











**REF 10902** 

**Protein S** 

# **Instruction Manual**

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Product Desc.	Protein S
Manual Rev. No.	001 : 2014-12-18

#### 1 Intended Use

**Protein S** is a solid phase enzyme immunoassay for the quantitative determination of Total and Free Protein S in citrated human plasma. The determination of Total and Free Protein S aids in the risk estimation of thrombosis.

# 2 Clinical Application and Principle of the Assay

Protein S is a vitamin K dependent glycoprotein of 70 kDa that is mainly synthesized by hepatocytes, but also by endothelial cells, Leydig cells in the testis, and megakaryocytes. In human plasma it is present at a concentration of 25 µg/ml and has a half-life of approximately two days. About 40 % of Protein S circulates in a functionally active free form, whereas 60 % is complexed with C4b-binding protein. Protein S plays an essential role in the Protein C anticoagulant system where the free Protein S functions as a cofactor of activated Protein C (aPC). Among the vitamin K dependent proteins Protein S has the highest affinity for negatively charged phospholipids and therefore increases the affinity of activated Protein C to membranes by forming a complex. This is of physiological importance since aPC inactivates preferentially the membrane-bound coagulation factors Va and VIIIa. Protein S deficiency may be inherited or acquired and increases the risk of thrombotic events such as deep vein thrombosis, pulmonary embolism, or thrombophlebitis. The prevalence of Protein S deficiency has been estimated to be up to one case per 300 in the general population. Nearly 50 % of individuals with inherited Protein S deficiency will experience a thrombotic event before the age of 45. Acquired Protein S deficiency occurs more frequently than the inherited form. Amongst others it can be found during oral anticoagulant therapy, oral contraceptive, pregnancy, liver disease, diabetes mellitus, chemotherapy and various inflammatory syndromes. Protein S deficiency is classified in three states. Type I deficiency is a reduction in the level of both Free and Total Protein S. Type II deficiency is characterized by a reduced Protein S activity, with normal antigen level. Type III deficiency corresponds to reduced antigen level and activity of Free Protein S only. To determine the type of defect, the laboratory diagnosis of Protein S may require antigen levels of both Free and Total Protein S and functional determination.

## Principle of the test

The Protein S is a sandwich ELISA using microplates coated with a capture antibody specific for human Protein S. 1:51 diluted patient plasma is incubated in the wells allowing Protein S present in the plasma to bind to the antibody. The unbound fraction is removed by washing. Afterwards anti-human Protein S detection antibody conjugated to horseradish peroxidase (conjugate) is incubated and reacts with the antigen-antibody complex on the microwell surface. Following incubation, unbound conjugate is washed off. Addition of TMB-substrate generates an enzymatic colorimetric (blue) reaction, which is stopped by diluted acid (color changes to yellow). The rate of color formation from the chromogen is measured in optical density units with a spectrophotometer at 450 nm. Using a curve prepared from the Reference Plasma provided wih the kit, the Protein S antigen relative percent concentration in patient plasma can be determined.



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# 3 Kit Contents

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)
Reference Plasma	3 x 0,4ml	White		Containing: lyophilized human plasma
Control N	3 x 0,2ml	White		Containing: lyophilized normal human plasma
Control D	3 x 0,2ml	White		Containing: lyophilized deficiant human plasma
	<u>'</u>	RE	ADY TO USE	
Item	Quantity	Cap color	Solution color	Description / Contents
PEG solution	2 x 2ml	Red	Colorless	olyethylene glycol, sodium azide < 0.1% (preservative)
Conjugate, IgG	1 x 15ml	Blue	Blue	Containing: anti-human Protein S antibody conjugated to horseradish peroxidase, bovine serum albumin (BSA)
TMB Substrate	1 x 15ml	Black	Colorless	Containing: Stabilized TMB/H2O2
Stop Solution	1 x 15ml	White	Colorless	Containing: 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 except for the Reference Plasma and the Controls are stable for 1 month at 4°C/39°F. After reconstitution the Reference Plasma and the Controls are stable for 8 hours when stored at 2-8°C/35-46°F. 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 normal 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! Buffers contain sodium azide ( $NaN_3$ ) as a preservative.  $NaN_3$  may be toxic if ingested or adsorbed by skin or eyes.  $NaN_3$  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.

The Reference Plasma and the Controls included in this kit have 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 Reference Plasma, Controls and patient samples as if capable of transmitting infectious diseases and according to national requirements.

#### 5.2 General directions for use

In case that the product information, including the labeling, is defective or incorrect please Do not mix or substitute reagents or microplates from different lot numbers. This may lead to variations in the results.

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 (20-26°C/68-78.8°F) before use, mix well and follow the recommended incubation scheme for an optimum performance of the test.

Incubation: We recommend test performance at 23°C/73.4°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 plasma samples freshly collected with 3.2% or 3.8% sodium citrate as an anticoagulant. Blood withdrawal must follow national requirements. Do not use icteric, lipemic, hemolysed or bacterially contaminated samples. Blood samples should be collected in clean, dry and empty tubes. After centrifugation, the plasma samples should be used immediately, otherwise stored tightly closed at 2-8°C/35-46°F up to eight hours, 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).

#### Reference Plasma:

Reconstitute Reference Plasma by adding 0.4 ml distilled water and shake gently. Allow the reconstituted plasma to stand for 10 minutes at room temperature before use. The Reference Plasma is stable for 8 hours when stored at 2-8°C/35-46°F.

#### Controls:

Reconstitute Control N and Control D by adding 0.2 ml distilled water and shake gently. Allow the reconstituted Controls to stand for 10 minutes at room temperature before use. The Controls are stable for 8 hours when stored at 2-8°C/35-46°F.

#### Pretreatment with polyethylene glycol (PEG) for Free Protein S determination:

Do not dilute plasma samples before PEG pretreatment. Add 15  $\mu$ I of PEG solution to 85  $\mu$ I patient plasma or Controls. To prepare the reference curve add 45  $\mu$ I of PEG solution to 255  $\mu$ I of the reconstituted Reference Plasma. Vortex the samples and place them on ice for 30 minu- tes. Following incubation centrifuge the samples for 10 minutes at 3000 x g. Prepare the refe- rence curve, the Control dilution and the sample dilution by using the supernatant as described as follows.

#### Predilution of the Reference Plasma for Total and Free Protein S determination:

For Total Protein S the predilution is prepared by using the reconstituted Reference Plasma. For Free Protein S the predilution is prepared by using the supernatant of the PEG-treated Reference Plasma. Prepare a 1:2 dilution of each reference plasma in prediluted sample buffer (1x) and mix well, e.g. 100 µl sample buffer + 100 µl plasma.

## Preparation of the reference curve:

Separate reference curves are used for Total and Free Protein S assays. The dilution sets are prepared by using the predilutions of the Reference Plasma for Total and Free Protein S, respectively.

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Volume Reference Plasma	Volume Sample Buffer	Reference Level
60 µl	1000 µl	150 %
40 µl	1000 µl	100 %
30 μΙ	1000 µl	75 %
20 μΙ	1000 µl	50 %
10 μΙ	1000 µl	25 %
10 μΙ	2000 μΙ	12.5 %

## **Dilution of the Samples and Controls:**

For Total Protein S: Add 20 µl plasma to 1000 µl sample buffer (1x) and mix well.

For Free Protein S: Add 20  $\mu$ I of supernatant of the PEG-treated plasma to 1000  $\mu$ I sample buffer (1x) and 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:

	1	2	3	4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Α	150	25	P1		
В	150	25	P1		
С	100	12.5	P2		
D	100	12.5	P2		
E	75	CD	P3		
F	75	CD	P3		
G	50	CN			
Н	50	CN			

150: Reference Level 150 %

50: Reference Level 50 %

P1: patient 1

100: Reference Level 100 %

25: Reference Level 25 %

CN: control ,normal plasma' P2: patient 2

CD: control ,deficient plasma

75: Reference Level 75 %

12.5: Reference Level 12.5 %

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/ qualitative interpretation results desired:			
	CONTROLS & SAMPLES			
3.	<ul> <li>Pipette 100 µl of each patient's diluted plasma into the designated microwells.</li> <li>Pipette 100 µl of each working dilution of the Reference Plasma and the diluted Controls into the designated wells.</li> </ul>			
4.	Incubate for 30 minutes at 20-26°C/68-78.8°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 20-26°C/68-78.8°F.			
8.	<b>WASHB</b> →	Wash 3x with 300 μl washing buffer (diluted 1:50).			
		SUBSTRATE			
9.	**************************************	Pipette 100 μl TMB substrate into each well.			
10.	30'	Incubate for 30 minutes at 20-26°C/68-78.8°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 reference curve by plotting the optical density (O.D.) of each dilution of the Reference Plasma (y-axis) against the corresponding value of the Reference Level in % (x-axis). For best results we recommend log/lin coordinates and 4-Parameter Fit. From the O.D. of each sample, read the corresponding patient relative value expressed in %. Multiply the patient relative value obtained from the reference curve by the assigned factor referred in the quality control leaflet to calculate the Protein S antigen level in % of normal.

## Example of a standard curve

We recommend pipetting each dilution of the Reference Plasma in parallel for each run.

Reference Level	OD 450/620 nm	Results (%)	CV % (Variation)
12.5 %	0.618	11.68	1.07
25 %	0.896	26.58	0.94
50 %	1.212	48.72	1.03
75 %	1.521	77.35	0.97
100 %	1.708	99.16	1.01
150 %	2.034	148.71	1.01

#### Example of calculation

Patient	Replicate	Mean	Patient relative	Factor	Patient Protein
	(OD)	(OD)	value (%)		S (%)
P 01	1.008/1.020	1.014	39.9	1.03	41.09
P 02	1.651/1.649	1.650	94.6	1.03	97.43

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.

#### **Expected values**

Free and Total Protein S values are expressed in relative percent (%) as compared to pooled normal plasma. For Total Protein S the value ranges usually between 60 % and 150 %, the normal range for Free Protein S is 50-130 %. Samples with values above the range of the reference curve may be assayed again at higher dilutions for accurate results. Each laboratory should establish its own normal range based upon its own techniques, controls, equipment and patient population according to their own established procedures.

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#### 9 Technical Data

Sample material: plasma

Sample volume: 20 µl plasma diluted 1:51 with 1x sample buffer

Total incubation time: 90 minutes at 20-26°C/68-78.8°F

Calibration range: 12.5-150 %

Analytical sensitivity: 6,0%

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 PROTEIN S gave an analytical sensitivity of 1.0 %.

#### 10.2 Clinical Performance

The microtitre plates are coated with a capture antibody specific for human Protein S. Free Protein S is isolated from complexed Protein S by precipitation with polyethylene glycol. In accordance with laboratory diagnostic recommendations, a sample was considered deficient in the analyte when less than 70% of the normal value was measured (Labor und Diagnose; editor L. Thomas; 8<sup>th</sup> edition 2012; Frankfurt/Main; Germany).

#### total Protein S

79 plasma samples have been tested on the Protein S for total Protein S and a predicate device.

	Predicate device			
total		Deficient	Normal	Total
Protein S	Deficient	23	0	23
	Normal	10	46	56
	Total	33	46	79

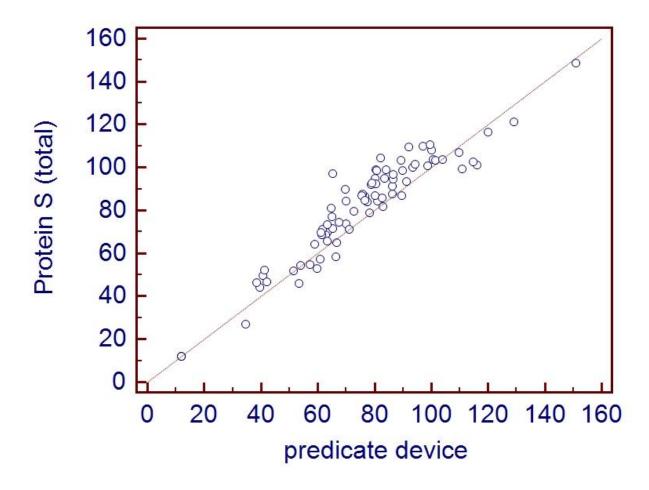
Overall percent agreement	87.3%	78.2% to 93.0%
Deficient percent agreement	69.7%	52.7% to 82.6%
Normal percent agreement	100%	92.3% to 100%

The correlation between the Protein S and the predicate device for total protein S resulted in a correlation coefficient of r=0.945.

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## Free Protein S

74 plasma samples have been tested on the Protein S for free Protein S and a predicate device.

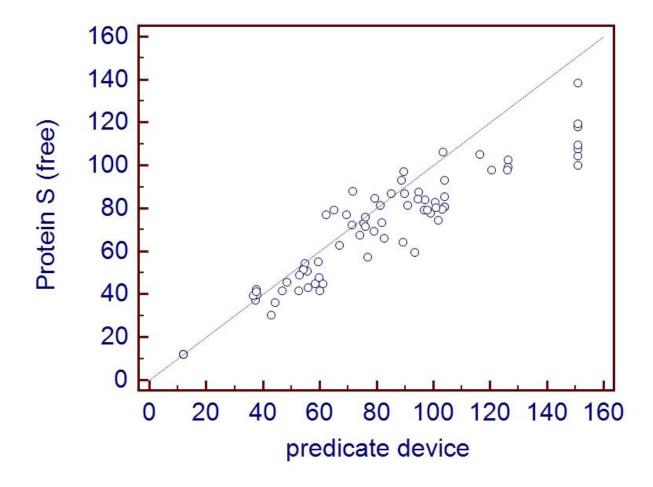
	Predicate device			
free		Deficient	Normal	Total
Protein S	Deficient	25	6	31
	Normal	3	40	43
	Total	28	46	74

Overall percent agreement	87.8%	78.5% to 93.5%
Deficient percent agreement	89.3%	72.8% to 96.3%
Normal percent agreement	86.7%	74.3% to 93.9%

The correlation between the Protein S and the predicate device for free protein S resulted in a correlation coefficient of r=0.926.



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# 10.3 Linearity

Chosen plasma have been tested with this kit and found to dilute linearly.

Sample	Dilution	Measured	Expected	Recovery
No.	Factor	%	%	(%)
1	1 / 50	115.17	120	95.98
	1 / 100	61.96	60	103.27
	1 / 200	29.54	30	98.47
	1 / 400	14.91	15	99.40
2	1 / 50	43.33	40	108.33
	1 / 100	20.41	20	102.05
	1 / 200	9.58	10	95.80
	1 / 400	4.69	5	93.80



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#### 10.4 Precision

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

Intra-assay			
Sample No.	Mean %	CV (%)	
1	115.0	2.9	
2	92.0	1.1	
3	44.0	1.4	

Inter-assay		
Sample No.	Mean %	CV (%)
1	120.6	4.7
2	44.5	4.9
3	9.2	9.8

# 10.5 Calibration

This quantitative assay is calibrated against the WHO second international standard for Protein S. The values are given in relative percent (%) as compared to pooled normal plasma.

#### 11 Literature

Murdock PJ, Brooks S, Mellars G, Cheung G, Jacob D, Owens DL, Parmar M, Riddell A (1997). A simple monoclonal antibody based ELISA for free protein S. Comparison with PEG precipitation. Clinical and Laboratory Haematology 19: 111-114.

**Deutz-Terlouw PP, Ballering L, van Wijngaarden A, Bertina RM (1989).** Two ELISA's for measurement of protein S, and their use in the laboratory diagnosis of Protein S deficiency. Clinica Chimica Acta 186: 321-334.

**Persson KEM, Hillarp A, Dahlbäck B (2001).** Analytical considerations for free protein S assays in protein S deficiency. Thrombosis and Haemostasis 86: 1144-1147.

**Walker FJ (1984)**. Protein S and the regulation of activated protein C. Seminars in Thrombosis and Hemostasis 10: 131-138.

**Preissner KT (1990).** Biological relevance of the Protein C system and laboratory diagnosis of Protein C and S deficiencies. Clinical Science 17: 351-364.

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CON +  CON -  CAL	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Control negativo "Calibratore "Etalon "Kalibrator "Calibrador	" Control Positivo " Θετικός ορός ελέγχου " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης
CON +  CON -  CAL	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control  " Control Negativo  " Αρνητικός ορός ελέγχου  " Calibrator  " Calibrador  " Αντιδραστήριο βαθμονόμησης
CON +	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado
CON +  CON -  CAL	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση
CON +  CON -  CAL  RC	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrator "Calibrator "Calibrator "Recupero "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση
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	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo Négatif "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 " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση
CON +  CON -  CAL  RC	"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 "Konjugat "Conjugado	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control  " Control Negativo  " Αρνητικός ορός ελέγχου  " Calibrator  " Calibrador  " Αντιδραστήριο βαθμονόμησης  " Recovery  " Recuperado  " Ανάκτηση  " Conjugate  " Conjugado  " Σύζευγμα
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  " Calibrator  " Αντιδραστήριο βαθμονόμησης  " Recovery  " Recuperado  " Ανάκτηση  " Conjugate  " Conjugate  " Conjugato  " 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 "Conjugáto "Conjugáto "Konjugat "Conjugato "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  " Conjugado  " Σύζευγμα  " Coated microtiter plate  " Microplaca sensibilizada
CON +  CON -  CAL  RC	"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  " Calibrator  " Αντιδραστήριο βαθμονόμησης  " Recovery  " Recuperado  " Ανάκτηση  " Conjugate  " Conjugate  " Conjugato  " 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 "Conjugáto "Conjugáto "Konjugat "Conjugato "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  CONJ  MP	"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  " Calibrator  " Αντιδραστήριο βαθμονόμησης  " Recovery  " Recuperado  " Ανάκτηση  " Conjugate  " Conjugate  " Conjugato  " Σύζευγμα  " Coated microtiter plate  " Microplaca sensibilizada
CON+  CON-  CAL  RC  CONJ  MP	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controlo positivo "Controllo negativo "Controle 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	" 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 " Μicroplaca sensibilizada " Επικαλυμμένη μικροπλάκα
CON+  CON-  CAL  RC  CONJ  MP	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugat Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio	" 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 " Μίcroplaca sensibilizada " Επικαλυμμένη μικροπλάκα
CON+  CON-  CAL  RC  CONJ	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo positivo Controllo negativo Controllo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Micropiastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage	" Control Positivo  " Θετικός ορός ελέγχου  " Negative Control  " Control Negativo  " Αρνητικός ορός ελέγχου  " Calibrator  " Calibrador  " Αντιδραστήριο βαθμονόμησης  " Recovery  " Recuperado  " Ανάκτηση  " Conjugate  " Conjugate  " Conjugato  " Σύζευγμα  " Coated microtiter plate  " Μίcroplaca sensibilizada  " Επικαλυμμένη μικροπλάκα  " Wash buffer  " Solución de lavado
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 "Konjugat "Conjugato "Micropiastra rivestita "Microplacar sevestida "Beschichtete Mikrotiterplatte "Microplacar revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	"Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controlo positivo "Controlo Regativo "Controle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperação "Conjugato "Conjugato "Conjugato "Conjugato "Konjugat "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 "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugate "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Pυθμιστικό διάλυμα πλύσης "Substrate buffer
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 "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 "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 "Pυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato
CON+  CON-  CAL  RC  CONJ  MP	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugato Micropiastra rivestita Microplacu e sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugate "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Pυθμιστικό διάλυμα πλύσης "Substrate buffer
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugát Konjugat Conjugát Conjugat Conjugato Microplastra rivestita Microplacu e sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Pυθμιστικό διάλυμα υποστρώματος
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugé Konjugat Conjugado Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substratu Substrato Reagente bloccante	" Control Positivo " Θετικός ορός ελέγχου  " Negative Control " Control Negativo " Αρνητικός ορός ελέγχου  " Calibrator " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύζευγμα  " " Coated microtiter plate " Μίcroplaca 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 Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controle Négatif Negativ Kontrolle Control negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante Solution d'Arrêt	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Aντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Pυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugé Konjugat Tonjugado Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampon e 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 " Calibrador " Αντιδραστήριο βαθμονόμησης  " Recovery " Recuperado " Ανάκτηση  " Conjugate " Conjugate " Conjugato " Σύζευγμα  " " Coated microtiter plate " Μίcroplaca 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 Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controle Négatif Negativ Kontrolle Control negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante Solution d'Arrêt	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Aντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Pυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON+  CON-  CAL  RC  CONJ  MP  WASHB 50x  SUB	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugé Konjugat Tonjugado Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampon e 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 "Aντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Pυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	"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 "Microplastra rivestita Microplacar evestida "Beschichtete Mikrotiterplatte "Microplacar revestida "Tampone di lavaggio "Tampon de Lavage "Waschpuffer "Solucão de lavagem "Tampone substrato "Substrat "Reagente bloccante "Solucão de paragem "Solucão de paragem "Solucão de paragem "Solucão de paragem	"Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Aντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "Conjugate "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Αντιδραστήριο διακοπής αντίδρασης
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo positivo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Conjugato Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Reagente Solution d'Arrêt Stopreagenz 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 "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό 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 Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugáe Konjugat 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 Solutão 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 "Conjugate "Conjugate "Conjugato "Σύζευγμα "Costed microtiter plate "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 "Tampón Muestras