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THE DIAGNOSTIC TOOL THAT WORKS



**AESKULISA<sup>®</sup>**

THE DIAGNOSTIC TOOL THAT WORKS

# INSTRUCTION MANUAL

**AESKULISA  $\beta$ 2-Glyco-GM**

Ref 3206







Product Ref.	3206
Product Desc.	$\beta$ 2-Glyco-GM
Manual Rev. No.	004 : 2017-09-07

# Instruction Manual

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## 1 Intended Use

**AESKULISA β2-Glyco-GM** is a solid phase enzyme immunoassay employing native β2-glycoprotein I highly purified from human plasma for the separate quantitative and qualitative detection of IgG and / or IgM antibodies against β2-glycoprotein I in human serum. Anti-β2-glycoprotein I antibodies recognize specific epitopes on human β2-glycoprotein I which are expressed only when β2-glycoprotein I interacts with lipid membranes or when absorbed to other surfaces (e.g. microtiter plate).

The assay is an aid in the diagnosis and risk of primary and secondary antiphospholipid syndrome (APS).

## 2 Clinical Application and Principle of the Assay

Antibodies against β2-glycoprotein I belong to the group of anti-phospholipid antibodies mainly targeted against complexes composed of negatively charged phospholipids (cardiolipin e.g) and plasma proteins like β2- glycoprotein I, prothrombin, protein C or protein S.

Reactivity against isolated β2- glycoprotein I is found, too. Thus β2-glycoprotein I is discussed to be an autoantigen on its own. β2-glycoprotein I, also called apolipoprotein H, is a 50 kDa β2 globuline which is associated in vivo with lipoprotein, platelets and phospholipids and which seems to inhibit the intrinsic coagulation pathway, the prothrombinase activity and the ADP-dependent platelet aggregation. Anti-phospholipid antibodies are frequently found in sera of patients with systemic lupus erythematosus and related diseases and are typical for the secondary development of an antiphospholipid syndrome (APS). Whilst, anti-phospholipid antibodies in patients with no other autoimmune diseases characterize a primary APS.

Many studies have shown a correlation between these autoantibodies and an enhanced incidence of thrombosis, thrombocytopenia and habitual abortions (as a consequence of placental infarction). The exact mechanism how pathogenic anti-phospholipid antibodies induce thrombosis has not been revealed yet..

### 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.

### 3 Kit Contents

<b>TO BE RECONSTITUTED</b>				
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)
<b>READY TO USE</b>				
Item	Quantity	Cap color	Solution color	Description / Contents
Negative Control	1 x 1.5ml	Green	Colorless	Control material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Positive Control	1 x 1.5ml	Red	Yellow	Control material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Cut-off Calibrator	1 x 1.5ml	Blue	Yellow	Calibrator material (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. Calibrator material (diluted), bovine serum albumin (BSA), sodium azide < 0.1% (preservative)
Conjugate, IgG	1 x 15ml	Blue	Blue	Containing: Immunoglobulins conjugated to horseradish peroxidase, bovine serum albumin (BSA)
IgM	1 x 15ml	Green	Green	
TMB Substrate	1 x 15ml	Black	Colorless	Stabilized tetramethylbenzidine and hydrogen peroxide (TMB/H <sub>2</sub> O <sub>2</sub> )
Stop Solution	1 x 15ml	White	Colorless	1M Hydrochloric Acid
Microtiter plate	12 x 8 well strips	N/A	N/A	With breakaway microwells. Refer to paragraph 1 for coating.
* Color increasing with concentration				
<b>MATERIALS REQUIRED, BUT NOT PROVIDED</b>				
Microtiter plate reader 450 nm reading filter and recommended 620 nm reference filter (600-690 nm). Glass ware (cylinder 100-1000ml), test tubes for dilutions. Vortex mixer, precision pipettes (10, 100, 200, 500, 1000 $\mu$ l) or adjustable multipipette (100-1000 $\mu$ l). Microplate washing device (300 $\mu$ l repeating or multichannel pipette or automated system), adsorbent paper. Our tests are designed to be used with purified water according to the definition of the United States Pharmacopeia (USP 26 - NF 21) and the European Pharmacopeia (Eur.Ph. 4th ed.).				

### 4 Storage and Shelf Life

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

## 5 Precautions of Use

### 5.1 Health hazard data

**THIS PRODUCT IS FOR IN VITRO DIAGNOSTIC USE ONLY.** Thus, only staff trained and specially advised in methods of in vitro diagnostics may perform the kit. Although this product is not considered particularly toxic or dangerous in conditions of the intended use, refer to the following for maximum safety:

#### ***Recommendations and precautions***

This kit contains potentially hazardous components. Though kit reagents are not classified being irritant to eyes and skin we recommend to avoid contact with eyes and skin and wear disposable gloves.

**WARNING !** Calibrators, Controls and Buffers contain sodium azide (NaN<sub>3</sub>) as a preservative. NaN<sub>3</sub> may be toxic if ingested or adsorbed by skin or eyes. NaN<sub>3</sub> may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up. Please refer to decontamination procedures as outlined by CDC or other local/national guidelines.

**Do not smoke, eat or drink when manipulating the kit. Do not pipette by mouth.**

All biological source material used for some reagents of this kit 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 these 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.**

## 6 Sample Collection, Handling and Storage

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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. (Thomas: Labor und Diagnose; CLSI Guideline GP44-A4)

## 7 Assay Procedure

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### 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).

## 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 twice, for each subclass separately.**

	For <i>QUANTITATIVE</i> interpretation				For <i>QUALITATIVE</i> interpretation			
	1	2	3	4...	1	2	3	4...
<b>A</b>	Cal A	Cal E	P1		<b>A</b>	NC	P2	
<b>B</b>	Cal A	Cal E	P1		<b>B</b>	NC	P2	
<b>C</b>	Cal B	Cal F	P2		<b>C</b>	CC	P3	
<b>D</b>	Cal B	Cal F	P2		<b>D</b>	CC	P3	
<b>E</b>	Cal C	PC	P3		<b>E</b>	PC	...	
<b>F</b>	Cal C	PC	P3		<b>F</b>	PC	...	
<b>G</b>	Cal D	NC	...		<b>G</b>	P1	...	
<b>H</b>	Cal D	NC	...		<b>H</b>	P1	...	

CalA: calibrator A

CalB: calibrator B

CalC: calibrator C

CalD: calibrator D

CalE: calibrator E

CalF: calibrator F

PC: positive control

NC: negative control


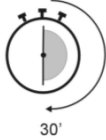
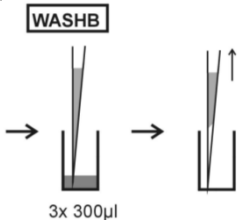
CC: cut-off calibrator

P1: patient 1

P2: patient 2

P3: patient 3

## 7.3 Test Steps


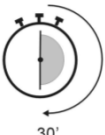
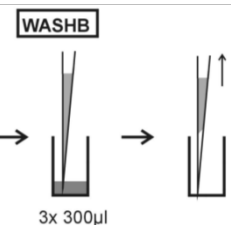
Step	Description
1.	Ensure preparations from step 7.1 above have been carried out prior to pipetting.
2.	Use the following steps in accordance with quantitative/ qualitative interpretation results desired:
<b>CONTROLS &amp; SAMPLES</b>	
3.	 <p>Pipette into the designated wells as described in chapter 7.2 above, 100 µl of either:</p> <ol style="list-style-type: none"> <li>Calibrators (CAL.A to CAL.F) for <i>QUANTITATIVE</i> or</li> <li>Cut-off Calibrator (CC) for <i>QUALITATIVE</i> interp.</li> </ol> <p>and 100 µl of each of the following:</p> <ul style="list-style-type: none"> <li>Negative control (NC) and Positive control (PC), and</li> <li>Patients diluted serum (P1, P2...)</li> </ul>
4.	 <p>Incubate for 30 minutes at 20-32°C/68-89.6°F.</p>
5.	 <p>Wash 3x with 300 µl washing buffer (diluted 1:50).</p>




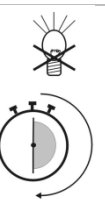


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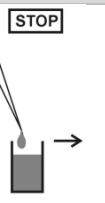

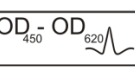
**CONJUGATE**

6.	 +100 µl	Pipette 100 µl conjugate into each well.
7.	 30'	Incubate for 30 minutes at 20-32°C/68-89.6°F.
8.	 3x 300µl	Wash 3x with 300 µl washing buffer (diluted 1:50).

**SUBSTRATE**

9.	 +100 µl	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 µl	Pipette 100 µl stop solution into each well, using the same order as pipetting the substrate.
12.	 5'	Incubate 5 minutes minimum.
13.		Agitate plate carefully for 5 sec.
14.	 OD <sub>450</sub> - OD <sub>620</sub> 450/620 nm	Read absorbance at 450 nm (recommended 450/620 nm) within 30 minutes.



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## 8 Quantitative and Qualitative Interpretation

For **quantitative interpretation** establish the standard curve by plotting the **optical density (OD) of each calibrator (y-axis)** with respect to the corresponding concentration values in U/ml (x-axis). For best results we recommend log/lin coordinates and 4-Parameter Fit. From the OD of each sample, read the corresponding antibody concentrations expressed in U/ml.

Normal Range	Equivocal Range	Positive Results
< 12 U/ml	12 - 18 U/ml	>18 U/ml

### Example of a standard curve

**Do NOT use this example for interpreting patient's result**

Calibrators IgG/M	OD 450/620 nm	CV % (Variation)
0 U/ml	0,041	1,7
3 U/ml	0,132	0,0
10 U/ml	0,280	2,6
30 U/ml	0,584	2,1
100 U/ml	1,211	0,0
300 U/ml	2,042	0,6

### Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (U/ml)
P 01	0.772/0.752	0.757	45.9
P 02	1.058/1.038	1.348	123.3

Samples above the highest calibrator range should be reported as >Max. They should be diluted as appropriate and re-assayed. Samples below calibrator range should be reported as < Min.

For lot specific data, see enclosed quality control leaflet. Medical laboratories might perform an in-house quality control by using own controls and/or internal pooled sera, as foreseen by national regulations.

Each laboratory should establish its own normal range based upon its own techniques, controls, equipment and patient population according to their own established procedures.

In case that the values of the controls do not meet the criteria the test is invalid and has to be repeated.

The following technical issues should be verified: Expiration dates of (prepared) reagents, storage conditions, pipettes, devices, photometer, incubation conditions and washing methods.

If the items tested show aberrant values or any kind of deviation or that the validation criteria are not met without explicable cause please contact the manufacturer or the supplier of the test kit.

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

**Negative:** OD patient < 0.8 x OD cut-off  
**Equivocal:** 0.8 x OD cut-off ≤ OD patient ≤ 1.2 x OD cut-off  
**Positive:** OD patient > 1.2 x OD cut-off

## 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:	
Conjugate G	1.33 U/ml
Conjugate M	2.14 U/ml
Storage:	at 2-8°C/35-46°F use original vials only.
Number of determinations:	96 tests

## 10 Performance Data

### 10.1 Normal Range

Sera of healthy donors have been investigated on AESKULISA β2-Glyco-GM and resulted in the following distribution:

#### Conjugate G

Number of Samples	negative	borderline	positive
200	198 (99%)	2 (1%)	0 (0%)

#### Conjugate M

Number of Samples	negative	borderline	positive
200	195 (97.5%)	3 (1.5%)	2 (1%)

We also recommend that each laboratory should establish its own normal range.

### 10.2 Precision

Precision of test results obtained with AESKULISA β2-Glyco-GM, REF 3206 were assessed by the determination of the intra- and inter assay precision as well as the lot-to-lot variance by the analysis of multiple samples of different antibody activities.

#### Conjugate G

Sample ID	Intra Assay Precision		Inter Assay Precision		LOT to LOT Precision	
	Mean (U/ml)	CV	Mean (U/ml)	CV	Mean (U/ml)	CV
Sample 1	6.9	9.6%	6.9	14.1%	6.1	7.8%
Sample 2	12.2	6.9%	12.2	9.4%	12.0	12.3%
Sample 3	19.6	7.2%	19.6	10.8%	19.1	10.1%
Sample 4	41.5	8.2%	41.5	14.4%	37.9	14.7%
Sample 5	190.0	4.1%	190.0	10.4%	173.2	8.0%
Sample 6	284.3	4.2%	284.3	9.8%	252.3	5.9%

### Conjugate M

Sample ID	Intra Assay Precision		Inter Assay Precision		LOT to LOT Precision	
	Mean (U/ml)	CV	Mean (U/ml)	CV	Mean (U/ml)	CV
Sample 1	6.5	5.1%	6.5	8.4%	6.8	6.8%
Sample 2	19.1	4.2%	19.1	7.4%	19.7	15.2%
Sample 3	25.1	7.1%	25.1	9.9%	27.1	15.0%
Sample 4	75.0	4.5%	75.0	6.5%	78.4	11.0%
Sample 5	184.0	8.7%	184.0	11.7%	195.2	14.4%
Sample 6	255.3	10.5%	255.3	14.7%	299.7	18.5%

## 10.3 Sensitivity and Specificity

### Analytical sensitivity

The analytical sensitivity has been assessed by multiple analysis of sample buffer and low positive samples and calculating the limit of detection.

For AESKULISA β2-Glyco-GM, REF 3206, conjugate G, a **LoD of 1.33 U/ml** has been determined.

For AESKULISA β2-Glyco-GM, REF 3206, conjugate M, a **LoD of 2.14 U/ml** has been determined.

## 10.4 Linearity

Three sera covering the whole test range were diluted serially with a negative serum sample. Measured and expected values of the distinct dilutions were used to calculate a linear regression. According to results of linearity testing a measurable range of 3 - 300 U/ml was determined for AESKULISA β2-Glyco-GM.

## 10.5 Calibration

Due to the lack of international reference calibration this assay is calibrated in arbitrary units (U/ml). **AESKULISA β2-Glyco-GM** is standardized using the Sapporo-Standards HCAL for IgG and EY2C9 for IgM.

## 11 Disposal

Please observe the relevant statutory requirements!



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## 12 Literature

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**Schousboe I. (1985):** b2-glycoprotein I: a plasma inhibitor of the contact activation of the intrinsic blood coagulation pathway. Blood 66: 1086-1091.

**Nimpf J, Bevers EM, Bomans PH, Till U, Wurm H, Kostner GM, Zwaal RF et al. (1986):** Prothrombinase activity of human platelets is inhibited by b2-glycoprotein I. Biochim Biophys Acta 884: 142-149.

**Nimpf J, Wurm H, Kostner GM. (1987):** β2-glycoprotein I (apo-H) inhibits the release reaction of human platelets during ADP-induced aggregation.

**Harris, E.N., Gharavi, A.E., Boey, M.L., et al. (1983).** Anticardiolipin antibodies: Detection by radioimmunoassay and association with thrombosis in systemic lupus erythematosus. Lancet Nov 26, 1211-1214.






**Galli M, Comfurius P, Maassen C, et al. (1990):** Anticardiolipin antibodies directed not to cardiolipin but to a plasma protein cofactor. Lancet 335: 1544-1547.

**Wöhrle R, Matthias T, von Landenberg P, Oppermann M, Helmke K, Förger F (2000).** Clinical relevance of antibodies against different phospholipids. Journal of Autoimmunity 15, A60.

**Lothar Thomas:** Labor und Diagnose. Indikation und Bewertung von Laborbefunden für die medizinische Diagnostik., 8. Auflage, TH Books

**CLSI Guideline GP44-A4:** Procedures for the Handling and Processing of Blood Specimens for Common Laboratory Tests



<b>IVD</b>	- Diagnosi in vitro	- For in vitro diagnostic use
	- Pour diagnostic in vitro	- Para uso diagnóstico in vitro
	- In Vitro Diagnostikum	- In Vitro Διαγνωστικό μέσο
	- Para uso Diagnóstico in vitro	
<b>REF</b>	° Numero d'ordine	° Catalogue number
	° Référence Catalogue	° Numéro de catálogo
	° Bestellnummer	° Αριθμός παραγγελίας
<b>LOT</b>	° Número de catálogo	
	° Descrizione lotto	° Lot
	° Lot	° Lote
<b>CE</b>	° Chargen Bezeichnung	° Χαρακτηρισμός παρτίδας
	° Lote	
	° Conformità europea	° EC Declaration of Conformity
	° Déclaration CE de Conformité	° Declaración CE de Conformidad
	° Europäische Konformität	° Ευρωπαϊκή συμφωνία
	° Déclaration CE de Conformidade	
	° 96 determinazioni	° 96 tests
	° 96 tests	° 96 pruebas
	° 96 Bestimmungen	° 96 προσδιορισμοί
	° 96 Testes	
	° Rispettare le istruzioni per l'uso	° See instructions for use
	° Voir les instructions d'utilisation	° Ver las instrucciones de uso
	° Gebrauchsanweisung beachten	° Λάβετε υπόψη τις οδηγίες χρήσης
	° Ver as instruções de uso	
	° Da utilizarsi entro	° Use by
	° Utilise avant le	° Utilizar antes de
	° Verwendbar bis	° Χρήση μέχρι
	° Utilizar antes de	
	° Conservare a 2-8°C	° Store at 2-8°C (35-46°F)
	° Conservar à 2-8°C	° Conservar a 2-8°C
	° Lagerung bei 2-8°C	° Φυλάσσεται στους 2-8°C
	° Conservar entre 2-8°C	
	° Prodotto da	° Manufactured by
<b>CO-CAL</b>	° Fabriqué par	° Fabricado por
	° Hergestellt von	° Κατασκευάζεται από
	° Fabricado por	
	° Calibratore cut-off	° Cut off Calibrator
<b>CON+</b>	° Etalon Seuil	° Calibrador de cut-off
	° Grenzwert Kalibrator	° Οριακός ορός Αντιδραστήριο βαθμονόμησης
	° Calibrador de cut-off	
	° Controllo positivo	° Positive Control
<b>CON-</b>	° Contrôle Positif	° Control Positivo
	° Positiv Kontrolle	° Θετικός ορός ελέγχου
	° Controllo positivo	
	° Controllo negativo	° Negative Control
<b>CAL</b>	° Contrôle Négatif	° Control Negativo
	° Negativ Kontrolle	° Αρνητικός ορός ελέγχου
	° Controllo negativo	
	° Calibratore	° Calibrator
<b>RC</b>	° Etalon	° Calibrador
	° Kalibrator	° Αντιδραστήριο βαθμονόμησης
	° Calibrador	
	° Recupero	° Recovery
<b>CONJ</b>	° Corrélation	° Recuperado
	° Wiederfindung	° Ανάκτηση
	° Recuperação	
	° Coniugato	° Conjugate
<b>MP</b>	° Conjugé	° Conjugado
	° Konjugat	° Σύζευγμα
	° Conjugado	
	° Micropiastra rivestita	° Coated microtiter plate
<b>WASHB 50x</b>	° Microplaque sensibilisée	° Microplaca sensibilizada
	° Beschichtete Mikrotiterplatte	° Επικαλυμμένη μικροπλάκα
	° Microplaca revestida	
	° Tampone di lavaggio	° Wash buffer
<b>SUB</b>	° Tampon de Lavage	° Solución de lavado
	° Waschpuffer	° Ρυθμιστικό διάλυμα πλύσης
	° Solução de lavagem	
	° Tampone substrato	° Substrate buffer
<b>STOP</b>	° Substrat	° Tampón sustrato
	° Substratpuffer	° Ρυθμιστικό διάλυμα υποστρώματος
	° Substrato	
	° Reagente bloccante	° Stop solution
<b>SB 5x</b>	° Solution d'Arrêt	° Solución de parada
	° Stopreagenz	° Αντιδραστήριο διακοπής αντίδρασης
	° Solução de paragem	
	° Tampone campione	° Sample buffer
	° Tampon Echantillons	° Tampón Muestras
	° Probenpuffer	° Ρυθμιστικό διάλυμα δειγμάτων
	° Diluente de amostra	