

**REF 10309** 

**GBM** 









# **Instruction Manual**

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Product Desc.	GBM
Manual Rev. No.	004 : 2014-04-04

### 1 Intended Use

**GBM** is a solid phase enzyme immunoassay employing recombinant human glomerular basement membrane protein (GBM) for the quantitative detection of IgG antibodies against GBM in human serum.

The assay is an aid in the diagnosis of Goodpasture syndrome.

# 2 Clinical Application and Principle of the Assay

Goodpasture syndrome is an autoimmune disorder of the kidneys, named after Ernest Goodpasture, who was the first to describe the coexistence of a fatal lung hemorrhage coming along with proliferative glomerulonephritis.

Nowadays, this syndrome is considered to be an autoimmune disorder consisting of a triad of glomerulonephritis, lung hemorrhage and anti-glomerular basement antibodies formation.

Incidence of the Goodpasture syndrome ranges about 0.5 to 1 cases per million inhabitants per year. Goodpasture syndrome is of high medical emergency with a case fatality rate of 75 to 90 %, due to kidney and respiratory insufficiency, if not treated. The disorder is characterized histologically by continuous linear deposition of immunoglobulins along the glomerular basement membrane (GBM). Demonstration by direct immunofluorescence on kidney biopsies is possible.

Today, the determination of circulating autoantibodies against the C-terminus of the  $\alpha$ -3 chain of type IV collagen is the state-of-the art serology.

Glomerular basement membranes (GBM) are an anatomical barrier wherever epithelia meets connective tissue. Type IV collagen is exclusive to GBM and forms a matrix in which additional molecules (e.g. Laminin, Entactin) are integrated. Three out of six  $\alpha$ -chains (polypeptides with more than 1650 amino acids) are forming a triple helix and characterize the structural subunits of type IV collagen.

Goodpasture specific anti-GBM autoantibodies are directed against the 29 kDa NC1 domain of the  $\alpha$ -3 chain of type IV collagen of GBM. Following the characterization of the antigen, diagnosis is established today by demonstrating the triad of glomerulonephritis, lung hemorrhage and antibodies against the  $\alpha$ -3 chain of type IV collagen of GBM.

#### 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)
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  $\mu$ l) or adjustable multipipette (100-1000 $\mu$ l). Microplate washing device (300  $\mu$ l 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  → WASHB  → WASHB	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 20-32°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	0.049	0.0
3 U/ml	0.164	3.5
10 U/ml	0.332	2.1
30 U/ml	0.675	1.9
100 U/ml	1.387	1.7
300 U/ml	2.272	1.1

### Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	0.794/0.792	0.793	37.7
P 02	1.053/1.069	1.061	61.4

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 GBM gave an analytical sensivity of 1.0 U/ml.

# 10.2 Specificity and sensitivity

Anti-GBM antibodies show a diagnostic specificity of 98-99% for Goodpasture-syndrome. The diagnostic sensitivity of anti-GBM antibodies for Goodpasture-syndrome is 98-99%.

## 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	228.0	230.0	99.1
	1 / 200	110.0	115.0	95.7
	1 / 400	55.3	57.5	96.2
	1 / 800	26.3	28.8	91.3
2	1 / 100	89.0	91.0	97.8
	1 / 200	46.0	45.5	101.1
	1 / 400	23.4	22.8	102.6
	1 / 800	10.9	11.4	95.6



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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	225.0	2.4
2	78.4	3.1
3	24.8	1.5

Inter-assay		
Sample No.	Mean (U/ml)	CV (%)
1	215.0	3.4
2	75.3	4.5
3	23.6	2.9

# 10.5 Calibration

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

### 11 Literature

**Turner AN, Rees AJ (1998)**. Anti-glomerular basement membrane disease. In: Rapidly progressive glomerulonephritis. Pusey CD, Rees AJ, eds., Oxford University Press, Oxford.

**Kalluri R, Wilson CB, Weber M et al. (1995)**. Identification of the a3 chain of type IV collagen as the common autoantigen in anti basement membrane disease and Goodpasture syndrome. J Am Soc Nephrol 6: 1178-1185.

**Herody M, Bobrie G, Gouarin C et al. (1993)**. Anti GBM disease: predictive value of clinical, histological and serological data. Clin Nephrol 40: 249-255.

Г	- Diagnosi in vitro	- For in vitro diagnostic use
	-	- Para uso diagnóstico in vitro
IVD	- Pour diagnostic in vitro	
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CON +  CON -  CAL  RC	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugé	"Positive Control "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	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controllo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé "Konjugat	"Positive Control "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	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controllo negativo "Contrôle negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Coniugato "Conjugé "Konjugat	"Positive Control "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	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controllo negativo "Controllo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Konjugat "Conjugado "Micropiastra rivestita	"Positive Control "Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrador "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate
CON +  CON -  CAL  RC  CONJ	"Calibrador de cut-off "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 "Konjugat "Conjugato "Conjugato "Micropiastra rivestita "Microplaque sensibilisée	"Positive Control "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 "Microplaca sensibilizada
CON +  CON -  CAL  RC  CONJ	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugato "Conjugato "Conjugato "Micropiastra rivestita "Microplaçue sensibilisée "Beschichtete Mikrotiterplatte "Microplaça revestida	"Positive Control "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
CON+  CON-  CAL  RC  CONJ  MP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugát Konjugat Conjugato Micropiastra rivestita Microplaça sensibilisée Beschichtete Mikrotiterplatte Microplaça revestida Tampone di lavaggio	"Positive Control "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
CON+  CON-  CAL  RC  CONJ  MP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Conjugato Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado
CON +  CON -  CAL  RC  CONJ	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Controllo negativo Controlo negativo Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugé Konjugat Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer	"Positive Control "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
CON+  CON-  CAL  RC  CONJ  MP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Konjugat Beschichtete Mikrotiterplatte Microplaca revestida Tampone de Lavage Waschpuffer Solucão de lavagem	"Positive Control "Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrador "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "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	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Controllo negativo Contrôle Négatif Negativ Kontrolle Control negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Konjugat Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato	"Positive Control "Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugado "Σύζευγμα  "Coated microtiter plate "Μίcroplaca sensibilizada "Επικαλυμμένη μικροπλάκα  "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	"Calibrador de cut-off "Controllo positivo "Contrôle Positif "Positiv Kontrolle "Controlo positivo "Controlo negativo "Contrôle Négatif "Negativ Kontrolle "Controlo negativo "Calibratore "Etalon "Kalibrator "Calibrator "Calibrador "Recupero "Corrélation "Wiederfindung "Recuperacão "Conjugát "Conjugát "Conjugát "Conjugat "Konjugat "Microplastra rivestita "Microplaca revestida "Tampone di lavaggio "Tampone de lavagem "Tampone substrato	"Positive Control "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
CON +  CON -  CAL  RC  CONJ  MP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat	"Positive Control "Control Positivo "Θετικός ορός ελέγχου  "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου  "Calibrator "Calibrator "Αντιδραστήριο βαθμονόμησης  "Recovery "Recuperado "Ανάκτηση  "Conjugate "Conjugado "Σύζευγμα  "Coated microtiter plate "Μίcroplaca sensibilizada "Επικαλυμμένη μικροπλάκα  "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugato Conjugato Cinjugato Cinjugato Conjugato Con	"Positive Control "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 "Τampón sustrato "Pυθμιστικό διάλυμα υποστρώματος
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugát Conjugát Micropiastra rivestita Microplacue sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Reagente bloccante	"Positive Control "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
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugato Conjugato Conjugato 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'Arrét	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugát Conjugát Micropiastra rivestita Microplacue sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Reagente bloccante	"Positive Control "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
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugato Conjugato Conjugato 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'Arrét	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugé Konjugat Microplacar evestida Microplacar evestida Tampone di lavaggio Tampon e Lavage Waschpuffer Substrato Substrato Substrato Reagente bloccante Solution d'Arrêt Stopreagenz	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugé Konjugat Microplastra rivestita Microplaca revestida Tampone di lavage Waschpuffer Solucão de paragem Reagenz Cureagenz Consustrato Conjugé Konjugat Conjugát	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα  "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης  "Substrate buffer "Ταπρόη sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Αντιδραστήριο διακοπής αντίδρασης
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB  STOP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Konjugat Conjugat Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampone substrato Substrat Substrato Substrato Substrato Substrato Substrato Substrato Calibrador Recupero Corrélation Viederfindung Recuperação Conjugát Conjugát Conjugát Conjugát Substrato Substrat Substrato Substrato Substrato Substrato Substrato Reagente bloccante Solucão de paragem Tampone campione	"Positive Control "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 "Μicroplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Αντιδραστήριο διακοπής αντίδρασης "Sample buffer "Tampón Muestras
CON +  CON -  CAL  RC  CONJ  MP  WASHB 50x  SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugat Conjugato Conj	"Positive Control "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 "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Αντιδραστήριο διακοπής αντίδρασης "Sample buffer