

REF 10240 Annexin V-GM











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 Interpretation	7
9	Technical Data	. 8
10	Performance Data	. 8
11	Literature	. 9



AIDA GmbH & Co. KG Dr.-Karl-Aschoff-Straße 9 D-55543 Bad Kreuznach Tel: +49-671-920 650 90 Fax: +49-671-920 650 91 info@aida-diagnostics.com www.aida-diagnostics.com



10240	Product Ref.
Annexin V-GM	Product Desc.
004 : 2015-07-16	Manual Rev. No.

1 Intended Use

Annexin V-GM is a solid phase enzyme immunoassay for the quantitative detection of IgG and/or IgM antibodies against Annexin V in human serum. The assay employs native human Annexin V.

The assay is a tool in the diagnosis of the antiphospholipid syndrome.

2 Clinical Application and Principle of the Assay

Antibodies targeting Annexin V belong to the family of antiphospholipid antibodies including for example anti-Cardiolipin, ß2-glycoprotein I (ß2-GPI) and Prothrombin antibodies and are associated with primary and secondary antiphospholipid syndrome (APS). Clinically, the APS is characterized by venous and arterial thrombosis and severe pregnancy complications.

Anti-Annexin V antibodies have been detected in patients with systemic autoimmune diseases, especially systemic lupus erythematosus, but have also been associated to intrauterine fetal loss, recurrent abortions and preeclampsia in APS patients.

Annexin V is a Ca2+-dependent, phospholipid-binding protein with potent anticoagulant activity that is abundant in cells exposed to blood, such as platelets, trophoblasts, and endothelial cells. The high concentration of annexin V in placental syncytiotrophoblasts has been proposed as a mechanism to maintain blood fluidity on the surfaces of the placenta and placental integrity. It therefore ensures supply of the foetus with nutrients and fetal viability.

Thrombosis and pregnancy loss in the antiphospholipid syndrome may be caused by disruption of this Annexin V shield by antiphospholipid antibodies leading to an increase in the quantity of thrombogenic phospholipids exposed to the circulating blood. Anti-Annexin V autoantibodies are supposed to interfere with the anticoagulant function of Annexin V causing placental thrombosis and disruption.

Consequently, the detection of anti-Annexin antibodies should be included in the serological diagnosis of APS especially in female patients at risk for obstetric complications.

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.



10240	Product Ref.
Annexin V-GM	Product Desc.
004 : 2015-07-16	Manual Rev. No.

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 IgM	1 x 15ml 1 x 15ml	Blue Green	Blue Green	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.

^{*} Color increasing with concentration

MATERIALS REQUIRED, BUT NOT PROVIDED

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

4 Storage and Shelf Life

Store all reagents and the microplate at 2-8°C/35-46°F, in their original containers. Once prepared, reconstituted solutions are stable at 2-8°C/35-46°F for 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.



10240	Product Ref.	
Annexin V-GM	Product Desc.	
004 : 2015-07-16	Manual Rev. No.	

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.	10240
Product Desc.	Annexin V-GM
Manual Rev. No.	004 : 2015-07-16

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).



10240	Product Ref.
Annexin V-GM	Product Desc.
004 : 2015-07-16	Manual Rev. No.

7.2 Pipetting Scheme

We suggest pipetting calibrators, controls and samples as follows:

NOTE: If IgG and IgM are determined in parallel, calibrators, controls and samples have to be done for each subclass separately.

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) for <i>QUANTITATIVE</i> 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.
 10240

 Product Desc.
 Annexin V-GM

 Manual Rev. No.
 004 : 2015-07-16

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.	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 ₄₅₀ OD ₆₂₀ 450/620 nm	Read absorbance at 450 nm (recommended 450/620 nm) within 30 minutes.		



10240	Product Ref.
Annexin V-GM	Product Desc.
004 : 2015-07-16	Manual Rev. No.

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/M	OD 450/620 nm	CV % (Variation)
0 U/ml	0.058	1.2
3 U/ml	0.189	3.5
10 U/ml	0.354	3.8
30 U/ml	0.644	0.7
100 U/ml	1.195	1.1
300 U/ml	2.051	3.3

Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	1.198/1.172	1.185	91.5
P 02	0.502/0.498	0.500	19.8

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.

Page 7 of 9



ef. 10	Product Ref.	ı
c. Annexin V	Product Desc.	
o. 004 : 2015-0	Manual Rev. No.	l

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 Annexin V-GM gave an analytical sensitivity of 1.0 U/ml.

10.2 Specificity and sensitivity

The microplate is coated with highly purified *native human Annexin V*. No crossreactivities to other autoantigens have been found.

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	127.0	125.0	101.6
	1 / 200	63.0	62.5	100.8
	1 / 400	30.8	31.3	98.4
	1 / 800	16.9	15.6	108.3
2	1 / 100	76.0	76.0	97.4
	1 / 200	38.0	38.0	97.4
	1 / 400	18.9	18.9	96.9
	1 / 800	9.3	9.3	94.9



10240	Product Ref.
Annexin V-GM	Product Desc.
004 : 2015-07-16	Manual Rev. No.

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	127.0	4.1	
2	78.0	4.3	
3	31.0	3.8	

Inter-assay			
Sample No. Mean (U/ml) CV (%)			
1	124.0	5.1	
2	74.0	4.8	
3	29.0	3.1	

10.5 Calibration

Due to the lack of international reference calibration Annexin V-GM is calibrated in arbitrary units (U/ml).

11 Literature

Satoh A, Suzuki K, Takayama E, Kojima K, Hidaka T, Kawakami M, Matsumoto I, Ohsuzu F. Detection of anti-annexin IV and V antibodies in patients with antiphospholipid syndrome and systemic lupus erythematosus. J Rheumatol. 1999 Aug; 26(8): 1715-20.

Matsubayashi HF et al. Anti-annexin V antibodies in patients with early pregnancy loss or implantation failures. Fertil Steril 2001; 76:964-699.

Rand JH. The pathogenic role of annexin-V in the antiphospholipid syndrome. Curr Rheumatol Rep. 2000 Jun; 2(3): 246-51.

Rand JH, Wu XX, Quinn AS, Chen PP, McCrae KR, Bovill EG, Taatjes DJ. Human monoclonal antiphospholipid antibodies disrupt the annexin A5 anticoagulant crystal shield on phospholipid bilayers: evidence from atomic force microscopy and functional assay. Am J Pathol. 2003 Sep; 163(3): 1193-200.

Rand JH, Wu XX. Antibody-mediated disruption of the annexin-V antithrombotic shield: a new mechanism for thrombosis in the antiphospholipid syndrome. Thromb Haemost. 1999 Aug; 82(2): 649-55.

Post deposition with		- Diagnosi in vitro	- For in vitro diagnostic use
Parts us Dispression in vivo REF Reference Carlsogue Reference Carlso	IVD	-	
Parts us Dispression in vivo REF Reference Carlsogue Reference Carlso			-
REF Numers of cristings Numers of cristi	142	· · · · · · · · · · · · · · · · · · ·	- ΤΗ ΥΠΙΟ ΔΙαγνωστικό μεσο
REF Référence Calabogue Référence Calabogue I Control (Calabogue) Référence Calabogue I Control (Calabogue) Référence Calabogue I Control (Calabogue) Référence Calabogue Référence Calabogue			"Catalana numbar
Bestellummer Appliance months Appliance month			,
Notine of the calledge Lot	RFF	,	
Tutol Chargen Bertichhung Tutol Chargen Bertichhung Tutol Chargen Bertichhung Tutol Tutol Chargen Bertichhung Tutol Tutol Continuin aurupea			" Αριθμός παραγγελίας
LOT Conseque Baselchurung Conferent aurureau		" Número de catálogo	
Charges Beasedhung Continuents auropea Continuent		" Descrizione lotto	" Lot
Conformate our organia		" Lot	"Lote
CONTENTION SUCRESS Foliation of Conformation Four-instance Certification Conformation Four-instance Conformation Foliational Certification Conformation Foliational Certification Conformation Foliational Certification Foliational C		" Chargen Bezeichnung	" Χαρακτηρισμός παρτίδας
Declaración CE de Conformida Declaración CE de Conformida Declaración CE de Conformidad Declaración CE de Conformidade		" Lote	
Declaracia CE de Conformedado 96 teors 97 teors 96 teors 96 teors 96 teors 96 teors 96 teors 96 teors 97 teors 96 teors		" Conformità europea	"EC Declaration of Conformity
Declaracia CE de Conformedado 96 teors 97 teors 96 teors 96 teors 96 teors 96 teors 96 teors 96 teors 97 teors 96 teors		" Déclaration CE de Conformité	" Declaración CE de Conformidad
Designation Ce de Conformulacie 96 lessis 96 deserminancy 96 lessis 96 lessis 96 lessis 96 lessis 97 ce lessis 98 lessis 98 republication 98 l'estels 1 Voir les instructions d'utilisation 1 Voir les instructions d'utilisa	\	" Europäische Konformität	¨Ευρωπαϊκή συμφωνία
See Beats			
See Beals See Beals See Probabas			" 96 tests
96 Resimmungen 990 Testes 900 Testes 1900	_/		
Rigostator el instruction per l'uso Violite la instructione d'utilisation Violite la instructione de uso	\2/		·
Finderton International Process Singuistration Finderton Total Process Total Process Finderton Total Process Finderton Total Process Finderton Total Process Finderton Fin	V96	· · · · · · · · · · · · · · · · · · ·	96 προσοιορισμοί
Vivil teal instructions d'utilisation Vert les instrucciones de uso	• • •		
Gebrauchsansweisung beachten	\sim	*	
Variation Vari	l lil		
Control positivo Control Positivo Control Registrio Recuperado Control Registrio Recuperado Control Registrio Recuperado Control Registrio Recuperado Control Registrio Control Registrio Control Registrio Control Registrio Control Registrio Control Registrio Control Regist			΄΄ Λάβετε υπόψη τις οδηγίες χρήσης
Utilizar antes de Volvorandan bis Volvoran	*	" Ver as instrucões de uso	
Verwendhar bis Varion μέχρο		" Da utilizzarsi entro	" Use by
Conservate a 2-8°C Store at 2-8°C (35-46°F)	l ()		" Utilizar antes de
Conserver a 2-8°C Conserver a		"Verwendbar bis	" Χρήση μέχρι
CONSERVER à 2-8°C "Lagerung bet 2-8°C "Conserver entre 2-8°C "Conserver entre 2-8°C "Product de de "Manufactured by Fabricado por Fabrique par Fabrique par Fabricado por Fabrique par		" Utilizar antes de	
Lagerung bet 2.8°C		" Conservare a 2-8°C	
CON Prototto da Manufactured by Fabricado por Prostive Control Control Positivo Positive Control Positive Contr	D-+8°C		"Conservar a 2-8°C
Produto da Francisco de Francisco de Producto da Francisco de Producto de Pro	+2°C-1	"Lagerung bei 2-8°C	¨ Φυλάσσεται στους 2-8°C
Fabricado por Fabricado positivo Fositiv Kontrolle Fositiv Ko	•	"Conservar entre 2-8°C	
Hergestellt von Fabricado por Fabricado positivo Positivo Fabricado Fabricad		" Prodotto da	" Manufactured by
CON	***	" Fabriqué par	"Fabricado por
CONTIOL positivo Positive Control		_	¨ Κατασκευάζεται από
CON		" Fabricado por	
CONI		" Controllo positivo	" Positive Control
CONI— Controllo negativo Control Negativo Control Negativo Negativ Control Negativo			
CONI— Controllo negativo Control Negative Control Control Negative Control Negative Control Co			¨ Θετικός ορός ελέγχου
CON			
Negativ Kontrolle			-
CAL Calibratore Calibratore Calibrator Recupero Recupero Correlation Recuperado Conjugato	I CONI-I	_	~
CAL - Calibratore - Etalon - Calibrator - Recupero - Recovery - Recovery - Recuperado - Wiederfindung - Recuperado - Wiederfindung - Recuperado - Conjugate - Conju	0014		Αρνητικός ορός ελέγχου
CAL Falibrator Calibrador Calibrador Calibrador Calibrador Calibrador Calibrador Recupero Recupero Recuperado Correlation Recuperado Conjugato			
Racupero Recupero Recuperado Recupe			
Calibrador Recupero Recovery			
Recupero Recupero Recuperado Recupe			Αντιοραστηριο βαθμονομησης
Corrélation Recuperado Vividedrifindung Avdiktrijon Avdiktrijon			
Tecony Recuperacão CONJ CONJ CONJ COnjugáte Conjugáte Conjugáte Conjugáte Conjugate Conjugate Conjugado Konjugat Conjugado Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaça sensibiliséa Beschichtete Mikrotiterplatte Microplaça sensibiliséa Beschichtete Mikrotiterplatte Beschichtete Mikrotiterplatte Microplaça sensibiliséa Beschichtete Mikrotiterplatte Beschichtete Bes		·	,
"Recuperacão Conjugato " Conjugato " Conjugado " Konjugat " Sučeuyµa " Microplactra rivestita " Coated microtiter plate " Microplaque sensibilisée " Microplaca sensibilizada " Beschichtete Mikrotiterplatte " Emikoλuµµévη µiκροπλάκα " Microplaca revestida " Tampon de Lavage " Solución de lavado " Tampon de Lavage " Solución de lavado " Waschpuffer " Puθμιστικό διάλυμα πλύσης " Solucão de lavagem " Substrate buffer " Substrat " Tampón sustrato " Substrate " Tampón sustrato " Substrate " Puθμιστικό διάλυμα υποστρώματος " Substrato " Stop solution " Solución de parada " Solución de parada " Solución de paragem " Αντιδραστήριο διακοπής αντίδρασης " Solucão de paragem " Αντιδραστήριο διακοπής αντίδρασης " Ταπροπ Echantillons " Ταπρόπ Muestras " Ροθμιστικό διάλυμα δειγμάτων			*
CONJ Conjugato Conjugat Conjugado Konjugat Conjugado Micropiastra rivestita Micropiastra rivestita Micropiaca sensibilisée Beschichtete Mikrotiterplatte Micropiaca revestida Tampone di lavaggio Tampon de Lavage Solución de lavado Waschpuffer Solución de lavage Substrate Substrate Substrate Substrate Substrate Substrate Reagente bloccante Solución de parada Solución de parada Reagente Solución de parada Tampon d'Arrêt Solución de parada Tampon campione Tampon Chantillons Tampon Muestras Probenpuffer Puθμιστικό διάλυμα στιδραστής αντίδρασης Tampon Lavage Tampon Muestras Probenpuffer Puθμιστικό διάλυμα δειγμάτων			AVUKITIOTI
CONJ "Conjugé "Conjugado "Konjugat "Σύζευγμα "Conjugado "Microplastra rivestita "Coated microtiter plate "Microplaque sensibilisée "Microplaca sensibilizada "Beschichtete Mikrotiterplatte "Επικαλυμμένη μικροπλάκα "Microplaca revestida "Tampone di lavaggio "Wash buffer "Tampon de Lavage "Solución de lavado "Waschpuffer "Pυθμιστικό διάλυμα πλύσης "Solucão de lavagem "Tampone substrato "Substrate buffer "Substrate "Tampón sustrato "Substrate "Tampón sustrato "Substrate "Puθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Stopreagenz "Αντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampón Echantillons "Tampón Muestras "Puθμιστικό διάλυμα δειγμάτων	<u> </u>	·	
Tonjugado * Micropiastra rivestita			· -
Tonjugado * Micropiastra rivestita		· -	7.5
MP Micropiastra rivestita Micropiaca sensibilisée Beschichtete Mikrotiterplatte Micropiaca revestida Micropiaca sensibilisée Beschichtete Mikrotiterplatte "Eπικαλυμμένη μικροπλάκα Micropiaca sensibilizada "Eπικαλυμμένη μικροπλάκα Micropiaca sensibilizada "Eπικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Vaschpuffer "Solucão de lavade "Wasch puffer "Tampon substrato "Substrate buffer "Tampón substrato "Substrate "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Stop solución "Reagente bloccante "Solución de parada "Stopreagenz "Aντιδραστήριο διακοτής αντίδρασης "Sample buffer "Tampon Echantillons "Tampón Muestras "Pυθμιστικό διάλυμα δειγμάτων	00140	, , ,	Συ ζευγμα
MP Microplaque sensibilisée "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Επικαλυμμένη μικροπλάκα "Tampone di lavaggio "Wash buffer "Solución de lavado "Tampon de Lavage "Solución de lavado "Wash buffer "Pυθμιστικό διάλυμα πλύσης "Solución de lavage "Solución de lavage "Solución de lavage "Solución de lavage "Tampone substrato "Substrate buffer "Tampón sustrato "Substrate buffer "Pυθμιστικό διάλυμα υποστρώματος "Substrate buffer "Pυθμιστικό διάλυμα υποστρώματος "Substrate buffer "Solución de parada "Solución de parada "Solución de parada "Tampon de parade "Solución de paragem "Tampone campione "Sample buffer "Tampón Muestras "Tampón Muestras "Probenpuffer "Puθμιστικό διάλυμα δειγμάτων "Puθμιστικό διάλυμα δ			"Control migratitar plats
Beschichtete Mikrotiterplatte "Microplaca revestida "Tampone di lavaggio "Tampon de Lavage "Solución de lavado "Vaschpuffer "Solución de lavado "Pυθμιστικό διάλυμα πλύσης "Solución de lavado "Tampon esubstrato "Substrate buffer "Substrate buffer "Substrate "Tampón sustrato "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Substrato "Substrato "Stop solution "Solución de parada "Stopreagenz "Solución de parada "Stopreagenz "Solución de paragem "Tampone campione "Tampon Echantillons "Tampón Muestras "Pυθμιστικό διάλυμα δειγμάτων			•
"Microplaca revestida" "Tampone di lavaggio" "Wash buffer "Tampon de Lavage "Solución de lavado "Waschpuffer "Pυθμιστικό διάλυμα πλύσης "Solucão de lavagem" "Tampone substrato "Substrate buffer "Substrate "Tampón sustrato "Substrato" "Pυθμιστικό διάλυμα υποστρώματος "Substrato" "Pυθμιστικό διάλυμα υποστρώματος "Substrato" "Pυθμιστικό διάλυμα υποστρώματος "Substrato" "Stop solution "Solución de parada "Stopreagenz "Αντιδραστήριο διακοπής αντίδρασης "Solucão de paragem" "Tampone campione "Sample buffer "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	IMPI		•
Tampone di lavaggio "Wash buffer Tampon de Lavage "Solución de lavado "Waschpuffer "Ρυθμιστικό διάλυμα πλύσης "Solución de lavado "Waschpuffer "Ρυθμιστικό διάλυμα πλύσης "Substrate buffer "Substrate buffer "Substrate "Substrato "Tampón sustrato "Substrato "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Stop solution "Solución de parada "Stopreagenz "Aντιδραστήριο διακοττής αντίδρασης "Solución de paragem "Tampone campione "Sample buffer "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	1711	•	Επικαλυμμενη μικροπλακα
WASHB 50x Tampon de Lavage "Waschpuffer "Solución de lavado "Pυθμιστικό διάλυμα πλύσης "Substrate buffer "Substrate buffer "Substrate buffer "Substrato "Avriŏρ solution "Solución de parada "Stop solution "Solución de parada "Avriŏραστήριο διακοττής αντίδρασης "Solucão de paragem "Tampone campione "Tampon Echantillons "Tampón Muestras "Probenpuffer "Puθμιστικό διάλυμα δειγμάτων		•	"Wach huffer
Solucão de lavagem "Tampone substrato "Substrate buffer "Substrat "Tampón sustrato "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Solución de parada "Stopreagenz "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	14/4 01 15 50		
Solucão de lavagem "Tampone substrato "Substrate buffer "Substrat "Tampón sustrato "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Solución de parada "Stopreagenz "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	HVVASHBI50xL		
SUB "Tampone substrato "Substrate buffer "Substrat "Tampón sustrato "Substrato "Pυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Solución de parada "Stopreagenz "Αντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampón Muestras "Probenpuffer "Pυθμιστικό διάλυμα δειγμάτων	- " .O. ID OOX	·	ι σομιστικό οιαλομά Πλυστίς
SUB "Substrat "Ταπρόn sustrato " Ρυθμιστικό διάλυμα υποστρώματος "Substrato "Reagente bloccante "Solución de parada "Solución de parada "Stopreagenz "Αντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Ταπρόn Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων		· · · · · · · · · · · · · · · · · · ·	" Cubatrata huffar
"Substrato "Reagente bloccante "Stop solution "Solución de parada "Solución de parada "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	SUB		
"Substrato "Reagente bloccante "Stop solution "Solución de parada "Solución de parada "Aντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων			,
STOP "Reagente bloccante "Stop solution "Solución de parada "Solución de parada "Aντιδραστήριο διακοπής αντίδρασης "Αντιδραστήριο διακοπής αντίδρασης "Solucão de paragem "Sample buffer "Tampone campione "Sample buffer "Tampón Muestras "Ρυθμιστικό διάλυμα δειγμάτων			ε συμιστικό οιαλυμά υποστρωμάτος
STOP"Solution d'Arrêt""Solución de parada"Stopreagenz"Αντίδραστήριο διακοπής αντίδρασης"Solucão de paragem"Tampone campione"Sample buffer"Tampon Echantillons"Tampón Muestras"Probenpuffer"Ρυθμιστικό διάλυμα δειγμάτων			" Stop colution
"Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων		_	-
"Solucão de paragem "Tampone campione "Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	ISTOPI		•
SB 5x "Tampone campione" "Sample buffer "Tampon Echantillons" "Tampón Muestras "Probenpuffer" "Ρυθμιστικό διάλυμα δειγμάτων		, ,	Αντιοραστηρίο σιακοττής αντιοραστής
SB 5x Tampon Echantillons "Tampón Muestras "Ροθειρμήτες Βυθμιστικό διάλυμα δειγμάτων		1 - 1	" Cample buffer
SB SX "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων			-
	SR 5v		
Diluente de amostrá			Ρυσμιστικο οιαλυμα οειγματων
		i Diluente de amostra	1