

**REF 10512 Intrinsic Factor** 











# **Instruction Manual**

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Product Desc.		Intrinsic Factor
	Manual Rev. No.	004 : 2014-08-25

### 1 Intended Use

**Intrinsic factor** is a solid phase enzyme immunoassay with recombinant human intrinsic factor for the quantitative detection of IgG antibodies against intrinsic factor.

The assay is a tool in the diagnosis of pernicious anaemia (Biermer's anaemia)

## 2 Clinical Application and Principle of the Assay

Pernicious anaemia is the end stage of an autoimmune gastritis (type A gastritis) resulting in destruction of the gastric mucosa. A small proportion (10-15%) of patients with autoimmune gastritis develop pernicious anaemia. Pernicious anaemia is the most common cause of vitamin B12 deficiency in Western populations. It is caused by a lack of intrinsic factor, a glycoprotein needed to absorb vitamin B12 from the gastrointestinal tract. Intrinsic factor is produced by gastric parietal cells. Vitamin B12, in turn, is necessary for the formation of red blood cells.

Pernicious anaemia usually does not appear before the age of 30. The average age at diagnosis is 60 years. In fact, one recent study revealed that nearly 2 percent of individuals over 60 years old suffer from pernicious anaemia. Furthermore, slightly more women than men are affected. The disease can affect all ethnic groups, but occurs more often among people of Scandinavian or Northern European descent.

Autoantibodies in pernicious anaemia target parietal cells and intrinsic factor. Antibodies against parietal cells are 80-90% sensitive but can be detected also in up to 5% of the healthy population. Antibodies against intrinsic factor show a sensitivity of 50-70% with a specificity of 100% in a population of healthy blood donors.

#### Principle of the test

Serum samples diluted 1:101 are incubated in the microplates coated with the specific antigen. Patient's antibodies, if present in the specimen, bind to the antigen. The unbound fraction is washed off in the following step. Afterwards anti-human immunoglobulins conjugated to horseradish peroxidase (conjugate) are incubated and react with the antigen-antibody complex of the samples in the microplates. Unbound conjugate is washed off in the following step. Addition of TMB-substrate generates an enzymatic colorimetric (blue) reaction, which is stopped by diluted acid (color changes to yellow). The intensity of color formation from the chromogen is a function of the amount of conjugate bound to the antigen-antibody complex and this is proportional to the initial concentration of the respective antibodies in the patient sample.



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## Kit Contents

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TO BE RECONSTITUTED					
Item	Quantity	Cap color	Solution color	Description / Contents	
Sample Buffer (5x)	1 x 20ml	White	Yellow	5 x concentrated Tris, sodium chloride (NaCl), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)	
Wash Buffer (50x)	1 x 20ml	White	Green	50 x concentrated Tris, NaCl, Tween 20, sodium azide < 0.1% (preservative)	
	·	RE	ADY TO USE		
Item	Quantity	Cap color	Solution color	Description / Contents	
Negative Control	1 x 1.5ml	Green	Colorless	Human serum (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)	
Positive Control	1 x 1.5ml	Red	Yellow	Human serum (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)	
Calibrators	6 x 1.5ml	White	Yellow *	Concentration of each calibrator: 0, 3, 10, 30, 100, 300 U/ml. Human serum (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)	
Conjugate, IgG	1 x 15ml	Blue	Blue	Containing: Anti-human immunoglobulins conjugated to horseradish peroxidase, bovine serum albumin (BSA)	
TMB Substrate	1 x 15ml	Black	Colorless	Stabilized tetramethylbenzidine and hydrogen peroxide (TMB/H <sub>2</sub> O <sub>2</sub> )	
Stop Solution	1 x 15ml	White	Colorless	1M Hydrochloric Acid	
Microtiter plate	12 x 8 well strips	N/A	N/A	With breakaway microwells. Refer to paragraph 1 for coating.	

<sup>\*</sup> Color increasing with concentration

#### MATERIALS REQUIRED, BUT NOT PROVIDED

Microtiter plate reader 450 nm reading filter and recommended 620 nm reference filter (600-690 nm). Glass ware (cylinder 100-1000ml), test tubes for dilutions. Vortex mixer, precision pipettes (10, 100, 200, 500, 1000 µl) or adjustable multipipette (100-1000µl). Microplate washing device (300 µl repeating or multichannel pipette or automated system), adsorbent paper. Our tests are designed to be used with purified water according to the definition of the United States Pharmacopeia (USP 26 - NF 21) and the European Pharmacopeia (Eur.Ph. 4th ed.).

# 4 Storage and Shelf Life

Store all reagents and the microplate at 2-8°C/35-46°F, in their original containers. Once prepared, reconstituted solutions are stable at 2-8°C/35-46°F for at least 1 month. Reagents and the microplate shall be used within the expiry date indicated on each component, only. Avoid intense exposure of TMB solution to light. Store microplates in designated foil, including the desiccant, and seal tightly.



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## 5 Precautions of Use

#### 5.1 Health hazard data

THIS PRODUCT IS FOR IN VITRO DIAGNOSTIC USE ONLY. Thus, only staff trained and specially advised in methods of in vitro diagnostics may perform the kit. Although this product is not considered particularly toxic or dangerous in conditions of the intended use, refer to the following for maximum safety:

#### Recommendations and precautions

This kit contains potentially hazardous components. Though kit reagents are not classified being irritant to eyes and skin we recommend to avoid contact with eyes and skin and wear disposable gloves.

WARNING! Calibrators, Controls and Buffers contain sodium azide (NaN<sub>3</sub>) as a preservative. NaN<sub>3</sub> may be toxic if ingested or adsorbed by skin or eyes. NaN<sub>3</sub> may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up. Please refer to decontamination procedures as outlined by CDC or other local/national guidelines.

#### Do not smoke, eat or drink when manipulating the kit. Do not pipette by mouth.

All human source material used for some reagents of this kit (controls, standards e.g.) has been tested by approved methods and found negative for HbsAg, Hepatitis C and HIV 1. However, no test can guarantee the absence of viral agents in such material completely. Thus handle kit controls, standards and patient samples as if capable of transmitting infectious diseases and according to national requirements.

The kit contains material of animal origin as stated in the table of contents, handle according to national requirements.

#### 5.2 General directions for use

In case that the product information, including the labeling, is defective or incorrect please contact the manufacturer or the supplier of the test kit.

Do not mix or substitute Controls, Calibrators, Conjugates or microplates from different lot numbers. This may lead to variations in the results.

Allow all components to reach room temperature (20-32°C/68-89.6°F) before use, mix well and follow the recommended incubation scheme for an optimum performance of the test.

Incubation: We recommend test performance at 30°C/86°F for automated systems.

Never expose components to higher temperature than 37°C/98.6°F.

Always pipette substrate solution with brand new tips only. Protect this reagent from light. Never pipette conjugate with tips used with other reagents prior.

A definite clinical diagnosis should not be based on the results of the performed test only, but should be made by the physician after all clinical and laboratory findings have been evaluated. The diagnosis is to be verified using different diagnostic methods.



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## 6 Sample Collection, Handling and Storage

Use preferentially freshly collected serum samples. Blood withdrawal must follow national requirements. Do not use icteric, lipemic, hemolysed or bacterially contaminated samples. Sera with particles should be cleared by low speed centrifugation (<1000 x g). Blood samples should be collected in clean, dry and empty tubes.

After separation, the serum samples should be used during the first 8h, respectively stored tightly closed at 2-8°C/35-46°F up to 48h, or frozen at -20°C/-4°F for longer periods

## 7 Assay Procedure

## 7.1 Preparations prior to starting

Dilute concentrated reagents:

Dilute the concentrated sample buffer 1:5 with distilled water (e.g. 20 ml plus 80 ml).

Dilute the concentrated wash buffer 1:50 with distilled water (e.g. 20 ml plus 980 ml).

To avoid mistakes we suggest to mark the cap of the different calibrators.

#### Samples:

Dilute serum samples 1:101 with sample buffer (1x)

e.g. 1000 µl sample buffer (1x) + 10 µl serum. Mix well!

#### Washing:

Prepare 20 ml of diluted wash buffer (1x) per 8 wells or 200 ml for 96 wells

e.g. 4 ml concentrate plus 196 ml distilled water.

#### Automated washing:

Consider excess volumes required for setting up the instrument and dead volume of robot pipette.

## Manual washing:

Discard liquid from wells by inverting the plate. Knock the microwell frame with wells downside vigorously on clean adsorbent paper. Pipette 300 µl of diluted wash buffer into each well, wait for 20 seconds. Repeat the whole procedure twice again.

#### **Microplates:**

Calculate the number of wells required for the test. Remove unused wells from the frame, replace and store in the provided plastic bag, together with desiccant, seal tightly (2-8°C/35-46°F).



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# 7.2 Pipetting Scheme

We suggest pipetting calibrators, controls and samples as follows:

## For QUANTITATIVE interpretation

	1	2	3	4
Α	Cal A	Cal E	P1	
В	Cal A	Cal E	P1	
С	Cal B	Cal F	P2	
D	Cal B	Cal F	P2	
E	Cal C	PC	P3	
F	Cal C	PC	P3	
G	Cal D	NC		
Н	Cal D	NC		

CalA: calibrator A CalD: calibrator D PC: positive control P1: patient 1
CalB: calibrator B CalE: calibrator E NC: negative control P2: patient 2
CalC: calibrator C CalF: calibrator F P3: patient 3

# 7.3 Test Steps

Step	Description		
1.	Ensure preparations from step 7.1 above have been carried out prior to pipetting.		
2.	Use the following steps in accordance with quantitative interpretation results desired:		
	CONTROLS & SAMPLES		
3.	Pipette into the designated wells as described in chapter 7.2 above, 100 µl of either:  Calibrators (CAL.A to CAL.F)		
	and 100 μl of each of the following:		
	<ul> <li>Negative control (NC) and Positive control (PC), and</li> <li>Patients diluted serum (P1, P2)</li> </ul>		
4.	Incubate for 30 minutes at 20-32°C/68-89.6°F.		
5.	WashB  → Wash 3x with 300 µl washing buffer (diluted 1:50).		



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	CONJUGATE				
6.	+100 µl	Pipette 100 μl conjugate into each well.			
7.	30'	Incubate for 30 minutes at 20-32°C/68-89.6°F.			
8.	WASHB →	Wash 3x with 300 μl washing buffer (diluted 1:50).			
		SUBSTRATE			
9.	**SUB +100 μΙ	Pipette 100 μl TMB substrate into each well.			
10.		Incubate for 30 minutes at 20-32°C/68-89.6°F, protected from intense light.			
STOP					
11.	+100 µI	Pipette 100 μl stop solution into each well, using the same order as pipetting the substrate.			
12.	5'	Incubate 5 minutes minimum.			
13.		Agitate plate carefully for 5 sec.			
14.	OD <sub>450</sub> OD <sub>620</sub> 450/620 nm	Read absorbance at 450 nm (recommended 450/620 nm) within 30 minutes.			



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# 8 Quantitative Interpretation

For quantitative interpretation establish the standard curve by plotting the optical density (OD) of each calibrator (y-axis) with respect to the corresponding concentration values in U/ml (x-axis). For best results we recommend log/lin coordinates and 4-Parameter Fit. From the OD of each sample, read the corresponding antibody concentrations expressed in U/ml.

Normal Range	Equivocal Range	Positive Results
< 12 U/ml	12 - 18 U/ml	>18 U/ml

## Example of a standard curve

Do NOT use this example for interpreting patient's result

Calibrators IgG	OD 450/620 nm	CV % (Variation)
0 U/ml	0.041	0.4
3 U/ml	0.164	2.5
10 U/ml	0.322	2.2
30 U/ml	0.615	1.3
100 U/ml	1.239	3.0
300 U/ml	2.141	1.3

## Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	1.275/ 1.259	1.267	101.0
P 02	0.668 /0.673	0.671	34.3

Samples above the highest calibrator range should be reported as >Max. They should be diluted as appropriate and re-assayed. Samples below calibrator range should be reported as < Min.

For lot specific data, see enclosed quality control leaflet. Medical laboratories might perform an in-house quality control by using own controls and/or internal pooled sera, as foreseen by national regulations.

Each laboratory should establish its own normal range based upon its own techniques, controls, equipment and patient population according to their own established procedures.

In case that the values of the controls do not meet the criteria the test is invalid and has to be repeated.

The following technical issues should be verified: Expiration dates of (prepared) reagents, storage conditions, pipettes, devices, photometer, incubation conditions and washing methods.

If the items tested show aberrant values or any kind of deviation or that the validation criteria are not met without explicable cause please contact the manufacturer or the supplier of the test kit.



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#### 9 Technical Data

Sample material: serum

Sample volume: 10 µl of sample diluted 1:101 with 1x sample buffer

Total incubation time: 90 minutes at 20-32°C/68-89.6°F

Calibration range: 0-300 U/ml Analytical sensitivity: 1.0 U/ml

Storage: at 2-8°C/35-46°F use original vials only.

Number of determinations: 96 tests

### 10 Performance Data

## 10.1 Analytical sensitivity

Testing sample buffer 30 times on Intrinsic factor gave an analytical sensivity of 1.0 U/ml.

## 10.2 Specificity and sensitivity

The microplates are coated with recombinant human gastric intrinsic factor. No crossreactivities to other autoantigens have been found. Antibodies against intrinsic factor show a diagnostic sensitivity of 50-70% for pernicious anaemia and show a specificity of 100% in a population of healthy blood donors. Antibodies against parietal cells are 80-90% sensitive but can be detected also in up to 5% of the healthy population.

## 10.3 Linearity

Chosen sera have been tested with this kit and found to dilute linearly. However, due to the heterogeneous nature of human autoantibodies there might be samples that do not follow this rule.

Sample	Dilution	Measured	Expected	Recovery
No.	Factor	(U/ml)	(U/ml)	(%)
1	1 / 100	160.0	163.0	98.2
	1 / 200	79.08	81.5	97.9
	1 / 400	37.4	40.8	91.7
	1 / 800	18.9	20.4	92.6
2	1 / 100	101.0	104.0	97.1
	1 / 200	53.0	52.0	101.9
	1 / 400	28.0	26.0	107.7
	1 / 800	12.0	13.0	92.3



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#### 10.4 Precision

To determine the precision of the assay, the variability (intra and inter-assay) was assessed by examining its reproducibility on three serum samples selected to represent a range over the standard curve.

Ir	ntra-assay	
Sample No.	Mean (U/ml)	CV (%)
1	285.0	6.1
2	149.0	4.8
3	63.0	5.2

Ir	nter-assay	
Sample No.	Mean (U/ml)	CV (%)
1	279.0	4.8
2	159.0	3.2
3	58.0	5.6

#### 10.5 Calibration

Due to the lack of international reference calibration this assay is calibrated in arbitrary units (U/ml).

#### 11 Literature

**Carmel, R. (1992)**. Reassessment of the relative prevalences of antibodies to gastric parietal cell and to intrinsic factor in patients with pernicious anaemia: influence of patient age and race. Clin Exp Immunol, 89: 74-77 (11): 2617-20.

Oh R, Brown DL (2003). Vitamin B12 deficiency. Am Fam Physician, 67: 979-986.

Toh Ban-Hock, Alderuccio, F. (2004). Pernicious anaemia Autoimmunity 37: 357-361.

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	- Pour diagnostic in vitro	- Para uso diagnóstico in vitro
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CON+  CON-  CAL  RC	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugado
CON+  CON-  CAL  RC	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Negatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Konjugat	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugado
CON+  CON-  CAL  RC  CONJ	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugato "Conjugá "Konjugat "Conjugado "Micropiastra rivestita	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugado " Σύζευγμα " Coated microtiter plate
CON+  CON-  CAL  RC  CONJ	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugé "Konjugat "Conjugado "Micropiastra rivestita "Microplaque sensibilisée	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrator " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύζευγμα  " Coated microtiter plate " Microplaca sensibilizada
CON+  CON-  CAL  RC	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Controle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugé "Konjugat "Conjugado "Micropiastra rivestita "Microplaque sensibilisée "Beschichtete Mikrotiterplatte	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugado " Σύζευγμα " Coated microtiter plate
CON+  CON-  CAL  RC  CONJ	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controlo positivo "Controllo negativo "Controllo Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugé "Konjugat "Conjugé "Konjugat "Conjugado "Micropiastra rivestita "Microplaçue sensibilisée "Beschichtete Mikrotiterplatte "Microplaçae revestida	"Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugate "Conjugato "Σύζευγμα  "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrator "Calibrator "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Konjugat "Conjugát "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Άρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύζευγμα  " Coated microtiter plate " Microplaca sensibilizada " Επικαλυμμένη μικροπλάκα " Wash buffer
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugato "Conjugát "Conjugát "Conjugato "Microplastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage	"Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugate "Conjugado "Σύζευγμα  "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα  "Wash buffer "Solución de lavado
CON+  CON-  CAL  RC  CONJ	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugát "Konjugat "Conjugato "Micropiastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Άρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύζευγμα  " Coated microtiter plate " Microplaca sensibilizada " Επικαλυμμένη μικροπλάκα " Wash buffer
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugato "Micropiastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem	Control Positivo  Θετικός ορός ελέγχου  * Negative Control Control Negativo Aρνητικός ορός ελέγχου  * Calibrator Calibrator Aντιδραστήριο βαθμονόμησης  * Recovery Recuperado Aνάκτηση  * Conjugate Conjugate Conjugado Σύζευγμα  * Coated microtiter plate Microplaca sensibilizada Eπικαλυμμένη μικροπλάκα  * Wash buffer Solución de lavado Pυθμιστικό διάλυμα πλύσης
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugát "Konjugat "Conjugato "Micropiastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer	"Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugate "Conjugado "Σύζευγμα  "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα  "Wash buffer "Solución de lavado
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugato "Micropiastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem	Control Positivo  Θετικός ορός ελέγχου  * Negative Control Control Negativo Aρνητικός ορός ελέγχου  * Calibrator Calibrator Aντιδραστήριο βαθμονόμησης  * Recovery Recuperado Aνάκτηση  * Conjugate Conjugate Conjugado Σύζευγμα  * Coated microtiter plate Microplaca sensibilizada Eπικαλυμμένη μικροπλάκα  * Wash buffer Solución de lavado Pυθμιστικό διάλυμα πλύσης
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperação "Conjugát "Conjugato "Conjugát "Conjugato "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaque revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solução de lavagem "Tampone substrato	Control Positivo  Θετικός ορός ελέγχου  * Negative Control Control Negativo Aρνητικός ορός ελέγχου  * Calibrator Calibrator Aντιδραστήριο βαθμονόμησης  * Recovery Recuperado Aνάκτηση  * Conjugate Conjugate Conjugate Conjugato  * Μίστορlaca sensibilizada Eπικαλυμμένη μικροπλάκα  * Wash buffer Solución de lavado Pυθμιστικό διάλυμα πλύσης  * Substrate buffer
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugáe "Konjugat "Conjugáe "Konjugat "Conjugado "Micropiastra rivestita "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  Aρνητικός ορός ελέγχου  * Calibrator  Calibrator  Aντιδραστήριο βαθμονόμησης  * Recovery  Recuperado  Aνάκτηση  * Conjugate  Conjugate  Conjugado  Σύζευγμα  * Coated microtiter plate  Microplaca sensibilizada  Επικαλυμμένη μικροπλάκα  * Wash buffer  Solución de lavado  Pυθμιστικό διάλυμα πλύσης  * Substrate buffer  Tampón sustrato
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Controllo negativo "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugato "Conjugato "Conjugat "Conjugat "Conjugat "Conjugat "Conjugat "Conjugat "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Substrato	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Άρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύξευγμα  " Coated microtiter plate " Microplaca sensibilizada " Επικαλυμμένη μικροπλάκα  " Wash buffer " Solución de lavado " Ρυθμιστικό διάλυμα πλύσης " Ταπρόη sustrato " Ρυθμιστικό διάλυμα υποστρώματος
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB	"Controllo positivo "Controle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Konjugat "Conjugát "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrato "Substrato "Reagente bloccante	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  * Αρνητικός ορός ελέγχου  * Calibrator  Calibrator  * Αντιδραστήριο βαθμονόμησης  * Recovery  * Recuperado  * Ανάκτηση  * Conjugate  * Conjugate  * Conjugato  * Σύξευγμα  * Coated microtiter plate  * Microplaca sensibilizada  * Επικαλυμμένη μικροπλάκα  * Wash buffer  * Solución de lavado  * Ρυθμιστικό διάλυμα πλύσης  * Substrate buffer  * Ταπρόη sustrato  * Ρυθμιστικό διάλυμα υποστρώματος  * Stop solution
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugát "Micropiastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substratu "Substratu "Reagente bloccante "Solution d'Arrêt	Control Positivo  Θετικός ορός ελέγχου  **Negative Control Control Negativo  **Aρνητικός ορός ελέγχου  **Calibrator Calibrator Aντιδραστήριο βαθμονόμησης  **Recovery Recuperado Aνάκτηση  **Conjugate Conjugate Conjugado Σύζευγμα  **Coated microtiter plate Microplaca sensibilizada Eπικαλυμμένη μικροπλάκα  **Wash buffer Solución de lavado Pυθμιστικό διάλυμα πλύσης  **Substrate buffer Tampón sustrato Pυθμιστικό διάλυμα υποστρώματος  **Stop solution Solución de parada
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugato "Microplastra rivestita Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrato "Reagente bloccante "Solution d'Arrêt "Stopreagenz	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  * Αρνητικός ορός ελέγχου  * Calibrator  Calibrator  * Αντιδραστήριο βαθμονόμησης  * Recovery  * Recuperado  * Ανάκτηση  * Conjugate  * Conjugate  * Conjugato  * Σύξευγμα  * Coated microtiter plate  * Microplaca sensibilizada  * Επικαλυμμένη μικροπλάκα  * Wash buffer  * Solución de lavado  * Ρυθμιστικό διάλυμα πλύσης  * Substrate buffer  * Ταπρόη sustrato  * Ρυθμιστικό διάλυμα υποστρώματος  * Stop solution
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé "Konjugat "Conjugé "Konjugat "Conjugado "Microplastra rivestita "Microplacar evestida "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrato "Reagente bloccante "Solution d'Arrêt "Stopreagenz "Solucão de paragem	Control Positivo Θετικός ορός ελέγχου  **Negative Control Control Negativo Aρνητικός ορός ελέγχου  **Calibrator Calibrator Aντιδραστήριο βαθμονόμησης  **Recovery Recuperado Aνάκτηση  **Conjugate Conjugate Conjugado Σύζευγμα  **Coated microtiter plate Microplaca sensibilizada Eπικαλυμμένη μικροπλάκα  **Wash buffer Solución de lavado Pυθμιστικό διάλυμα πλύσης  **Substrate buffer Tampón sustrato Pυθμιστικό διάλυμα υποστρώματος  **Stop solution Solución de parada Aντιδραστήριο διακοπής αντίδρασης
CON+  CON-  CAL  RC  RC  CONJ  MP  WASHB 50x  SUB	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugato "Conjugát "Conjugato "Micropiastra rivestita "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Substratuffer "Substrato "Reagente bloccante "Solucão de paragem "Tampone campione	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  "Αρνητικός ορός ελέγχου  * Calibrator  Calibrator  Aντιδραστήριο βαθμονόμησης  * Recovery  Recuperado  Ανάκτηση  * Conjugate  Conjugate  Conjugate  Microplaca sensibilizada  Επικαλυμμένη μικροπλάκα  * Wash buffer  Solución de lavado  Pυθμιστικό διάλυμα πλύσης  * Substrate buffer  Tampón sustrato  Pυθμιστικό διάλυμα υποστρώματος  * Stop solution  Solución de parada  Αντιδραστήριο διακοπής αντίδρασης  " Sample buffer
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	"Controllo positivo "Controle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Controllo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé "Konjugat "Conjugáe "Konjugat "Conjugado "Microplastra rivestita "Microplacu e sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Substrato "Reagente bloccante "Solucão de paragem "Tampone campione	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  Aρνητικός ορός ελέγχου  * Calibrator  Calibrator  Aντιδραστήριο βαθμονόμησης  * Recovery  Recuperado  Aνάκτηση  * Conjugate  Conjugate  Conjugate  Microplaca sensibilizada  Επικαλυμμένη μικροπλάκα  * Wash buffer  Solución de lavado  Pυθμιστικό διάλυμα πλύσης  * Substrate buffer  Tampón sustrato  Pυθμιστικό διάλυμα υποστρώματος  Stop solution  Solución de parada  Aντιδραστήριο διακοπής αντίδρασης  Sample buffer  Tampón Muestras
CON+  CON-  CAL  RC  RC  CONJ  MP  WASHB 50x  SUB	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugato "Conjugát "Conjugato "Micropiastra rivestita "Microplaque sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Substratuffer "Substrato "Reagente bloccante "Solucão de paragem "Tampone campione	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  "Αρνητικός ορός ελέγχου  * Calibrator  Calibrator  Aντιδραστήριο βαθμονόμησης  * Recovery  Recuperado  Ανάκτηση  * Conjugate  Conjugate  Conjugate  Microplaca sensibilizada  Επικαλυμμένη μικροπλάκα  * Wash buffer  Solución de lavado  Pυθμιστικό διάλυμα πλύσης  * Substrate buffer  Tampón sustrato  Pυθμιστικό διάλυμα υποστρώματος  * Stop solution  Solución de parada  Αντιδραστήριο διακοπής αντίδρασης  " Sample buffer
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	"Controllo positivo "Controle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Controllo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé "Konjugat "Conjugáe "Konjugat "Conjugado "Microplastra rivestita "Microplacu e sensibilisée "Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Substrato "Reagente bloccante "Solucão de paragem "Tampone campione	Control Positivo  Θετικός ορός ελέγχου  * Negative Control  Control Negativo  Aρνητικός ορός ελέγχου  * Calibrator  Calibrator  Aντιδραστήριο βαθμονόμησης  * Recovery  Recuperado  Aνάκτηση  * Conjugate  Conjugate  Conjugate  Microplaca sensibilizada  Επικαλυμμένη μικροπλάκα  * Wash buffer  Solución de lavado  Pυθμιστικό διάλυμα πλύσης  * Substrate buffer  Tampón sustrato  Pυθμιστικό διάλυμα υποστρώματος  Stop solution  Solución de parada  Aντιδραστήριο διακοπής αντίδρασης  Sample buffer  Tampón Muestras