AESKULISA a-Tg

Ref 3400













Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

Instruction Manual

Table of Contents

1	Intended Use	1
2	Clinical Application and Principle of the Assay	1
3	Kit Contents	2
4	Storage and Shelf Life	2
5	Precautions of Use	3
6	Sample Collection, Handling and Storage	4
7	Assay Procedure	4
8	Quantitative and Qualitative Interpretation	7
9	Technical Data	8
10	Performance Data	8
11	Literature	9



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1 Intended Use

AESKULISA a-Tg is a solid phase enzyme immunoassay employing highly purified human thyroglobulin (Tg) isolated from human thyroid tissue for the quantitative and qualitative detection of antibodies against Tg in human serum.

The assay is a tool in the diagnosis of autoimmune thyroid diseases.

2 Clinical Application and Principle of the Assay

Thyroglobulin (Tg) is a glycoprotein of high molecular weight (660kDa) localized within the colloid of the thyroid follicle. It plays an essential role in the storage of iodine and acts as substratum for the synthesis of iodinated thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3).

Tg is one out of three major thyroid autoantigens (besides thyroid peroxidase (TPO) and the TSH-receptor). Detecting autoantibodies to Tg today is an established tool for diagnosing chronic autoimmune thyroiditis as well as for the differential diagnosis of hypothyroidism including its subclinical or latent type.

Autoantibodies to Tg and TPO are important for ruling out autoimmune thyroid diseases, as over 98% of thyroiditis patients display autoantibodies to either one or both of these antigens. Anti-Tg is found in 30% of patients with Graves disease and 85% of patients with Hashimoto`s thyroiditis. Thus negative testing for anti-Tg and anti-TPO can virtually exclude a diagnosis of thyroiditis. These autoantibodies do also occur in patients with adenocarcinoma of the thyroid or hyperthyroidism.

Approximately 10% of healthy individuals have anti-Tg antibodies at low levels. A follow-up to a 20-year community study in England concluded that a primary risk factor to future autoimmune thyroid dysfunction was a positive thyroid autoantibody test. Therefore these antibodies have a predictive value, too.

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.



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

3 Kit Contents

		TO BE F	RECONSTITU	JTED
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)
		REA	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 calibrator: 0, 30, 100, 300, 1000, 3000 IU/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 ₂ O ₂)
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 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.



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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 (NaN₃) as a preservative. NaN₃ may be toxic if ingested or adsorbed by skin or eyes. NaN₃ 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.



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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).



Product Ref.		3400
	Product Desc.	a-Tg
	Manual Rev. No.	003 : 2013-10-10

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 CalD: calibrator D

CalB: calibrator B CalE: calibrator E

CalC: calibrator C CalF: calibrator F

PC: positive control P1: patient 1

NC: negative control P2: patient 2

CC: cut-off calibrator 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.	Pipette into the designated wells as described in chapter 7.2 above, 100 μl of either:		
	a. Calibrators (CAL.A to CAL.F) for <i>QUANTITATIVE</i> or b. Cut-off Calibrator (CC) for <i>QUALITATIVE</i> 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.	WashB → Wash 3x with 300 µl washing buffer (diluted 1:50).		



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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 IU/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 IU/ml.

	Normal Range	Equivocal Range	Positive Results
ſ	< 120 IU/ml	120 - 180 IU/ml	>180 IU/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 IU/ml	0.049	0.0
30 IU/ml	0.164	2.6
100 IU/ml	0.332	2.5
300 IU/ml	0.675	0.9
1000 IU/ml	1.387	0.0
3000 IU/ml	2.272	0.5

Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (IU/ml)
P 01	0.820/0.832	0.826	411.0
P 02	1.386/1.403	1.395	1008.0

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



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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: 0-3000 IU/ml

Analytical sensitivity: 10 IU/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 a-Tg gave an analytical sensivity of 10.0 IU/ml.

10.2 Specificity and sensitivity

The microplates are coated with highly purified human thyroglobulin (Tg). No crossreactivities to other autoantigens have been found. The specificity of anti-Tg antibodies is approximately 95%. Anti-Tg is found in 20-40% of patients with Graves disease and 60-85% of patients with Hashimoto`s thyroiditis.

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 (IU/ml)	Expected (IU/ml)	Recovery (%)
1	1 / 100	1529,0	1545,0	99,0
	1 / 200	764,0	773,0	98,8
	1 / 400	385,0	386,0	99,7
	1 / 800	184,0	193,0	95,3
2	1 / 100	853,0	849,0	100,6
	1 / 200	441,0	424,5	103,9
	1 / 400	220,0	213,3	103,6
	1 / 800	110,0	106,1	103,7



Product Ref.	3400
Product Desc.	a-Tg
Manual Rev. No.	003 : 2013-10-10

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 (IU/ml) CV (%)				
1	1874.0	4.7		
2	638.0	3.2		
3	244.0	4.1		

Inter-assay			
Sample No.	CV (%)		
1	1734.0	5.3	
2	568.0	2.8	
3	276.0	2.4	

10.5 Calibration

The AESKULISA a-Tg is calibrated against the international reference serum WHO 65/093. The results are expressed in IU/ml.

11 Literature

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STOP "Reagente bloccante" "Stop solution "Solution d'Arrêt" "Solución de parada "Stopreagenz "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Tampon Echantillons "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	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 Conjugát 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 "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
STOP "Reagente bloccante" "Stop solution "Solution d'Arrêt" "Solución de parada "Stopreagenz "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Tampon Echantillons "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	CON + CON - CAL RC CONJ MP WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controlo positivo Contrôle Négatif Negativ Kontrolle Controlo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Konjugat Microplacue sensibilisée Beschichtete Mikrotiterplatte Microplacue sensibilisée Beschichtete Mikrotiterplatte Microplacue sestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão 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 "Conjugado "Σύζευγμα "Coated microtiter plate "Μίcroplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης
STOP " Reagente bloccante " Stop solution " Solution d'Arrêt " Solución de parada " Stopreagenz " Αντιδραστήριο διακοπής αντίδρασης " Solucão de paragem " Sample buffer " Tampon campione " Sample buffer " Tampón Muestras " Ρυθμιστικό διάλυμα δειγμάτων	CON + CON - CAL RC CONJ MP WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo positivo Contrôle Negatif Negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugde Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampone de lavagem Tampone substrato	"Positive Control "Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Aρνητικός 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
STOP"Solution d'Arrêt""Solución de parada"Stopreagenz""Αντιδραστήριο διακοπής αντίδρασης"Solucão de paragem""Tampone campione""Sample buffer"Tampon Echantillons""Tampón Muestras"Probenpuffer"Ρυθμιστικό διάλυμα δειγμάτων	CON + CON - CAL RC CONJ MP WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de lavagem Tampone substrato Substrat Substrat	"Positive Control "Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Aρνητικός 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
"Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	CON + CON - CAL RC CONJ MP WASHB 50x	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Cariblador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Substrat 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 "Ρυθμιστικό διάλυμα υποστρώματος
"Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	CON + CON - CAL RC CONJ MP WASHB 50x SUB	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo negativo Controllo negativo Controllo negativo Controllo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Konjugat Conjugát Micropiastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solustrat Substrat Substrat Substrato Reagente bloccante Reagente bloccante Respente Controlle Respente Controlle Respente Conjugáto Conjugát Conjugáto Conjugáto Conjugáto Micropiastra rivestita Microplaca revestida Tampone de Lavage Vaschpuffer Solucão de lavagem Tampone substrato Substrat Reagente bloccante	"Positive Control "Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "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 "Tampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution
SB 5x "Tampone campione" "Sample buffer "Tampon Echantillons" "Tampón Muestras "Probenpuffer" "Ρυθμιστικό διάλυμα δειγμάτων	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 Konjugat Conjugát Micropiastra rivestita Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucăto de lavagem Tampone substrato Substrat Substrato Reagente bloccante Solution d'Arrêt	"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 "Επικάλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
SB 5χ Tampon Echantillons "Tampón Muestras "Ροθειρμίfer "Ρυθμιστικό διάλυμα δειγμάτων	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 Conjugát Microplastar rivestita Microplaca revestida Tampone di lavaggio Tampon e Lavage Waschpuffer Substrato Substrato Subtrato Subtrato Reagente bloccante Solution d'Arrêt Stopreagenz	"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 "Επικάλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Τampón sustrato "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada
SB SX "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	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 Conjugát Microplastar rivestita Microplaca revestida Tampone di lavaggio Tampon e Lavage Waschpuffer Substrato Substrato Subtrato Subtrato Reagente bloccante Solution d'Arrêt Stopreagenz	"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 "Επικάλυμμένη 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 Conjugát Conjugát Conjugát Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampon e Lavage Waschpuffer Substrato Substrato Substrato Reagente bloccante Solucão de paragem	"Positive Control "Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Αρνητικός ορός ελέγχου "Calibrator "Calibrator "Aντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Ανάκτηση "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
	CON + CON - CAL RC CONJ MP WASHB 50x SUB STOP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo positivo Contrôle Negatif Negativ Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Conjugát Conjugát Microplastra rivestita Microplaca revestida Tampone di lavaggio Tampone substrato Substrat Substrator Reagentz Reagentz 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 "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 διακοττής αντίδρασης "Sample buffer
	CON + CON - CAL RC CONJ MP WASHB 50x SUB STOP	Calibrador de cut-off Controllo positivo Contrôle Positif Positiv Kontrolle Controllo positivo Contrôle Négatif Negativ Kontrolle Controlo negativo Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugé Konjugat Conjugato Conjug	"Positive Control "Control Positivo "Θετικός ορός ελέγχου "Negative Control "Control Negativo "Aρνητικός 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 "Ρυθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Αντιδραστήριο διακοπής αντίδρασης "Sample buffer "Tampón Muestras