

REF 10501

Glia-A

Instruction Manual

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AIDA GmbH & Co. KG Rheingrafenstrasse 3 D-55543 Bad Kreuznach Tel: +49-800-1752004 Fax: +49-800-1752000 Info@aida-diagnostics.com www.aida-diagnostics.com



Product Ref.	10501
Product Desc.	Glia-A
Manual Rev. No.	004 : 2013-08-01

1 Intended Use

Glia-A is a solid phase enzyme immunoassay employing highly purified alpha-Gliadin for the quantitative detection of IgA antibodies against gliadin in human serum.

The assay is a tool in the diagnosis of celiac disease (gluten-sensitive enteropathy).

2 Clinical Application and Principle of the Assay

Gluten-sensitive enteropathy or celiac disease is characterized by atrophy of the small intestinal villi leading to a so-called flat mucosa. It is caused by a pathological intolerance to Gliadin, the alcohol-soluble fraction of gluten in wheat, rye and barley. As celiac disease is caused by the uptake of gluten, consequently a gluten-free diet cures the disease completely and thus has to be maintained for life-time. Renewed consumption of Gliadin leads to a return of the symptoms. The disease is HLA-associated (>95% of patients have DQ2 enREFd by DQA1*0501 and DQB1*0201) and manifests at any age with a peak onset in early childhood, even in neonatals. The incidence rates range from 1 in 4000 to 1 in 300 in european countries.

Diagnosis of celiac disease is made by small intestinal biopsy (demonstrating the flat mucosa) supported by serological markers. Antibodies against Gliadin and tissue Transglutaminase (tTG) are of major significance. tTG has been identified as the major target antigen of EMA, antibodies binding to endomysium (extracellular constituent of smooth muscle) in indirect immunofluorescence test (IFT), which has been so far an important tool for the diagnosis of celiac diseases.

Circulating IgG and IgA antibodies to Gliadin are found in the serum of most but not all celiac disease patients, though the specificity of these antibodies are significantly lower compared to tTG and EMA. The determination of IgG antibodies to Gliadin (and/or tTG) is expecially of high value as approximately 2% - 5% of celiac patients display an IgA deficiency, thus being missed by IgA subclass tests.

Antibodies to Gliadin may be the only serological marker in neonatals, as anti-tTG and EMA autoantibodies are not present at this age. Consequently anti-Gliadin antibodies are the earliest serological marker for pediatricians when diagnosing celiac disease.

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, IgA	1 x 15ml	Red	Red	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 $_2O_2$)
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 μ l) or adjustable multipipette (100-1000 μ l). Microplate washing device (300 μ 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 $^{\circ}$ C/35-46 $^{\circ}$ F, in their original containers. Once prepared, reconstituted solutions are stable at 2-8 $^{\circ}$ C/35-46 $^{\circ}$ 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 (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 ℃/ 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 $2-8^{\circ}/35-46^{\circ}$ F up to 48h, or frozen at $-20^{\circ}/-4^{\circ}$ 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 μ l sample buffer (1x) + 10 μ l 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:

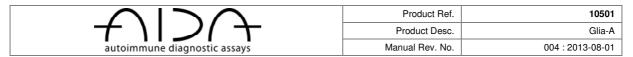
Consider excess volumes required for setting up the instrument and dead volume of robot pipette.

Manual washing:

Discard liquid from wells by inverting the plate. Knock the microwell frame with wells downside vigorously on clean adsorbent paper. Pipette 300 μ l of diluted wash buffer into each well, wait for 20 seconds. Repeat the whole procedure twice again.

Microplates:

Calculate the number of wells required for the test. Remove unused wells from the frame, replace and store in the provided plastic bag, together with desiccant, seal tightly (2-8 °C/35-46 °F).



7.2 Pipetting Scheme

We suggest pipetting calibrators, controls and samples as follows:

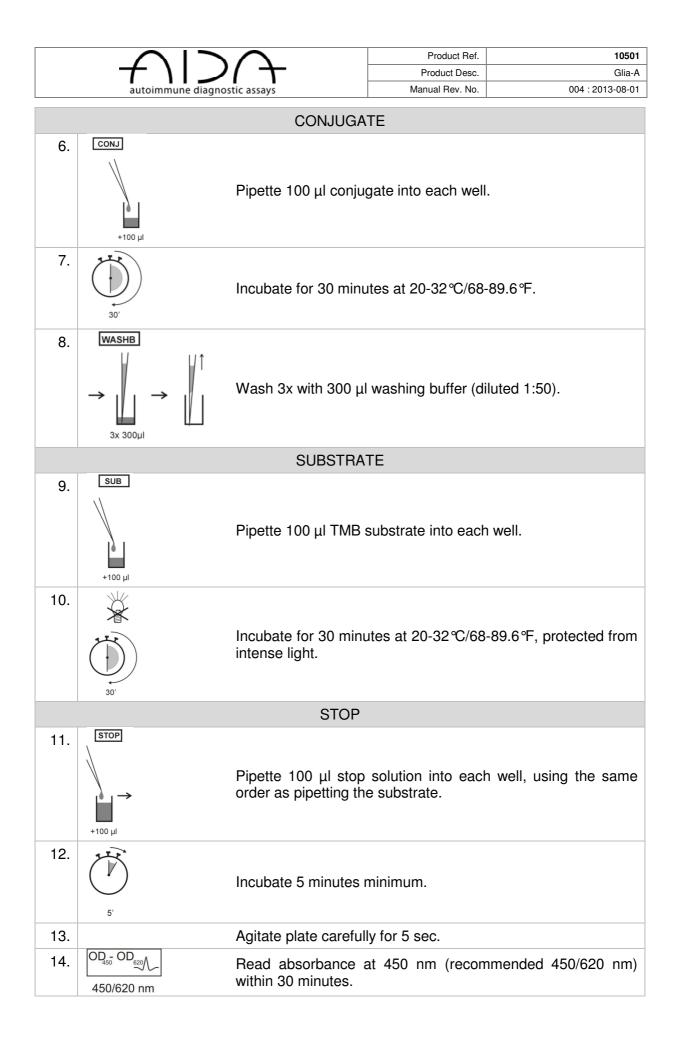
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Α	Cal A	Cal E	P1	
В	Cal A	Cal E	P1	
С	Cal B	Cal F	P2	
D	Cal B	Cal F	P2	
Е	Cal C	PC	P3	
F	Cal C	PC	P3	_
G	Cal D	NC		
Н	Cal D	NC		

For QUANTITATIVE interpretation

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 μ l 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.	WASHE \rightarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow Wash 3x with 300 µl washing buffer (diluted 1:50).		





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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 IgA	OD 450/620 nm	CV % (Variation)
0 U/ml	0.059	1.4
3 U/ml	0.182	1.2
10 U/ml	0.323	2.2
30 U/ml	0.667	0.7
100 U/ml	1.316	0.9
300 U/ml	2.203	0.1

Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	0.654/0.633	0.644	27.6
P 02	1.284/1.263	1.274	89.9

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 ℃/68-89.6 ℉
Calibration range:	0-300 U/ml
Analytical sensitivity:	1.0 U/ml
Storage:	at 2-8 ℃/35-46 ℉ use original vials only.
Number of determinations:	96 tests

10 Performance Data

10.1 Analytical sensitivity

Testing sample buffer 30 times on Glia-A gave an analytical sensivity of 1.0 U/ml.

10.2 Specificity and sensitivity

The microplates are coated with highly purified alpha gliadin. No crossreactivities to other autoantigens have been found. Positive IgG and IgA anti-gliadin antibodies give a diagnostic specificity of 96-97% for celiac disease. The diagnostic sensitivity for anti-gliadin antibodies for IgG and IgA ranges between 96 and 100%.

10.3 Linearity

Chosen sera have been tested with this kit and found to dilute linearly. However, due to the heterogeneous nature of human autoantibodies there might be samples that do not follow this rule.

Sample No.	Dilution Factor	Measured (U/ml)	Expected (U/ml)	Recovery (%)
1	1 / 100	51.6	53.0	97.3
	1 / 200	26.1	26.5	98.5
	1 / 400	12.4	13.3	93.2
	1 / 800	6.0	6.6	90.9
2	1 / 100	114.0	110.0	103.6
	1 / 200	51.4	55.0	93.5
	1 / 400	25.7	27.5	93.5
	1 / 800	13.4	13.8	97.1



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	89.6	4.67	
2	89.8	3.61	
3	45.4	2.11	

Inter-assay		
Sample No.	Mean (U/ml)	CV (%)
1	83.7	4.43
2	98.5	4.56
3	43.5	2.37

10.5 Calibration

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

11 Literature

Dietrich W, Ehnis T, Bauer M, Donner P, Volta U, Riecken EO, Schuppan D. Identification of tissue transglutaminase as the autoantigen of celiac disease. Nat Med 1997; 3: 797-801.

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CAL - Etalon - Calibrador RC - Recupero - Recuperado Wiederfindung - Avdkrngn - Consigato - Conjugate - Conjugato - Conjugato - Recuperacão - - Meropiastra rivestita - Conjugato - Recuperacão - - Recuperacão - - Recuperacão - - Recuperacão - - Conjugato - Conjugato - Conjugato - Conjugato - Recuperacão - - Conjugato - - Conjugato - - Conjugato - - Solucão de sensibilisée - - Tampon e Lavage - <td></td> <td>-</td> <td>" Calibrator</td>		-	" Calibrator
CAL * Kalibrator * Avriõpaornýpio βαθμονόμησης * Calibrador * Recupero * Recovery * Corrélation * Recuperado * * Wiederfindung * Avdxmron * * Recuperado * * * Oniugato * Conjugate * * Conjugát * Conjugato * * Microplacus ensibiliséé * * * Tampone di lavaggio * * * Tampone substrato * Solución de lavado			
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CONJ - Coniugato - Conjugate · Conjugát - Conjugado - Conjugado · Konjugat - Zúčevyµa - Conjugado · Microplastra rivestita - Coated microtiter plate · Microplaca sensibilisée - Microplaca sensibilizada · Beschichtete Mikrotiterplatte - ErrikaAuµµévŋ µikporti/dkaa · Microplaca revestida - · Microplaca revestida - · Tampone di Lavage - Solución de lavado · VAASHB 500x - Tampone de lavage · Tampone di lavage - Substrate buffer · Tampone de lavage - Solución de lavado · Washpuffer - Puθµιστικό διάλυµα υποστρώµατος · Substrat - Stops solution · Substrato - Stop solution · Substrato - Stop solution · Substrato - Stop solution · Solucão de paragem - Avriðpaorn/pio διακοιτής αντίδρασης · Solucão de paragem - Tampon Echantillons · Sublada de paragem - Tampon Echantillons · Solucão de paragem - Tampón Muestras · Solucão de paragem - Tampón Muestras · Solucão de paragem - Ta		[~] Kalibrator [~] Calibrador [~] Recupero [~] Corrélation	Αντιδραστήριο βαθμονόμησης
CONJ - Conjugado * Konjugat * Σύζευγμα * Conjugado * * Micropiastra rivestita * Coated microtiter plate * Micropiaque sensibilisée * Micropiaca sensibilizada * Beschichtete Mikrotiterplatte * EmixoAuµµévn µıκροπλάκα * Micropiaca revestida * * Tampone di lavaggio * Wash buffer * Tampone di lavaggio * Solución de lavado * Washpuffer * Puθµıστικό διάλuµα πλύσης * Solucão de lavagem * * Substrato * Substrato * Substrat * Tampón sustrato * Substrato * Substrato * Substrato * * Stopreagenz * Stop solution * Solucão de paragem * * Stopreagenz * Avriδραστήριο διακοτής αντίδρασης * Tampon Echantillons * Tampón Muestras * Tampon Echantillons * Tampón Muestras		[°] Kalibrator [°] Calibrador [°] Recupero [°] Corrélation [°] Wiederfindung	Αντιδραστήριο βαθμονόμησης
ConjugadoMPMicropiastra rivestitaCoated microtiter plateMicropiastra rivestitaMicropiaca sensibilizadaMicropiace sensibiliséeMicropiaca sensibilizadaBeschichtete MikrotiterplatteErmkaλuµµένη µκροπλάκαMicropiace versidaMicropiace di lavaggioWash bufferTampone di lavaggioSolución de lavadoMaschpufferPuθµютικό διάλuµα πλύσηςSolucão de lavagemSolucão de lavagemTampone substratoSubstrate bufferSubstratTampon substratoSubstrateSubstrateSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSolución de paradaSubstratoSolución de paradaSubcao de paragemTampon campioneTampon campioneSample bufferTampon campioneSample bufferTampon cahatillonsTampón MuestrasProbenpufferPuθµιστικό διάλuµa σειγμάτων		[~] Kalibrator [°] Calibrador [°] Recupero [°] Corrélation [°] Wiederfindung [°] Recuperacão	 Αντιδραστήριο βαθμονόμησης Recovery Recuperado Ανάκτηση
ConjugadoMPMicropiastra rivestitaCoated microtiter plateMicropiastra rivestitaMicropiaca sensibilizadaMicropiace sensibiliséeMicropiaca sensibilizadaBeschichtete MikrotiterplatteErmkaλuµµένη µκροπλάκαMicropiace versidaMicropiace di lavaggioWash bufferTampone di lavaggioSolución de lavadoMaschpufferPuθµютικό διάλuµα πλύσηςSolucão de lavagemSolucão de lavagemTampone substratoSubstrate bufferSubstratTampon substratoSubstrateSubstrateSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSubstratoSolución de paradaSubstratoSolución de paradaSubcao de paragemTampon campioneTampon campioneSample bufferTampon campioneSample bufferTampon cahatillonsTampón MuestrasProbenpufferPuθµιστικό διάλuµa σειγμάτων	RC	[°] Kalibrator [°] Calibrador [°] Recupero [°] Corrélation [°] Wiederfindung [°] Recuperacão [°] Coniugato	 Αντιδραστήριο βαθμονόμησης Recovery Recuperado Ανάκτηση Conjugate
MP * Μicropiastra rivestita * Coated microtiter plate * Micropiague sensibilisée * Micropiaca sensibilizada * Beschichtete Mikrotiterplatte * Επικαλυμμένη μικροπλάκα * Micropiaca revestida * * Tampon de Lavage * Solución de lavado * Washpuffer * Tampon de Lavage * Solucão de lavagem * * Substrate * Substrate buffer * Substrato * Substrate buffer * Substrato * Substrato * Substrato * * Solución de paragem * * Solución de paragem * * Substrato * * Solución de paragem * * Solución de paragem * * Solución de paragem * * Substrato * * Solución de paragem * * Tampon Excente * Stop solution * Solución de paragem * * Solución de paragem * *	RC	[°] Kalibrator [°] Calibrador [°] Recupero [°] Corrélation [°] Wiederfindung [°] Recuperacão [°] Coniugato [°] Conjugé	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado
MP Microplaque sensibilisée Microplaca sensibilizada Beschichtete Mikrotiterplatte Eπικαλυμμένη μικροπλάκα Microplaca revestida - Tampon ed lavaggio - Wash buffer Tampon de Lavage - Solución de lavado Waschpuffer - Puθμιστικό διάλυμα πλύσης Solucão de lavagem - Tampone substrato - Substrate buffer Substrat - Tampón sustrato Substrat - Tampón sustrato Substrat - Tampón sustrato Substrat - Substrate buffer Substrato - Subción de paraga - Stopreagenz - Subción de paragem - Tampone campione - Tampone campione - Tampone campione - Tampon Echantillons - P	RC	[°] Kalibrator [°] Calibrador [°] Recupero [°] Corrélation [°] Wiederfindung [°] Recuperacão [°] Coniugato [°] Conjugé [°] Konjugat	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado
WP Beschichtete Mikrotiterplatte Επικαλυμμένη μικροπλάκα 'Microplaca revestida '' 'Tampone di lavaggio ''Wash buffer 'Tampon de Lavage ''Solución de lavado ''Waschpuffer ''Puθμιστικό διάλυμα πλύσης 'Solucão de lavagem '' ''Tampon esubstrato ''Substrate buffer ''Substrat ''Tampón sustrato ''Substrato ''Substrato ''Substrato ''Stop solution ''Substrato ''Solución de parada ''Solucão de paragem ''Arrôpacritipo διακοπής αντίδρασης ''Solução de paragem ''''''''''''''''''''''''''''''''''''	RC	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáo Conjugé Konjugat Conjugado 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα
· Microplaca revestida · · Tampone di lavaggio · Wash buffer · Tampon de Lavage · Solución de lavado · Waschpuffer · Puθμιστικό διάλυμα πλύσης · Solucão de lavagem · · Solucão de lavagem · · Substrate · Substrate buffer · Substrato · Substrate buffer · Substrato · Substrato · Substrato · Substrato · Substrato · Stop solution · Solucão de paragem · Avriõpaornýpo ölaxornýp avriõpaonyc · Solucão de paragem · Tampon campione · Sample buffer · Sample buffer	RC CONJ	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugato Micropiastra rivestita 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate
VASHB 50x Tampone di lavaggio Wash buffer Tampon de Lavage Solución de lavado Waschpuffer Puθμιστικό διάλυμα πλύσης Solucão de lavagem Substrate buffer Substrat Tampón sustrato Substrat Tampón sustrato Substrat Puθμιστικό διάλυμα υποστρώματος Substrat Substrato Substrato Stop solution Substrato Stop solution Subit rato Stop solution Solución de parada Solución de parada Stopreagenz Avriδραστήριο διακοπής αντίδρασης Solución de paragem Tampon Echantillons Tampon Echantillons Tampón Muestras Probenpuffer Puθμιστικό διάλυμα δειγμάτων	RC CONJ	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada
WASHB 50x Tampon de Lavage Solución de lavado Waschpuffer Puθμιστικό διάλυμα πλύσης Solucão de lavagem Substrate buffer SUB Tampone substrato Substrate buffer Substrat Tampón sustrato Substrat Tampón sustrato Substrat Puθμιστικό διάλυμα υποστρώματος Substrato Substrato Substrato Reagente bloccante Solución de parada Solución de parada Stop reagenz Solución de parada Solución de paragem Tampone campione Tampon campione Sample buffer Tampon campione Tampón Muestras Probenpuffer Puθμιστικό διάλυμα δειγμάτων	RC CONJ	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada
Solução de lavagem Tampone substrato "Substrate buffer SUBS "Tampón sustrato Substrat "Tampón sustrato Substratpuffer "Puθμιστικό διάλυμα υποστρώματος Substrato "Substrato Substrato "Stop solution Substrato "Solución de parada Solución d'Arrêt "Solución de parada Stopreagenz "Avriδραστήριο διακοπής αντίδρασης Solución de paragem "Tampon Echantillons "Tampon Echantillons "Tampón Muestras "Probenpuffer "Puθμιστικό διάλυμα δειγμάτων	RC CONJ	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida 	 Αντιδραστήριο βαθμονόμησης Recovery Recuperado Ανάκτηση Conjugate Conjugado Σύζευγμα Coated microtiter plate Microplaca sensibilizada Επικαλυμμένη μικροπλάκα
Solução de lavagem Tampone substrato "Substrate buffer SUBS "Tampón sustrato Substrat "Tampón sustrato Substratpuffer "Puθμιστικό διάλυμα υποστρώματος Substrato "Substrato Substrato "Stop solution Substrato "Solución de parada Solución d'Arrêt "Solución de parada Stopreagenz "Avriδραστήριο διακοπής αντίδρασης Solución de paragem "Tampon Echantillons "Tampon Echantillons "Tampón Muestras "Probenpuffer "Puθμιστικό διάλυμα δειγμάτων	RC CONJ MP	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio 	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Avάκτηση "Conjugate "Conjugado Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer
SUB [*] Tampone substrato [*] Substrate buffer SUB [*] Substratpuffer [*] Puθμιστικό διάλυμα υποστρώματος SUB [*] Substratpuffer [*] Substrato SUB [*] Reagente bloccante [*] Solución de parada Solucion d'Arrêt [*] Solución de parada Stopreagenz [*] Solución de parada Stopreagenz [*] Sample buffer Tampone campione [*] Sample buffer Tampone Echantillons [*] Tampón Muestras Probenpuffer [*] Puθμιστικό διάλυμα δειγμάτων	RC CONJ MP	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada [~] Επικαλυμμένη μικροπλάκα [~] Wash buffer [~] Solución de lavado
SUB Substrat Tampón sustrato SUB Substratpuffer Puθμιστικό διάλυμα υποστρώματος Substrato Stop solution STOP Reagente bloccante Stop solution Solución de parada Solución de parada Stopreagenz Aντιδραστήριο διακοπής αντίδρασης Solucão de paragem Tampone campione Tampone campione Sample buffer Tampon Echantillons Tampón Muestras Probenpuffer Puθμιστικό διάλυμα δειγμάτων	RC CONJ MP	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada [~] Επικαλυμμένη μικροπλάκα [~] Wash buffer [~] Solución de lavado
Substrato STOP [°] Substrato [°] Reagente bloccante [°] Solución de parada [°]	RC CONJ MP	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugá Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solução de lavagem	Αντιδραστήριο βαθμονόμησης " Recovery " Recuperado Ανάκτηση " Conjugate " Conjugado " Σύζευγμα " Coated microtiter plate " Microplaca sensibilizada " Επικαλυμμένη μικροπλάκα " Wash buffer " Solución de lavado " Ρυθμιστικό διάλυμα πλύσης
Substrato STOP [°] Substrato [°] Reagente bloccante [°] Solución de parada [°]	RC CONJ MP WASHB 50x	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solução de lavagem Tampone substrato	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada [~] Επικαλυμμένη μικροπλάκα [~] Wash buffer [~] Solución de lavado [~] Ρυθμιστικό διάλυμα πλύσης [~] Substrate buffer
STOP [°] Reagente bloccante [°] Stop solution Solution d'Arrêt [°] Solución de parada [°] Stopreagenz [°] Avriõpaorn(pio õiakorní\s avriõpaorn\s contribute) [°] Solucão de paragem [°] Tampone campione [°] Sample buffer [°] Tampon Echantillons [°] Tampón Muestras [°] Probenpuffer [°] Puθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat 	 Αντιδραστήριο βαθμονόμησης Recovery Recuperado Ανάκτηση Conjugate Conjugado Σύζευγμα Coated microtiter plate Microplaca sensibilizada Επικαλυμμένη μικροπλάκα Wash buffer Solución de lavado Ρυθμιστικό διάλυμα πλύσης Substrate buffer Tampón sustrato
STOP ⁻ Solución d'Arrêt ⁻ Solución de parada ⁻ Stopreagenz ⁻ Αντιδραστήριο διακοπής αντίδρασης ⁻ Solucão de paragem ⁻ Sample buffer ⁻ Tampone campione ⁻ Sample buffer ⁻ Tampon Echantillons ⁻ Tampón Muestras ⁻ Probenpuffer ⁻ Puθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solução de lavagem Tampone substrato Substrat Substrat Substrat Substrat Substrat 	 Αντιδραστήριο βαθμονόμησης Recovery Recuperado Ανάκτηση Conjugate Conjugado Σύζευγμα Coated microtiter plate Microplaca sensibilizada Επικαλυμμένη μικροπλάκα Wash buffer Solución de lavado Ρυθμιστικό διάλυμα πλύσης Substrate buffer Tampón sustrato
· Solução de paragem · Tampone campione · Sample buffer · Tampon Echantillons · Tampón Muestras · Probenpuffer · Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato 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 Substrat Substrato 	 [~] Αντιδραστήριο βαθμονόμησης [~] Recovery [~] Recuperado [~] Ανάκτηση [~] Conjugate [~] Conjugado [~] Σύζευγμα [~] Coated microtiter plate [~] Microplaca sensibilizada [~] Επικαλυμμένη μικροπλάκα [~] Wash buffer [~] Solución de lavado [~] Ρυθμιστικό διάλυμα πλύσης [~] Συμμιστικό διάλυμα υποστρώματος
· Solução de paragem · Tampone campione · Sample buffer · Tampon Echantillons · Tampón Muestras · Probenpuffer · Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x SUB	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugáo Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substratouffer Substratouffer Substratouffer Reagente bloccante 	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Avάκτηση "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Puθμιστικό διάλυμα υποστρώματος "Stop solution
· Solução de paragem · Tampone campione · Sample buffer · Tampon Echantillons · Tampón Muestras · Probenpuffer · Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x SUB	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugáo Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substratouffer Substratouffer Substratouffer Reagente bloccante 	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado "Avάκτηση "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Puθμιστικό διάλυμα υποστρώματος "Stop solution
SB 5x Tampone campione Sample buffer "Tampon Echantillons "Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x SUB	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáo Conjugá Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone di lavagge Waschpuffer Solução de lavagem Tampone substrato Substrat Substrato Substrato Reagente bloccante Solution d'Arrét 	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado Ανάκτηση "Conjugate "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Puθμιστικό διάλυμα υποστρώματος "Stop solution
SB 5x Tampon Echantillons Tampón Muestras "Probenpuffer "Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x SUB	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugát Konjugat Orojugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Substrato Substrato Solucion d'Arrêt Stopreagenz	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado Ανάκτηση "Conjugate "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Επικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Puθμιστικό διάλυμα υποστρώματος "Stop solution
SB SX ^{···} Probenpuffer ^{···} Ρυθμιστικό διάλυμα δειγμάτων	RC CONJ MP WASHB 50x SUB	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Konjugat Conjugado Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaque sensibilisée Substrat Solucão de lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante Solucão de paragem	Αντιδραστήριο 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 " Puθμιστικό διάλυμα υποστρώματος " Stop solution " Solución de parada " Αντιδραστήριο διακοπής αντίδρασης
	RC CONJ MP WASHB 50x SUB SUB	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugá Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substratuffer Substrato Reagente bloccante Solution d'Arrêt Stopreagenz Solução de paragem	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado Ανάκτηση "Conjugate "Conjugato "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Emικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Puθμιστικό διάλυμα υποστρώματος "Stop solution "Solución de parada "Avnδραστήριο διακοπής αντίδρασης "Sample buffer
	RC CONJ MP WASHB 50x SUB SUB	Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáto Conjugá Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Tampone di lavaggio Tampone de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Reagente bloccante Solucão de paragem Tampone campione	Αντιδραστήριο βαθμονόμησης "Recovery "Recuperado Ανάκτηση "Conjugate "Conjugado "Σύζευγμα "Coated microtiter plate "Microplaca sensibilizada "Eπικαλυμμένη μικροπλάκα "Wash buffer "Solución de lavado "Puθμιστικό διάλυμα πλύσης "Substrate buffer "Tampón sustrato "Stop solution "Solución de parada "Aviδραστήριο διακοπής αντίδρασης "Sample buffer
	RC CONJ MP WASHB 50x SUB SUB	 Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato 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 Substrato Reagente bloccante Solucão de paragem Tampone campione Tampone campione Tampone chantillons Probenpuffer 	Αντιδραστήριο βαθμονόμησης " Recovery " Recuperado Ανάκτηση " Conjugate " Conjugado " Σύζευγμα " Coated microtiter plate " Microplaca sensibilizada " Επικαλυμμένη μικροπλάκα " Wash buffer " Solución de lavado " Ρυθμιστικό διάλυμα πλύσης " Substrate buffer " Tampón sustrato " Stop solution " Solución de parada " Αντιδραστήριο διακοπής αντίδρασης " Sample buffer