









# INSTRUCTION MANUAL

AESKULISA Vasculitis-Screen

Ref 3323











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Product Ref.	3323
Product Desc.	Vasculi is-Screen
Manual Rev. No.	003 : 2015-04-23

# **Instruction Manual**

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#### 1 Intended Use

**AESKULISA Vasculitis-Screen** is a solid phase enzyme immunoassay for the combined quantitative and qualitative detection of antibodies against PR3 and MPO in human serum. Each well is coated with native human proteinase 3 (PR3) plus native myeloperoxidase (MPO), both highly purified from human peripheral blood polymorphnuclear cells. Anti-PR3 and anti-MPO antibodies recognize specificially conformational epitopes only accessible on the native target antigen.

The assay is an aid in the differential diagnosis of autoimmune vasculitis.

# 2 Clinical Application and Principle of the Assay

Antibodies against myeloperoxidase (MPO) and proteinase 3 (PR3) belong to the group of anti-neutrophil cytoplasmic antibodies (ANCA) which are directed against cytoplasmic components of neutrophilic granulocytes and monocytes. Indirect immunofluorescence test on ethanol-fixed neutrophils has been the established method for the detection of ANCAs. It became apparent that some ANCAs create a cytoplasmic fluorescence pattern (thus called cANCA) while others create a perinuclear pattern (the pANCA). As both patterns may cover multiple antigens, immunofluorescence is not suitable for a satisfying differential diagnosis of vasculitis; thus each IFT should be verified with specific ELISA tests.

While proteinase 3 is the main antigen specific for cANCA the main antigen for pANCA has been identified as MPO but other cellular components (lactoferrin, cathepsin G, elastase e.g.) may cause perinuclear staining.

MPO is an enzyme from the primary granules of neutrophils with a molecular weight of approximately 140 kDa. Its highly negativ charge may be relevant for the location at positivly charged structures such as the nuclear membrane and DNA thus responsible for the perinuclear staining pattern of anti-MPO antibodies in patients`sera in IFT using ethanol-fixed neutrophils.

PR3 is a serine protease from the azurophile granules (lysosomes) of neutrophils with a molecular weight of 29 kDa. The cationic protein has a proteolytic activity to elastin, hemoglobin and collagen VII. In addition, PR3 promotes the activation of platelets by cathepsin G and inactivates the C1-inhibitor.

ANCA are important markers for the differential diagnosis of autoimmune vasculitis. Anti-PR3 are a specific serological marker for Wegener's granulomatosis (WG) and may play an active role in the pathogenesis of WG. Anti-PR3 titers are strongly associated with disease activity and inhibit the proteolytic activity of PR3. Anti-MPO are correlated with idiopathic or vasculitis associated necrotizing crescentic glomerulonephritis and are found frequently in 70% of patients with microscopic polyangiitis, and 5-50% of patients with Churg-Strauss syndrome.

#### 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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# 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)
	·	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)
Cut-off Calibrator	1 x 1.5ml	Blue	Yellow	Human serum (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Calibrators	6 x 1.5ml	White	Yellow *	Concentration of each cal brator: 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 tetramethy benzidine 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.

#### 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 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  $(NaN_3)$  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.

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  $\mu$ l 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		

#### For *QUALITATIVE* interpretation

	1	2	3	4
Α	NC	P2		
В	NC	P2		
С	СС	P3		
D	СС	P3		
E	PC			
F	PC			
G	P1			
Н	P1			

CalA: calibrator A

CalB: calibrator B

CalC: calibrator C

CalD: calibrator D

CalE: calibrator E

CalF: calibrator F

PC: positive control

NC: negative control

CC: cut-off calibrator

P1: patient 1

P2: patient 2

P3: patient 3

# 7.3 Test Steps

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- 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.



Pipette into the designated wells as described in chapter 7.2 above, 100 µl of either:

- a. Calibrators (CAL.A to CAL.F) for QUANTITATIVE or
- b. Cut-off Calibrator (CC) for QUALITATIVE interp.

and 100 µl of each of the following:

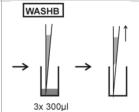
- Negative control (NC) and Positive control (PC), and
  - Patients diluted serum (P1, P2...)

4.



Incubate for 30 minutes at 20-32°C/68-89.6°F.

5.



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.	<b>WASHB</b> →	Wash 3x with 300 μl washing buffer (diluted 1:50).		
		SUBSTRATE		
9.	*** SUB ********************************	Pipette 100 μl TMB substrate into each well.		
10.	30'	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 and Qualitative 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

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Calibrators IgG	OD 450/620 nm	CV % (Variation)
0 U/ml	0.101	4.1
3 U/ml	0.225	1.9
10 U/ml	0.380	4.3
30 U/ml	0.732	0.9
100 U/ml	1.277	0.8
300 U/ml	2.150	0.5

#### Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	1.405/1.383	1.394	110.8
P 02	0.909/0.931	0.920	49.3

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.

For **qualitative interpretation** read the optical density of the cut-off calibrator and the patient samples. Compare patient's OD with the OD of the cut-off calibrator. For qualitative interpretation we recommend to consider sera within a range of 20% around the cut-off value as equivocal. All samples with higher ODs are considered positive, samples with lower ODs are considered negative.

Negative: OD patient < 0.8 x OD cut-off

Equivocal:  $0.8 \times OD \text{ cut-off} \leq OD \text{ patient } \leq 1.2 \times OD \text{ cut-off}$ 

Positive: OD patient > 1.2 x OD cut-off



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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 AESKULISA Vasculitis Screen gave an analytical sensivity of 1.0 U/ml.

# 10.2 Specificity and sensitivity

The microplates are coated with native human proteinase 3 and native human myeloperoxidase highly purified from human neutrophil granulocytes. No crossreactivities to other autoantigens have been found. The diagnostic specificity of PR3 antibodies for Wegener's Granulomatosis is >95%. The diagnostic sensitivity of PR3 antibodies for active Wegener's Granulomatosis is 90% and 75% in the absence of renal involvement.

Anti-MPO are found frequently in 70% of patients with microscopic polyangiitis, and 5-50% of patients with Churg-Strauss syndrome.

# 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 No.	Dilution Factor	Measured (U/ml)	Expected (U/ml)	Recovery (%)
1	1 / 100	218.0 <sup>°</sup>	220.0	99.1
	1 / 200	105.0	110.0	95.5
	1 / 400	51.4	55.0	93.5
	1 / 800	25.3	27.5	92.0
2	1 / 100	112.6	115.0	97.9
	1 / 200	56.3	57.5	97.9
	1 / 400	27.1	28.8	94.1
	1 / 800	13.4	14.4	93.1



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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.

Intra-assay		
Sample No.	Mean (U/ml)	CV (%)
1	211.4	3.2
2	118.9	2.9
3	88.9	1.5

Inter-assay		
Sample No.	Mean (U/ml)	CV (%)
1	209.4	3.4
2	120.9	2.5
3	94.3	2.8

# 10.5 Calibration

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

#### 11 Literature

**Falk, RJ Jennette JC (1988)**. Antineutrophil cytoplasmic autoantibodies with specificity for myeloperoxidase in patients with systemic vasculitis and idiopathic necrotizing and crescentic glomerulonephritis. N Engl J Med 318: 1651-1657.

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Goldschmeding R, van der Schoot CE, ten Bokkel Huinink D, et al. (1989) Wegener's granulomasis autoantibodies identify a novel di isopropylfluorphosphate-binding protein in the lysaomes of human neutrophils. J Clin Invest 84: 1577-1587.

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	- Diagnosi in vitro	- For in vitro diagnostic use
IVD	- Pour diagnostic in vitro	- Para uso diagnóstico in vitro
	- In Vitro Diagnostikum	- In Vitro Δηταγλφζ ηηθό κέζο
	- Para uso Diagnóstico in vitro	
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	"Conformità europea	" EC Declaration of Conformity
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7	" Europäische Konformität	¨Εσρφπαχθή ζσκθφλία
	" Déclaração CE de Conformidade	
	" 96 determinazioni	" 96 tests
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\_/	" 96 Bestimmungen	¨96 προζδηφρηζικοί
<b>V</b> 90	" 96 Testes	
	"Rispettare le istruzioni per l'uso	" See instructions for use
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O-+8°C		"Store at 2-8°C (35-46°F)
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+20-	"Lagerung bei 2-8°C	¨ Φσιάζ ζεηαηζηρσς 2-8°C
	" Conservar entre 2-8°C	
	" Prodotto da	" Manufactured by
	" Fabriqué par	"Fabricado por
	Hergestellt von	" Καηαζ θεσάδεημηαπό
	"Fabricado por	.,
	Calibratore cut-off	" Cut off Calibrator
CO-CAL	Etalon Seuil	"Calibrador de cut-off
	Grenzwert Kalibrator	" Ορηφθός ορός Αληγιδραζηήρην βαζκολόκεζες
	" Calibrador de cut-off	
	* Controllo positivo	* Positive Control
CONIT		"Positive Control "Control Positivo
CON+	"Controllo positivo	
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CON+	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Contrôle Négatif	¯ Control Positivo ¯ Θεηθός ορός ειέ γτοσ ¯ Negative Control ¯ Control Negativo
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CON +  CAL	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador
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	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληφραζηρηφ βαζκολόκεζες " Recovery
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	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληφραζηήριφ βαζκολόκεζες " Recovery " Recuperado
	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperação	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληφραζηριφ βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε
RC	Controllo positivo Controle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Calibrator Recupero Corrélation Wiederfindung Recuperacão Coniugato	"Control Positivo "Θεηθός ορός ειέ γτοσ "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ "Calibrator "Calibrator "Aλητροζηήρτο βαζκολόκεζες "Recovery "Recuperado "Αλάθτεζε "Conjugate
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 Coniugato Conjugé	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζηήρη βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε " Conjugate " Conjugate
	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugé Konjugat	"Control Positivo "Θεηθός ορός ειέ γτοσ "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ "Calibrator "Calibrator "Aλητροζηήρτο βαζκολόκεζες "Recovery "Recuperado "Αλάθτεζε "Conjugate
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Konjugat	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζηήρη βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε " Conjugate " Conjugate
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo Negatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Micropiastra rivestita	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζηήρη βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε " Conjugate " Conjugate
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Konjugat	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληφραζ ήρηφ βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζ ε " Conjugate " Conjugate " Conjugado " Σύδεσγκα
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo Negatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Micropiastra rivestita	"Control Positivo "Θεηθός ορός ειέ γτοσ "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ "Calibrator "Calibrator "Αληφραζηρηφ βαζκολόκεζες "Recovery "Recuperado "Αλάθης ζε "Conjugate "Conjugado "Σύδεσγκα "Coated microtiter plate
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo negativo Controlo Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibratore Etalon Kalibrator Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrator  "Aληφραζηρηφ βαζκολόκεζες  "Recovery "Recuperado  "Αλάθης ζε  "Conjugate "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "Microplaca sensibilizada
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugáo Micropiastra rivestita Microplaça revestida	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  "Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrator  "Αληφραζηρηφ βαζκολόκεζες  "Recovery  "Recuperado  "Αλάθης ζε  "Conjugate  "Conjugate  "Conjugado  "Σύδεσγκα  "Coated microtiter plate  "Microplaca sensibilizada  "Επηθαισ κκέλε κηθροπιάθα
RC CONJ	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo positivo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugát Conjugato Micropiastra rivestita Microplaçue sensibilisée Beschichtete Mikrotiterplatte Microplaça revestida Tampone di lavaggio	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζ ηήριφ βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε " Conjugate " Conjugate " Conjugado " Σύδεσγκα " "Coated microtiter plate " Microplaca sensibilizada " Επιθαισ κκέλε κιθροπιάθα " Wash buffer
RC CONJ	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controlo negativo Calibratore Etalon Kalibrator Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  "Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrador  "Αληφοζ ήρφ βαζκολόκεζες  "Recovery  "Recuperado  "Αλάθης ζ ε  "Conjugate  "Conjugate  "Conjugado  "Σύδεογκα  "Coated microtiter plate  "Microplaca sensibilizada  "Επηθαισκκέλε κηθροπιάθα  "Wash buffer  "Solución de lavado
RC	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controllo negativo Controllo negativo Controllo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζ ηήρη βαζκολόκεζες " Recovery " Recuperado " Αλάθη ζε " Conjugate " Conjugate " Conjugado " Σύδεσγκα " "Coated microtiter plate " Μicroplaca sensibilizada " Επηθαισ κκέλε κηθροπιάθα " Wash buffer
RC CONJ	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 Conjugát Conjugát Microplastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  "Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrador  "Αληφραζ ήρηφ βαζκολόκεζες  "Recovery  "Recuperado  "Αλάθης ζ ε  "Conjugate  "Conjugate  "Conjugado  "Σύδεσγκα  "Coated microtiter plate  "Microplaca sensibilizada  "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer  "Solución de lavado  "Ροζκης ηθό δηψι σκα πτύ ζες
RC CONJ MP WASHB 50x	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo negativo Controlo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  "Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrator  "Αληφραζ ηήρηφ βαζκολόκεζες  "Recovery  "Recuperado  "Αλάθης ζε  "Conjugate  "Conjugate  "Conjugado  "Σύδεσγκα  "Coated microtiter plate  "ΜίστορΙαca sensibilizada  "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer  "Solución de lavado  "Ροζκης ηφό δησι σκα πιύ ζες  "Substrate buffer
RC CONJ MP WASHB 50x	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo positivo Controlo Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Widedrfindung Recuperacão Conjugato Conjugát Konjugát Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control  "Control Negativo  "Αρλεηθός ορός ειέ γτοσ  "Calibrator  "Calibrador  "Αληφραζ ήρηφ βαζκολόκεζες  "Recovery  "Recuperado  "Αλάθης ζ ε  "Conjugate  "Conjugate  "Conjugado  "Σύδεσγκα  "Coated microtiter plate  "Microplaca sensibilizada  "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer  "Solución de lavado  "Ροζκης ηθό δηψι σκα πτύ ζες
RC CONJ	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo negativo Controlo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Αληφραζηρηφ βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "ΜίστορΙαςα sensibilizada "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκης ηθό δημι σκα πιύ ζες "Substrate buffer
RC CONJ MP WASHB 50x	Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Controlo positivo Controlo Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Widedrfindung Recuperacão Conjugato Conjugát Konjugát Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat	Control Positivo Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Aληφραζηρηφ βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugato "Σύδεργκα  "Coated microtiter plate "Microplaca sensibilizada "Επήθαιο κκέλε κήφροπιάθα  "Wash buffer "Solución de lavado "Ροζκή ηθό δήμι σκα πιύ ζες "Substrate buffer "Tampón sustrato
RC CONJ MP WASHB 50x	Controllo positivo Controlle Positif Positiv Kontrolle Controlo positivo Controllo positivo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugát Konjugat Conjugát Microplastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato	" Control Positivo " Θεηθός ορός ειέ γτοσ " Negative Control " Control Negativo " Αρλεηθός ορός ειέ γτοσ " Calibrator " Calibrador " Αληθραζ ηήρη βαζκολόκεζες " Recovery " Recuperado " Αλάθης ζε " Conjugate " Conjugate " Conjugato " Σύδεσγκα " " Coated microtiter plate " Microplaca sensibilizada " Επηθαίο κκέλε κήθροπιάθα " Wash buffer " Solución de lavado " Ροζκής ηθό δήφι σκα πιύ ζες " Substrate buffer " Ταπρόη sustrato " Ροζκής ηθό δήφι σκα σποζ ηρώκαηρς
RC CONJ MP WASHB 50x SUB	Controllo positivo Controlle Positif Positiv Kontrolle Controllo positivo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wideerfindung Recuperacão Conjugát Conjugát Konjugat Conjugát Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante	Control Positivo  Θεηθός ορός ειέ γτοσ  Negative Control  Control Negativo  Αρλεηθός ορός ειέ γτοσ  Calibrator  Calibrador  Αληθραζηήρη βαζκολόκεζες  Recovery  Recuperado  Αλάθης ζε  Conjugate  Conjugate  Conjugado  Σύδεογκα  "Coated microtiter plate  Microplaca sensibilizada  Επηθαισκέλε κήθροπιάθα  "Wash buffer  Solución de lavado  Pοζκή ηθό δήμι σκα πτύ ζες  "Substrate buffer  "Tampón sustrato  Pοζκή ηθό δήμι σκα στιοζηρώκατρς  "Stop solution
RC CONJ MP WASHB 50x SUB	Controllo positivo Controlle Positif Positiv Kontrolle Controllo positivo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugát Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrador "Αληδραζηήρη βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugato "Σύδεργκα  "Coated microtiter plate "Microplaca sensibilizada "Επηθαίσ κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκής ηθό δηφι σκα πιύ ζες "Substrate buffer "Tampón sustrato "Ροζκής ηθό δηφι σκα σποζηρώκατρς "Stop solution "Solución de parada
RC CONJ MP WASHB 50x	Controllo positivo Controlle Positif Positiv Kontrolle Controllo positivo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugát Conjugát Conjugát Micropiastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrato Reagente bloccante Solution d'Arrêt Stopreagenz	Control Positivo  Θεηθός ορός ειέ γτοσ  Negative Control  Control Negativo  Αρλεηθός ορός ειέ γτοσ  Calibrator  Calibrador  Αληθραζηήρη βαζκολόκεζες  Recovery  Recuperado  Αλάθης ζε  Conjugate  Conjugate  Conjugado  Σύδεογκα  "Coated microtiter plate  Microplaca sensibilizada  Επηθαισκέλε κήθροπιάθα  "Wash buffer  Solución de lavado  Pοζκή ηθό δήμι σκα πτύ ζες  "Substrate buffer  "Tampón sustrato  Pοζκή ηθό δήμι σκα στιοζηρώκατρς  "Stop solution
RC CONJ MP WASHB 50x SUB	Controllo positivo Controlle Positif Positiv Kontrolle Controllo negativo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugé Konjugat Conjugé Konjugat Microplacy esensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavagei Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante Solucão de paragem Solucão de paragem	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrador "Αληφραζηρηφ βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "Μicroplaca sensibilizada "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκής ηθό δηθι σκα πτύ ζες "Substrate buffer "Τampón sustrato "Ροζκής ηθό δηθι σκα σποζηρώκαηρς "Stop solution "Solución de parada "Αληφραζηρηφ δηθοπής αληδραζες
RC CONJ MP WASHB 50x SUB	Controllo positivo Controlle Positif Positiv Kontrolle Controllo negativo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavagei Waschpuffer Solucão de lavagem Tampone substrato Substrat Substratue Reagente bloccante Solucão de paragem Tampone campione	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Aληθραζ ηήρηφ βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugato "Σύδεσγκα  "Coated microtiter plate "Μίστορlaca sensibilizada "Επηθαιο κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκής ηθό δήφι σκα πιύ ζες "Substrate buffer "Tampón sustrato "Ροζκής ηθό δήφι σκα σποζ ηρώκατρς "Stop solution "Solución de parada "Αληθραζ ηήρηφ δηφθοπής αληδραζες "Sample buffer
RC CONJ MP WASHB 50x SUB STOP	Controllo positivo Controlle Positif Positiv Kontrolle Controllo positivo Controllo positivo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Conjugát Conjugát Conjugát Conjugato Conjugát Conjugát Conjugát Conjugát Conjugát Conjugáto Conjugát Conjugát Conjugáto Conjugát Conjugáto C	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Aληφραζηρηφ βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "ΜίστορΙας sensibilizada "Επηθιοι κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκής ηθό δήφι σκα πιύ ζες  "Substrate buffer "Τampón sustrato "Ροζκής ηθό δήφι σκα σποζηρώκατρς "Stop solution "Solución de parada "Αληφραζηρηφ δηφθοπής αληδραζες "Sample buffer "Tampón Muestras
RC CONJ MP WASHB 50x SUB	Controllo positivo Controlle Positif Positiv Kontrolle Controllo negativo Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavagei Waschpuffer Solucão de lavagem Tampone substrato Substrat Substratue Reagente bloccante Solucão de paragem Tampone campione	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Calibrador "Αληθραζ ηἡρηφ βαζκολόκεζες "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "ΜίστορΙαςα sensibilizada "Επηθαισ κκέλε κηθροπιάθα  "Wash buffer "Solución de lavado "Ροζκής ηθό δήτη σκα πηύ ζες "Substrate buffer "Tampón sustrato "Ροζκής ηθό δήτη σκα σποζ γρώκατρς "Stop solution "Solución de parada "Αληφραζ ηήρηφ δητηθοπής αληδραζες "Sample buffer
RC CONJ MP WASHB 50x SUB STOP	Controllo positivo Controlle Positif Positiv Kontrolle Controllo positivo Controllo positivo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Conjugát Conjugát Conjugát Conjugato Conjugát Conjugát Conjugát Conjugát Conjugát Conjugáto Conjugát Conjugát Conjugáto Conjugát Conjugáto C	Control Positivo  Θεηθός ορός ειέ γτοσ  "Negative Control "Control Negativo "Αρλεηθός ορός ειέ γτοσ  "Calibrator "Calibrator "Aληφραζηήρη βαζκολόκεζες  "Recovery "Recuperado "Αλάθης ζε  "Conjugate "Conjugate "Conjugado "Σύδεσγκα  "Coated microtiter plate "Μίστορlaca sensibilizada "Επήθαιο κκέλε κήθροπιάθα  "Wash buffer "Solución de lavado "Ροζκή ηθό δήφι σκα πιύ ζες  "Substrate buffer "Τampón sustrato "Ροζκή ηθό δήφι σκα σποζηρώκατρς "Stop solution "Solución de parada "Αληφραζηήρη δήφθοπής αληδραζες "Sample buffer "Tampón Muestras