr></table>	DIL	BUF	Dilution buffer	Tampon de dilution	
DIL	BUF				
	Antiserum	Antisérum			
	Immunoabsorbent	Immunoabsorbant			
<table border="1"><tr><td>DIL</td><td>CAL</td></tr></table>	DIL	CAL	Calibrator diluent	Diluant de calibrateur	
DIL	CAL				
<table border="1"><tr><td>REC</td><td>SOLN</td></tr></table>	REC	SOLN	Reconstitution solution	Solution de reconstitution	
REC	SOLN				
	Polyethylene glycol	Glycol Polyéthylène			
<table border="1"><tr><td>EXTR</td><td>SOLN</td></tr></table>	EXTR	SOLN	Extraction solution	Solution d'extraction	
EXTR	SOLN				
<table border="1"><tr><td>ELU</td><td>SOLN</td></tr></table>	ELU	SOLN	Elution solution	Solution d'elution	
ELU	SOLN				
	Bond Elut Silica cartridges	Cartouches Bond Elut Silica			
<table border="1"><tr><td>PRE</td><td>SOLN</td></tr></table>	PRE	SOLN	Pre-treatment solution	Solution de pré-traitement	
PRE	SOLN				
<table border="1"><tr><td>NEUTR</td><td>SOLN</td></tr></table>	NEUTR	SOLN	Neutralization solution	Solution de neutralisation	
NEUTR	SOLN				
<table border="1"><tr><td>TRACEUR</td><td>BUF</td></tr></table>	TRACEUR	BUF	Tracer buffer	Tampon traceur	
TRACEUR	BUF				
	Microtiterplate	Microplaqué de titration			
<table border="1"><tr><td>Ab</td><td>HRP</td></tr></table>	Ab	HRP	HRP Conjugate	HRP Conjugué	
Ab	HRP				
<table border="1"><tr><td>Ag</td><td>HRP</td></tr></table>	Ag	HRP	HRP Conjugate	HRP Conjugué	
Ag	HRP				
<table border="1"><tr><td>Ab</td><td>HRP</td><td>CONC</td></tr></table>	Ab	HRP	CONC	HRP Conjugate concentrate	HRP Conjugué concentré
Ab	HRP	CONC			
<table border="1"><tr><td>Ag</td><td>HRP</td><td>CONC</td></tr></table>	Ag	HRP	CONC	HRP Conjugate concentrate	HRP Conjugué concentré
Ag	HRP	CONC			
<table border="1"><tr><td>CONJ</td><td>BUF</td></tr></table>	CONJ	BUF	Conjugate buffer	Tampon conjugué	
CONJ	BUF				
<table border="1"><tr><td>CHROM</td><td>TMB</td><td>CONC</td></tr></table>	CHROM	TMB	CONC	Chromogenic TMB concentrate	Chromogène TMB concentré
CHROM	TMB	CONC			
<table border="1"><tr><td>CHROM</td><td>TMB</td></tr></table>	CHROM	TMB	Chromogenic TMB solution	Solution chromogène TMB	
CHROM	TMB				
<table border="1"><tr><td>SUB</td><td>BUF</td></tr></table>	SUB	BUF	Substrate buffer	Tampon substrat	
SUB	BUF				
<table border="1"><tr><td>STOP</td><td>SOLN</td></tr></table>	STOP	SOLN	Stop solution	Solution d'arrêt	
STOP	SOLN				
<table border="1"><tr><td>INC</td><td>SER</td></tr></table>	INC	SER	Incubation serum	Sérum d'incubation	
INC	SER				
	Buffer	Tampon			
<table border="1"><tr><td>Ab</td><td>AP</td></tr></table>	Ab	AP	AP Conjugate	AP Conjugué	
Ab	AP				
<table border="1"><tr><td>SUB</td><td>PNPP</td></tr></table>	SUB	PNPP	Substrate PNPP	Tampon PNPP	
SUB	PNPP				
<table border="1"><tr><td>BIOT</td><td>CONJ</td><td>CONC</td></tr></table>	BIOT	CONJ	CONC	Biotin conjugate concentrate	Biotine conjugué concentré
BIOT	CONJ	CONC			
<table border="1"><tr><td>AVID</td><td>HRP</td><td>CONC</td></tr></table>	AVID	HRP	CONC	Avidine HRP concentrate	Avidine HRP concentré
AVID	HRP	CONC			
<table border="1"><tr><td>ASS</td><td>BUF</td></tr></table>	ASS	BUF	Assay buffer	Tampon de test	
ASS	BUF				
<table border="1"><tr><td>Ab</td><td>BIOT</td></tr></table>	Ab	BIOT	Biotin conjugate	Biotine conjugué	
Ab	BIOT				
	Specific Antibody	Anticorps spécifique			
<table border="1"><tr><td>SAV</td><td>HRP</td><td>CONC</td></tr></table>	SAV	HRP	CONC	Streptavidin HRP concentrate	Concentré streptavidine HRP
SAV	HRP	CONC			
	Non-specific binding	Liant non spécifique			
	2nd Antibody	Second anticorps			
<table border="1"><tr><td>ACID</td><td>BUF</td></tr></table>	ACID	BUF	Acidification Buffer	Tampon d'acidification	
ACID	BUF				

	<u>Gebruikte symbolen</u>	<u>Gebrauchte Symbole</u>			
	Raadpleeg de gebruiksaanwijzing	Gebrauchsanweisung beachten			
	Bewaar temperatuur	Lagern bei			
	Houdbaar tot	Verwendbar bis			
	Lotnummer	Chargenbezeichnung			
	Catalogusnummer	Bestellnummer			
	Controle	Kontrolle			
	Medisch hulpmiddel voor in-vitro diagnostiek	In Vitro Diagnostikum			
	Fabrikant	Hersteller			
	Inhoud voldoende voor <n> testen	Ausreichend für <n> Ansätze			
<table border="1"><tr><td>WASH</td><td>SOLN</td><td>CONC</td></tr></table>	WASH	SOLN	CONC	Wasoplossing, geconcentreerd	Waschlösung-Konzentrat
WASH	SOLN	CONC			
<table border="1"><tr><td>CAL</td><td>0</td></tr></table>	CAL	0	Nulkalibrator	Null kalibrator	
CAL	0				
<table border="1"><tr><td>CAL</td><td>N</td></tr></table>	CAL	N	Kalibrator #	Kalibrator #	
CAL	N				
<table border="1"><tr><td>CONTROL</td><td>N</td></tr></table>	CONTROL	N	Controle #	Kontrolle #	
CONTROL	N				
<table border="1"><tr><td>Ag</td><td>125I</td></tr></table>	Ag	125I	Tracer	Tracer	
Ag	125I				
<table border="1"><tr><td>Ab</td><td>125I</td></tr></table>	Ab	125I	Tracer	Tracer	
Ab	125I				
<table border="1"><tr><td>Ag</td><td>125I</td><td>CONC</td></tr></table>	Ag	125I	CONC	Tracer geconcentreerd	Tracer Konzentrat
Ag	125I	CONC			
<table border="1"><tr><td>Ab</td><td>125I</td><td>CONC</td></tr></table>	Ab	125I	CONC	Tracer geconcentreerd	Tracer Konzentrat
Ab	125I	CONC			
	Buisjes	Röhrchen			
<table border="1"><tr><td>INC</td><td>BUF</td></tr></table>	INC	BUF	Incubatiebuffer	Inkubationspuffer	
INC	BUF				
	ACETONITRILE	Azetonitril			
	SERUM	Humanserum			
<table border="1"><tr><td>DIL</td><td>SPE</td></tr></table>	DIL	SPE	Specimen diluent	Probenverdünner	
DIL	SPE				
<table border="1"><tr><td>DIL</td><td>BUF</td></tr></table>	DIL	BUF	Verdunningsbuffer	Verdünnungspuffer	
DIL	BUF				
	ANTISERUM	Antiserum			
	IMMUNOADSORBENT	Immunoadsorbent			
<table border="1"><tr><td>DIL</td><td>CAL</td></tr></table>	DIL	CAL	Kalibratorverdunner	Kalibratorverdünnung	
DIL	CAL				
<table border="1"><tr><td>REC</td><td>SOLN</td></tr></table>	REC	SOLN	Reconstitutieoplossing	Rekonstitutionslösung	
REC	SOLN				
	PEG	Polyethyleen glycol			
<table border="1"><tr><td>EXTR</td><td>SOLN</td></tr></table>	EXTR	SOLN	Extractieoplossing	Extraktionslösung	
EXTR	SOLN				
<table border="1"><tr><td>ELU</td><td>SOLN</td></tr></table>	ELU	SOLN	Elutieoplossing	Eluierungslösung	
ELU	SOLN				
	GEL	Bond Elut Silica kolom			
<table border="1"><tr><td>PRE</td><td>SOLN</td></tr></table>	PRE	SOLN	Pre-behandelingsoplossing	Vorbehandlungslösung	
PRE	SOLN				
<table border="1"><tr><td>NEUTR</td><td>SOLN</td></tr></table>	NEUTR	SOLN	Neutralisatieoplossing	Neutralisierungslösung	
NEUTR	SOLN				
<table border="1"><tr><td>TRACEUR</td><td>BUF</td></tr></table>	TRACEUR	BUF	Tracerbuffer	Tracer-Puffer	
TRACEUR	BUF				
	Microtiterplaat	Mikrotiterplatte			
<table border="1"><tr><td>Ab</td><td>HRP</td></tr></table>	Ab	HRP	HRP Conjugaat	HRP Konjugat	
Ab	HRP				
<table border="1"><tr><td>Ag</td><td>HRP</td></tr></table>	Ag	HRP	HRP Conjugaat	HRP Konjugat	
Ag	HRP				
<table border="1"><tr><td>Ab</td><td>HRP</td><td>CONC</td></tr></table>	Ab	HRP	CONC	HRP Conjugaat geconcentreerd	HRP Konjugat Konzentrat
Ab	HRP	CONC			
<table border="1"><tr><td>Ag</td><td>HRP</td><td>CONC</td></tr></table>	Ag	HRP	CONC	HRP Conjugaat geconcentreerd	HRP Konjugat Konzentrat
Ag	HRP	CONC			
<table border="1"><tr><td>CONJ</td><td>BUF</td></tr></table>	CONJ	BUF	Conjugaat buffer	Konjugatpuffer	
CONJ	BUF				
<table border="1"><tr><td>CHROM</td><td>TMB</td><td>CONC</td></tr></table>	CHROM	TMB	CONC	Chromogene TMB geconcentreerd	Chromogenes TMB Konzentrat
CHROM	TMB	CONC			
<table border="1"><tr><td>CHROM</td><td>TMB</td></tr></table>	CHROM	TMB	Chromogene Oplossing TMB	Farblösung TMB	
CHROM	TMB				
<table border="1"><tr><td>SUB</td><td>BUF</td></tr></table>	SUB	BUF	Substraatbuffer	Substratpuffer	
SUB	BUF				
<table border="1"><tr><td>STOP</td><td>SOLN</td></tr></table>	STOP	SOLN	Stopoplossing	Stoplösungen	
STOP	SOLN				
<table border="1"><tr><td>INC</td><td>SER</td></tr></table>	INC	SER	Incubatieserum	Inkubationsserum	
INC	SER				
	BUF	Buffer			
<table border="1"><tr><td>Ab</td><td>AP</td></tr></table>	Ab	AP	AP Conjugaat	AP Konjugat	
Ab	AP				
<table border="1"><tr><td>SUB</td><td>PNPP</td></tr></table>	SUB	PNPP	Substraat PNPP	Substrat PNPP	
SUB	PNPP				
<table border="1"><tr><td>BIOT</td><td>CONJ</td><td>CONC</td></tr></table>	BIOT	CONJ	CONC	Geconcentreerd Biotine conjugaat	Biotin-Konjugat-Konzentrat
BIOT	CONJ	CONC			
<table border="1"><tr><td>AVID</td><td>HRP</td><td>CONC</td></tr></table>	AVID	HRP	CONC	Geconcentreerd Avidine-HRP conjugaat	Avidin-HRP-Konzentrat
AVID	HRP	CONC			
<table border="1"><tr><td>ASS</td><td>BUF</td></tr></table>	ASS	BUF	Assay buffer	Assaypuffer	
ASS	BUF				
<table border="1"><tr><td>Ab</td><td>BIOT</td></tr></table>	Ab	BIOT	Biotine conjugaat	Biotin-Konjugat	
Ab	BIOT				
	Ab	Specifiek antilichaam			
<table border="1"><tr><td>SAV</td><td>HRP</td><td>CONC</td></tr></table>	SAV	HRP	CONC	Streptavidine-HRP concentraat	HRP Streptavidinkonzentrat
SAV	HRP	CONC			
	NSB	Aspecifieke binding			
	2nd Ab	2de antilichaam			
	ACID	Verzuringsbuffer			
	BUF	Ansäuerungspuffer			

	Simboli utilizzati	Símbolos utilizados
	Consultare le istruzioni per l'uso	Consultar las instrucciones de uso
	Limitazioni di temperatura	Limitación de temperatura
	Utilizzare entro	Fecha de caducidad
	Numero di lotto	Código de lote
	Numero di catalogo	Número de catálogo
	Controllo	Control
	Dispositivo medico-diagnostico in vitro	Producto sanitario para diagnóstico in vitro
	Fabbricante	Fabricante
	Contenuto sufficiente per <n> saggi	Contenido suficiente para <n> ensayos
	Tampone di lavaggio concentrato	Solución de lavado concentrada
	Calibratore zero	Calibrador cero
	Standard #	Calibrador #
	Controllo #	Control #
	Marcato	Trazador
	Marcato	Trazador
	Marcato concentrato	Trazador concentrada
	Marcato concentrato	Trazador concentrada
	Provette	Tubos
	Tampone incubazione	Tampón de incubación
	Acetonitrile	Acetonitrilo
	Siero	Suero
	Diluente campione	Diluyente de Muestra
	Tampone diluizione	Tampón de dilución
	Antisiero	Antisuero
	Immunoassorbente	Inmunoadsorbente
	Diluente calibratore	Diluyente de calibrador
	Soluzione di ricostituzione	Solución de Reconstitución
	Polietilenglicole	Glicol Polietileno
	Soluzione di estrazione	Solución de extracción
	Soluzione di eluizione	Solución de elución
	Cartucce di silice bond elut	Cartuchos Bond Elut Silica
	Soluzione di pretrattamento	Solución de Pre-tratamiento
	Soluzione di neutralizzazione	Solución de Neutralización
	Tracer Buffer	Tampón de trazador
	Piastra di microtitolazione	Placa de microvaloración
	HRP Coniugato	HRP Conjugado
	HRP Coniugato	HRP Conjugado
	HRP Coniugato concentrato	HRP Conjugado concentrada
	HRP Coniugato concentrato	HRP Conjugado concentrada
	Buffer coniugato	Tampón de Conjugado
	Cromogena TMB concentrato	Cromógena TMB concentrada
	Soluzione cromogena TMB	Solución Cromógena TMB
	Tampone substrato	Tampón de sustrato
	Soluzione di arresto	Solución de Parada
	Incubazione con siero	Suero de Incubación
	Buffer	Tampón
	AP Coniugato	AP Conjugado
	Substrato PNPP	Sustrato PNPP
	Concentrato coniugato con biotina	Concentrado de conjugado de biotina
	Concentrato avidina HRP	Concentrado avidina-HRP
	Soluzione tampone per test	Tampón de ensayo
	Coniugato con biotina	Conjugado de biotina
	Anticorpo Specifico	Anticuerpo específico
	Streptavidina-HRP concentrata	Estreptavidina-HRP Concentrado
	Legame non-specifico	Unión no específica
	2° Anticorpo	Segundo anticuerpo
	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			
	Código de lote		Lotnummer			
	Número de catálogo		Katalognummer			
	Controlo		Kontroll			
	Dispositivo médico de diagnóstico in vitro		In vitro diagnostiskt kit			
	Fabricante		Tillverkare			
	Conteúdo suficiente para <n> testes		Innehållet räcker till <n> prover			
<table border="1"><tr><td>WASH</td><td>SOLN</td><td>CONC</td></tr></table>	WASH	SOLN	CONC	Solução de lavagem concentrada		Tvätlösning, koncentrerad
WASH	SOLN	CONC				
<table border="1"><tr><td>CAL</td><td>0</td></tr></table>	CAL	0	Calibrador zero		Nollkalibrerare	
CAL	0					
<table border="1"><tr><td>CAL</td><td>N</td></tr></table>	CAL	N	Calibrador #		Kalibrator #	
CAL	N					
<table border="1"><tr><td>CONTROL</td><td>N</td></tr></table>	CONTROL	N	Controlo #		Kontroll #	
CONTROL	N					
<table border="1"><tr><td>Ag</td><td>125I</td></tr></table>	Ag	125I	Marcador		Radioisotop, antigen	
Ag	125I					
<table border="1"><tr><td>Ab</td><td>125I</td></tr></table>	Ab	125I	Marcador		Radioisotop, antikropp	
Ab	125I					
<table border="1"><tr><td>Ag</td><td>125I</td><td>CONC</td></tr></table>	Ag	125I	CONC	Marcador concentrada		Radioisotop, antigen koncentrerad
Ag	125I	CONC				
<table border="1"><tr><td>Ab</td><td>125I</td><td>CONC</td></tr></table>	Ab	125I	CONC	Marcador concentrada		Radioisotop, antikropp koncentrerad
Ab	125I	CONC				
	Tubos		Rör			
<table border="1"><tr><td>INC</td><td>BUF</td></tr></table>	INC	BUF	Tampão de incubação		Inkuberingsbuffert	
INC	BUF					
	Acetonitrilo		Acetonitril			
	Soro		Serum			
<table border="1"><tr><td>DIL</td><td>SPE</td></tr></table>	DIL	SPE	Diluidor de espécimes		Spädningsbuffert för prover	
DIL	SPE					
<table border="1"><tr><td>DIL</td><td>BUF</td></tr></table>	DIL	BUF	Tampão de diluição		Spädningsbuffert	
DIL	BUF					
	Anti-soro		Antiserum			
	Imunoadsorvente		Immunoadsorberare			
<table border="1"><tr><td>DIL</td><td>CAL</td></tr></table>	DIL	CAL	Diluente do calibrador		Kalibratordiluent	
DIL	CAL					
<table border="1"><tr><td>REC</td><td>SOLN</td></tr></table>	REC	SOLN	Solução de Reconstituição		Rekonstitutionslösning	
REC	SOLN					
	Polietileno-glicol		Polyetylenglykol			
<table border="1"><tr><td>EXTR</td><td>SOLN</td></tr></table>	EXTR	SOLN	Solução de Extracção		Extraktionslösning	
EXTR	SOLN					
<table border="1"><tr><td>ELU</td><td>SOLN</td></tr></table>	ELU	SOLN	Solução de Eluição		Elueringslösning	
ELU	SOLN					
	Cartuchos de silica Bond Elut		Silikonpatroner för elueringsbindning			
<table border="1"><tr><td>PRE</td><td>SOLN</td></tr></table>	PRE	SOLN	Solução de pré-tratamento		Förbehandlingslösning	
PRE	SOLN					
<table border="1"><tr><td>NEUTR</td><td>SOLN</td></tr></table>	NEUTR	SOLN	Solução de neutralização		Neutraliseringslösning	
NEUTR	SOLN					
<table border="1"><tr><td>TRACEUR</td><td>BUF</td></tr></table>	TRACEUR	BUF	Tampão Marcador		Tracerbuffert	
TRACEUR	BUF					
	Placa de micro titulação		Microtitrplatta			
<table border="1"><tr><td>Ab</td><td>HRP</td></tr></table>	Ab	HRP	HRP Conjugação		HRP-konjugat	
Ab	HRP					
<table border="1"><tr><td>Ag</td><td>HRP</td></tr></table>	Ag	HRP	HRP Conjugação		HRP-konjugat	
Ag	HRP					
<table border="1"><tr><td>Ab</td><td>HRP</td><td>CONC</td></tr></table>	Ab	HRP	CONC	HRP Conjugação concentrada		HRP-konjugat-koncentrat
Ab	HRP	CONC				
<table border="1"><tr><td>Ag</td><td>HRP</td><td>CONC</td></tr></table>	Ag	HRP	CONC	HRP Conjugação concentrada		HRP-konjugat-koncentrat
Ag	HRP	CONC				
<table border="1"><tr><td>CONJ</td><td>BUF</td></tr></table>	CONJ	BUF	Conjugue o tampão		Konjugatbuffert	
CONJ	BUF					
<table border="1"><tr><td>CHROM</td><td>TMB</td><td>CONC</td></tr></table>	CHROM	TMB	CONC	Cromogénica TMB concentrada		Kromogeniskt TMB-koncentrat
CHROM	TMB	CONC				
<table border="1"><tr><td>CHROM</td><td>TMB</td></tr></table>	CHROM	TMB	Solução Cromogénica TMB		Kromogenisk TMB-lösning	
CHROM	TMB					
<table border="1"><tr><td>SUB</td><td>BUF</td></tr></table>	SUB	BUF	Tampão de substrato		Substratbuffert	
SUB	BUF					
<table border="1"><tr><td>STOP</td><td>SOLN</td></tr></table>	STOP	SOLN	Solução de Paragem		Stoplösning	
STOP	SOLN					
<table border="1"><tr><td>INC</td><td>SER</td></tr></table>	INC	SER	Soro de incubação		Inkubationsserum	
INC	SER					
	Tampão		Buffert			
<table border="1"><tr><td>Ab</td><td>AP</td></tr></table>	Ab	AP	AP Conjugação		AP-konjugat	
Ab	AP					
<table border="1"><tr><td>SUB</td><td>PNPP</td></tr></table>	SUB	PNPP	Substrato PNPP		Substrat-PNPP	
SUB	PNPP					
<table border="1"><tr><td>BIOT</td><td>CONJ</td><td>CONC</td></tr></table>	BIOT	CONJ	CONC	Concentrado conjugado de biotina		Biotinkonjugat koncentrat
BIOT	CONJ	CONC				
<table border="1"><tr><td>AVID</td><td>HRP</td><td>CONC</td></tr></table>	AVID	HRP	CONC	Concentrado HRP de avidina		Avidin HRP-koncentrat
AVID	HRP	CONC				
<table border="1"><tr><td>ASS</td><td>BUF</td></tr></table>	ASS	BUF	Tampão de ensaio		Provbuffert	
ASS	BUF					
<table border="1"><tr><td>Ab</td><td>BIOT</td></tr></table>	Ab	BIOT	Conjugado de biotina		Biotinkonjugat	
Ab	BIOT					
	Anticorpo específico		-			
<table border="1"><tr><td>SAV</td><td>HRP</td><td>CONC</td></tr></table>	SAV	HRP	CONC	Estreptavidina HRP concentrado		-
SAV	HRP	CONC				
	Ligações não específicas		-			
	Anticorpo secundário		-			
<table border="1"><tr><td>ACID</td><td>BUF</td></tr></table>	ACID	BUF	Tampão de acidificação		-	
ACID	BUF					

Επεξήγηση συμβόλων			Anvendte symboler			
	Συμβούλευτείτε τις οδηγίες χρήσης		Læs brugsvejledningen			
	Θερμοκρασία αποθήκευσης		Opbevaringstemperatur			
	Ημερομηνία λήξης		Anvend inden			
	Αριθμός παρτίδας		Batchkode			
	Αριθμός καταλόγου		Katalognummer			
	Πρότυπο ελέγχου		Kontrol			
	In Vitro Διαγνωστικό Ιατροτεχνολογικό προϊόν		Medicinsk udstyr til in vitro-diagnosticering			
	Κατασκευαστής		Fabrikant			
	Περιεχόμενο επαρκές για «ν» εξετάσεις		Indeholder nok til <n> test			
<table border="1"><tr><td>WASH</td><td>SOLN</td><td>CONC</td></tr></table>	WASH	SOLN	CONC	Συμπυκνωμένο διάλυμα έκπλυσης		Koncentreret vaskeopløsning
WASH	SOLN	CONC				
<table border="1"><tr><td>CAL</td><td>0</td></tr></table>	CAL	0	Μηδενικός βαθμονομητής		Nul-kalibrator	
CAL	0					
<table border="1"><tr><td>CAL</td><td>N</td></tr></table>	CAL	N	Βαθμονομητής #		Kalibrator nr.	
CAL	N					
<table border="1"><tr><td>CONTROL</td><td>N</td></tr></table>	CONTROL	N	Ορός ελέγχου #		Kontrol nr.	
CONTROL	N					
<table border="1"><tr><td>Ag</td><td>125I</td></tr></table>	Ag	125I	Ιχνηθέτης		Markør	
Ag	125I					
<table border="1"><tr><td>Ab</td><td>125I</td></tr></table>	Ab	125I	Ιχνηθέτης		Markør	
Ab	125I					
<table border="1"><tr><td>Ag</td><td>125I</td><td>CONC</td></tr></table>	Ag	125I	CONC	Χρωμογόνος Ιχνηθέτης		Koncentreret markør
Ag	125I	CONC				
<table border="1"><tr><td>Ab</td><td>125I</td><td>CONC</td></tr></table>	Ab	125I	CONC	Χρωμογόνος Ιχνηθέτης		Koncentreret markør
Ab	125I	CONC				
	Σωληνάρια		Tuber			
<table border="1"><tr><td>INC</td><td>BUF</td></tr></table>	INC	BUF	Ρυθμιστικό διάλυμα επώασης		Inkubationsbuffer	
INC	BUF					
	Ακετονιτρίλιο		Acetonitril			
	Ορός		Serum			
<table border="1"><tr><td>DIL</td><td>SPE</td></tr></table>	DIL	SPE	Διάλυμα αραίωσης δειγμάτων		Prøvediluent	
DIL	SPE					
<table border="1"><tr><td>DIL</td><td>BUF</td></tr></table>	DIL	BUF	Ρυθμιστικό διάλυμα αραίωσης		Fortyndingsbuffer	
DIL	BUF					
	Αντιορός		Antiserum			
	Ανοσοπροσφορητικό		Immonoadsorbent			
<table border="1"><tr><td>DIL</td><td>CAL</td></tr></table>	DIL	CAL	Αραιωτικό βαθμονομητών		Kalibratordiluent	
DIL	CAL					
<table border="1"><tr><td>REC</td><td>SOLN</td></tr></table>	REC	SOLN	Διάλυμα ανασύστασης		Rekonstitueringsopløsning	
REC	SOLN					
	Πολυαθυλενογλυκόλη		Polyetyleneglykol			
<table border="1"><tr><td>EXTR</td><td>SOLN</td></tr></table>	EXTR	SOLN	Διάλυμα εκχύλισης		Ekstraktionsopløsning	
EXTR	SOLN					
<table border="1"><tr><td>ELU</td><td>SOLN</td></tr></table>	ELU	SOLN	Διάλυμα έκλουσης		Elueringsopløsning	
ELU	SOLN					
	Φύσιγγες πυριτίου Bond Elut		Patroner med bindingselueringssilica			
<table border="1"><tr><td>PRE</td><td>SOLN</td></tr></table>	PRE	SOLN	Διάλυμα προεπεξεργασίας		Forbehandlingsopløsning	
PRE	SOLN					
<table border="1"><tr><td>NEUTR</td><td>SOLN</td></tr></table>	NEUTR	SOLN	Διάλυμα εξουδετέρωσης		Neutraliseringssopløsning	
NEUTR	SOLN					
<table border="1"><tr><td>TRACEUR</td><td>BUF</td></tr></table>	TRACEUR	BUF	Ρυθμιστικό διάλυμα		Markørbuffer	
TRACEUR	BUF					
	Πλάκα μικροτιτλοδότησης		Mikrotiterplade			
<table border="1"><tr><td>Ab</td><td>HRP</td></tr></table>	Ab	HRP	HRP Σύζευγμα		HRP-konjugat	
Ab	HRP					
<table border="1"><tr><td>Ag</td><td>HRP</td></tr></table>	Ag	HRP	HRP Σύζευγμα		HRP-konjugat	
Ag	HRP					
<table border="1"><tr><td>Ab</td><td>HRP</td><td>CONC</td></tr></table>	Ab	HRP	CONC	Χρωμογόνος HRP Σύζευγμα		HRP-konjugat-koncentreret
Ab	HRP	CONC				
<table border="1"><tr><td>Ag</td><td>HRP</td><td>CONC</td></tr></table>	Ag	HRP	CONC	Χρωμογόνος HRP Σύζευγμα		HRP-konjugat-koncentreret
Ag	HRP	CONC				
<table border="1"><tr><td>CONJ</td><td>BUF</td></tr></table>	CONJ	BUF	Ρυθμιστικό διάλυμα συζεύγματος		Konjugatbuffer	
CONJ	BUF					
<table border="1"><tr><td>CHROM</td><td>TMB</td><td>CONC</td></tr></table>	CHROM	TMB	CONC	Χρωμογόνος TMB		Kromogen TMB-koncentreret
CHROM	TMB	CONC				
<table border="1"><tr><td>CHROM</td><td>TMB</td></tr></table>	CHROM	TMB	Διάλυμα χρωμογόνου TMB		Kromogen TMB-opløsning	
CHROM	TMB					
<table border="1"><tr><td>SUB</td><td>BUF</td></tr></table>	SUB	BUF	Ρυθμιστικό διάλυμα υποστρώματος		Substratbuffer	
SUB	BUF					
	Ανασχετικό αντιδραστήριο		Stopopløsning			
<table border="1"><tr><td>INC</td><td>SER</td></tr></table>	INC	SER	Ορός επώασης		Inkubationsserum	
INC	SER					
	Ρυθμιστικό διάλυμα		Buffer			
<table border="1"><tr><td>Ab</td><td>AP</td></tr></table>	Ab	AP	AP Σύζευγμα		AP-konjugat	
Ab	AP					
<table border="1"><tr><td>SUB</td><td>PNPP</td></tr></table>	SUB	PNPP	PNPP υποστρώματος		Substrat PNPP	
SUB	PNPP					
<table border="1"><tr><td>BIOT</td><td>CONJ</td><td>CONC</td></tr></table>	BIOT	CONJ	CONC	Συμπυκνωμένο αντιδραστήριο συζεύγμένο με βιοτίνη		Biotin konjugat koncentrat
BIOT	CONJ	CONC				
<table border="1"><tr><td>AVID</td><td>HRP</td><td>CONC</td></tr></table>	AVID	HRP	CONC	Συμπυκνωμένο διάλυμα αβιδίνης-HRP		Avidin HRP koncentrat
AVID	HRP	CONC				
<table border="1"><tr><td>ASS</td><td>BUF</td></tr></table>	ASS	BUF	Ρυθμιστικό διάλυμα προσδιορισμού		Prøvebuffer	
ASS	BUF					
<table border="1"><tr><td>Ab</td><td>BIOT</td></tr></table>	Ab	BIOT	αντιδραστήριο συζεύγμένο με βιοτίνη		Biotin konjugat	
Ab	BIOT					
	Ειδικό Αντίσωμα		-			
<table border="1"><tr><td>SAV</td><td>HRP</td><td>CONC</td></tr></table>	SAV	HRP	CONC	Συμπυκνωμένη στρεπταβιδίνη συνεζεύγμένη με HRP		-
SAV	HRP	CONC				
	μη-ειδική δέσμευση		-			
	2o Αντίσωμα		-			
<table border="1"><tr><td>ACID</td><td>BUF</td></tr></table>	ACID	BUF	Ρυθμιστικό Διάλυμα άξινο		-	
ACID	BUF					

	Stosowane symbole	Használt szimbólumok			
	Przed zastosowaniem zapoznać się z instrukcją	Olvassa el a használati útmutatót			
	Temperatura przechowywania	Tárolási hőmérséklet			
	Zużyć przed	Lejárati idő			
	Kod serii	Gyártási kód			
	Numer katalogowy	Katalógus szám			
	Kontrola	Kontrol			
	Urządzenie medyczne do diagnostyki in vitro	In vitro diagnosztikai eszköz			
	Producent	Gyártó			
	Zawartość wystarczająca do <n> testów	Tartalma <n> teszt elvégzésére elegendő			
<table border="1"><tr><td>WASH</td><td>SOLN</td><td>CONC</td></tr></table>	WASH	SOLN	CONC	Roztwór płuczący stężony	Mosó folyadék koncentrátum
WASH	SOLN	CONC			
<table border="1"><tr><td>CAL</td><td>0</td></tr></table>	CAL	0	Kalibrator zerowy	Zero kalibrátor	
CAL	0				
<table border="1"><tr><td>CAL</td><td>N</td></tr></table>	CAL	N	Kalibrator nr	Kalibrátor #	
CAL	N				
<table border="1"><tr><td>CONTROL</td><td>N</td></tr></table>	CONTROL	N	Kontrola nr	Kontrol #	
CONTROL	N				
<table border="1"><tr><td>Ag</td><td>125I</td></tr></table>	Ag	125I	Znacznik izotopowy	Nyomjelző izotóp	
Ag	125I				
<table border="1"><tr><td>Ab</td><td>125I</td></tr></table>	Ab	125I	Znacznik izotopowy	Nyomjelző izotóp	
Ab	125I				
<table border="1"><tr><td>Ag</td><td>125I</td><td>CONC</td></tr></table>	Ag	125I	CONC	Znacznik izotopowy stężony	Nyomjelző izotóp koncentrátum
Ag	125I	CONC			
<table border="1"><tr><td>Ab</td><td>125I</td><td>CONC</td></tr></table>	Ab	125I	CONC	Znacznik izotopowy stężony	Nyomjelző izotóp koncentrátum
Ab	125I	CONC			
	Probówki	Csövek			
<table border="1"><tr><td>INC</td><td>BUF</td></tr></table>	INC	BUF	Wymagana inkubacja buforu	Inkubáló puffer	
INC	BUF				
	Acetonitryl	Acetonitril			
	Surowica	Szérum			
<table border="1"><tr><td>DIL</td><td>SPE</td></tr></table>	DIL	SPE	Rozcieńczalnik próbki	Mintahigitó	
DIL	SPE				
<table border="1"><tr><td>DIL</td><td>BUF</td></tr></table>	DIL	BUF	Bufor do rozcieńczania	Higító puffer	
DIL	BUF				
	Antysurowica	Antiszérum			
	Immunoadsorbent	Immunadszorbens			
<table border="1"><tr><td>DIL</td><td>CAL</td></tr></table>	DIL	CAL	Rozcieńczalnik kalibratora	Kalibrátor higító	
DIL	CAL				
<table border="1"><tr><td>REC</td><td>SOLN</td></tr></table>	REC	SOLN	Roztwór do rozcieńczania	Mintaelökészítő oldat	
REC	SOLN				
	Glikol poli(oksy)etylenowy	Polietilén glikol			
<table border="1"><tr><td>EXTR</td><td>SOLN</td></tr></table>	EXTR	SOLN	Roztwór ekstrakcyjny	Extrakciós oldat	
EXTR	SOLN				
<table border="1"><tr><td>ELU</td><td>SOLN</td></tr></table>	ELU	SOLN	Roztwór elucencyjny	Eluáló oldat	
ELU	SOLN				
	Kolumny krzemionkowe Bond Elut	Bond Elut Silica szilikagél patronok			
<table border="1"><tr><td>PRE</td><td>SOLN</td></tr></table>	PRE	SOLN	Roztwór do przygotowania wstępnego	Előkezelő oldat	
PRE	SOLN				
<table border="1"><tr><td>NEUTR</td><td>SOLN</td></tr></table>	NEUTR	SOLN	Roztwór neutralizujący	Semlegesítő oldat	
NEUTR	SOLN				
<table border="1"><tr><td>TRACEUR</td><td>BUF</td></tr></table>	TRACEUR	BUF	Bufor znacznika	Nyomjelző izotóp higító puffer	
TRACEUR	BUF				
	mikroplytka	Mikrotiter lemez			
<table border="1"><tr><td>Ab</td><td>HRP</td></tr></table>	Ab	HRP	Koniugat peroksydazy chrzanowej	HRP konjugátum	
Ab	HRP				
<table border="1"><tr><td>Ag</td><td>HRP</td></tr></table>	Ag	HRP	Koniugat peroksydazy chrzanowej	HRP konjugátum	
Ag	HRP				
<table border="1"><tr><td>Ab</td><td>HRP</td><td>CONC</td></tr></table>	Ab	HRP	CONC	Koncentrat koniugatu peroksydazy chrzanowej	HRP konjugátum koncentrátum
Ab	HRP	CONC			
<table border="1"><tr><td>Ag</td><td>HRP</td><td>CONC</td></tr></table>	Ag	HRP	CONC	Koncentrat koniugatu peroksydazy chrzanowej	HRP konjugátum koncentrátum
Ag	HRP	CONC			
<table border="1"><tr><td>CONJ</td><td>BUF</td></tr></table>	CONJ	BUF	Bufor do koniugacji	Konjugátum puffer	
CONJ	BUF				
<table border="1"><tr><td>CHROM</td><td>TMB</td><td>CONC</td></tr></table>	CHROM	TMB	CONC	Koncentrat chromogenu TMB (czterometylobenzydyny)	Kromogén TMB koncentrátum
CHROM	TMB	CONC			
<table border="1"><tr><td>CHROM</td><td>TMB</td></tr></table>	CHROM	TMB	Roztwór chromogenu TMB (czterometylobenzydyny)	Kromogén TMB oldat	
CHROM	TMB				
<table border="1"><tr><td>SUB</td><td>BUF</td></tr></table>	SUB	BUF	Bufor substratu	Szubsztrát puffer	
SUB	BUF				
<table border="1"><tr><td>STOP</td><td>SOLN</td></tr></table>	STOP	SOLN	Roztwór zatrzymujący reakcję	Stop oldat	
STOP	SOLN				
<table border="1"><tr><td>INC</td><td>SER</td></tr></table>	INC	SER	Wymagana inkubacja surowicy	Inkubációs szérum	
INC	SER				
	Bufor	Puffer			
<table border="1"><tr><td>Ab</td><td>AP</td></tr></table>	Ab	AP	Koniugat AP (fosfatazy alkalicznej)	AP konjugátum	
Ab	AP				
<table border="1"><tr><td>SUB</td><td>PNPP</td></tr></table>	SUB	PNPP	p-nitrofenylofosforan substratowy	Szubsztrát PNPP	
SUB	PNPP				
<table border="1"><tr><td>BIOT</td><td>CONJ</td><td>CONC</td></tr></table>	BIOT	CONJ	CONC	Koncentrat koniugatu biotyny	Biotin konjugátum koncentrátum
BIOT	CONJ	CONC			
<table border="1"><tr><td>AVID</td><td>HRP</td><td>CONC</td></tr></table>	AVID	HRP	CONC	Koncentrat peroksydazy chrzanowej z avidyną	Avidin HRP koncentrátum
AVID	HRP	CONC			
<table border="1"><tr><td>ASS</td><td>BUF</td></tr></table>	ASS	BUF	Bufor do oznaczania	Vizsgálati puffer	
ASS	BUF				
<table border="1"><tr><td>Ab</td><td>BIOT</td></tr></table>	Ab	BIOT	Koniugatu biotyny	Biotin konjugátum	
Ab	BIOT				
	Przeciwciało swoiste	Specifikus ellenanyag			
<table border="1"><tr><td>SAV</td><td>HRP</td><td>CONC</td></tr></table>	SAV	HRP	CONC	Koncentrat streptawidyny HRP	Sztreptavidin HRP koncentrátum
SAV	HRP	CONC			
	Wiązanie nieswoiste	Nem-specifikus kötődés			
	Drugie przeciwciało	Másodlagos ellenanyag			
<table border="1"><tr><td>ACID</td><td>BUF</td></tr></table>	ACID	BUF	Bufor zakwaszający	Savas puffer	
ACID	BUF				

		<u>Използвани символи</u>
		Вижте инструкцията за работа
		Температура на съхранение
		Използвайте с
		Партиден код
		Каталожен номер
		Контрол
		Ин витро диагностично медицинско изделие
		Производител
		Съдържание достатъчно за <n> теста
		Концентриран измиващ разтвор
		Нулев калибратор
		Калибратор #
		Контрол #
	125I	Трейсър
	125I	Трейсър
	125I CONC	Концентриран маркер
	125I CONC	Концентриран маркер
		Епруетки
		Инкубационен буфер
		Ацетонитрил
		Серум
	SPE	Разредител за пробите
	BUF	Буфер за разреждане
		Антисерум
		Имуноабсорбент
	CAL	Разредител за калибратора
	SOLN	Пресъздаващ разтвор
		Полиетилен гликол
	SOLN	Екстрактов разтвор
	SOLN	Разтвор за елюиране
		Силикагелни пълнители
	SOLN	Пред-лечебен разтвор
	SOLN	Неутрализиращ разтвор
	BUF	Маркерен буфер
		Микротитърна пластина
		HRP конюгат / Конюгат на хрянова пероксидаза
		HRP конюгат / Конюгат на хрянова пероксидаза
		HRP конюгиран концентрат
		HRP конюгиран концентрат
		Буфер за конюгата
		Хромогенен TMB концентрат
		Хромогенен TMB разтвор
		Субстратен буфер
	SOLN	Стоп разтвор
		Инкубационен серум
		Буфер
	AP	AP конюгат / конюгат на алкална фосфатаза
		Субстрат PNPP / пара нитрофенил фосфат
	CONC	Биотин конюгиран концентрат
	CONC	Авидин HRP концентрат
		Буфер за пробите
		Биотин конюгат
		специфично антитяло
	CONC	стрептавидин HRP концентрат
		не специфично свързване
		второ антитяло
	BUF	киселинизиращ буфер