# **Instruction manual**

# **Contents**

	1. Intended Use	1
	2. Clinical Applications 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	3
	7. Assay Procedure	4
	8. Quantitative and Qualitative Interpretation	5
	9. Technical Data	6
•	10. Performance Data	6-7
•	I1. Literature	7
	A : Pipetting scheme	8
	B : Test Procedure	9

002 : 2007-08-28 REF 3203 Cardiolipin-A

#### 1. Intended Use

**AESKULISA Cardiolipin-A** is a solid phase enzyme immunoassay employing highly purified cardiolipin plus native **human** ß2-glycoprotein I for the quantitative and qualitative detection of IgA antibodies against cardiolipin in human serum. Anti-cardiolipin antibodies mainly recognize specific epitopes on a complex composed out of cardiolipin and ß2-glycoprotein I which are expressed only when ß2-glycoprotein I interacts with cardiolipin. The assay is an aid in the diagnosis and risk estimation of thrombosis in patients with systemic lupus erythematosus (SLE).

# 2. Clinical Application and Principle of the Assay

Antibodies against cardiolipin belong to the group of anti-phospholipid antibodies specific for negatively charged phospholipids, components of biological membranes. Cardiolipin is an acidic phospholipid derived from glycerol and was namend because of its isolation from bovine heart in 1941. Anti-phospholipid antibodies are frequently found in sera of patients with systemic lupus erythematosus (SLE) and related diseases. The prevalence of anti-cardiolipin antibodies in SLE is 24-50 %.

The occurrence of anti-cardiolipin antibodies in patients with SLE and related diseases is typical for a secondary anti-phospholipid syndrome (APS). In contrast, anti-cardiolipin antibodies in patients with no other autoimmune diseases characterize the primary anti-phospholipid syndrome (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 infarct). The exact mechanism by which pathogenic anti-phospholipid antibodies induce thrombosis is not yet revealed fully.

## 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 rate 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.

Page 1 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

#### 3. Kit Contents

To be reconstituted:

5x Sample Buffer 1 vial, 20 ml - 5x concentrated (capped white: yellow solution)

Containing: Tris, NaCl, BSA, sodium azide < 0.1% (preservative)

50x Wash Buffer 1 vial, 20 ml - 50x concentrated (capped white: green solution)

Containing: Tris, NaCl, Tween 20, sodium azide < 0.1% and (preservative)

Ready to use:

Negative Control 1 vial, 1.5 ml (capped green: colorless solution)

Containing: Human serum (diluted), sodium azide < 0.1% (preservative)

Positive Control 1 vial, 1.5 ml (capped red: yellow solution)

Containing: Human serum (diluted), sodium azide < 0.1% (preservative)

Cut-off Calibrator 1 vial, 1.5 ml (capped blue: yellow solution)

Containing: Human serum (diluted), sodium azide < 0.1% (preservative)

Calibrators 6 vials, 1.5 ml each 0, 3, 10, 30, 100, 300 APL/ml

(color increasing with concentration: yellow solutions)

Containing: Human serum (diluted), sodium azide < 0.1% (preservative)

Conjugate 1 vial,15 ml IgA (capped red: red solution)

Containing: Anti-human immunoglobulins conjugated to horseradish peroxidase (preservative)

TMB Substrate 1 vial, 15 ml (capped black)

Containing: Stabilized TMB/H2O2

Stop Solution 1 vial, 15 ml (capped white: colorless solution)

Containing: 1M Hydrochloric Acid

Microtiterplate 12x8 well strips with breakaway microwells

Coating see paragraph 1

#### Material required but not provided:

Microtiter plate reader 450 nm reading filter and optional 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 (100-1000ml). 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 for 1 month at 4°C, at least. **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.** 

Page 2 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

#### 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 normal use, refer to the following for maximum safety:

#### Recommendations and precautions

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

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

Do not smoke, eat or drink when manipulating the kit.

Do not pipette by mouth.

All human source material used for some reagents of this kit (controls, standards e.g.) has been tested by approved methods and found negative for HbsAg, Hepatitis C and HIV 1. However, no test can guarantee the absence of viral agents in such material completely. Thus handle kit controls, standards and patient samples as if capable of transmitting infectious diseases and according to national requirements.

#### 5.2 General directions for use

Do not mix or substitute reagents 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

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 immediately, respectively stored tightly closed at  $2-8^{\circ}\text{C}/35-46^{\circ}\text{F}$  up to three days, or frozen at  $-20^{\circ}\text{C}/-4^{\circ}\text{F}$  for longer periods.

Page 3 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

# 7. Assay Procedure

## 7.1 Preparations prior to pipetting

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).

## 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 Work flow

For pipetting scheme see Annex A, for the test procedure see Annex B We recommend pipetting samples and calibrators in duplicate.

Cut-off calibrator should be used for qualitative testing only.

- Pipette 100 μl of each patient's diluted serum into the designated microwells.
- Pipette 100 µl calibrators OR cut-off calibrator and negative and positive controls into the designated wells.
- Incubate for 30 minutes at 20-32°C/68-89.6°F.
- Wash 3x with 300 μl washing buffer (diluted 1:50).
- Pipette 100 µl conjugate into each well.
- Incubate for 30 minutes at 20-32°C/68-89.6°F.
- Wash 3x with 300 µl washing buffer (diluted 1:50).
- Pipette 100 µl TMB substrate into each well.
- Incubate for 30 minutes at 20-32°C/68-89.6°F, protected from intense light.
- Pipette 100 µl stop solution into each well, using the same order as pipetting the substrate.
- Incubate 5 minutes minimum.
- Agitate plate carefully for 5 sec.
- Read absorbance at 450 nm (optionally 450/620 nm) within 30 minutes.

Page 4 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

## 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 APL/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 APL/ml.

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

#### Example of a standard curve

We recommend pipetting calibrators in parallel for each run.

Calibrators IgA	OD 450/620 nm	CV % (Variation)
0 APL/ml	0.066	3.2
3 APL/ml	0.162	0.4
10 APL/ml	0.291	1.7
30 APL/ml	0.597	1.3
100 APL/ml	1.101	2.9
300 APL/ml	2.039	0.4

## Example of calculation

Patient	Replicate (OD)	Mean (OD)	Result (APL/ml)
	•		
P 01	0.772/0.752	0.762	48.8
P 02	1.058/1.038	1.048	82.9

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 EU regulations.

## Do not use this example for interpreting patients results!

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

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

Negative: OD patient < 0.8 x OD cut-off

Equivocal:  $0.8 \times OD_{cut-off} \le OD_{patient} \le 1.2 \times OD_{cut-off}$ 

Positive OD patient > 1.2 x OD cut-off

Page 5 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

### 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 APL/ml

Analytical sensitivity: 1.0 APL/ml

**Storage:** at 2-8°C/35-46°F use original vials, only

Number of determinations: 96 tests

#### 10. Performance Data

#### 10.1 Analytical sensitivity

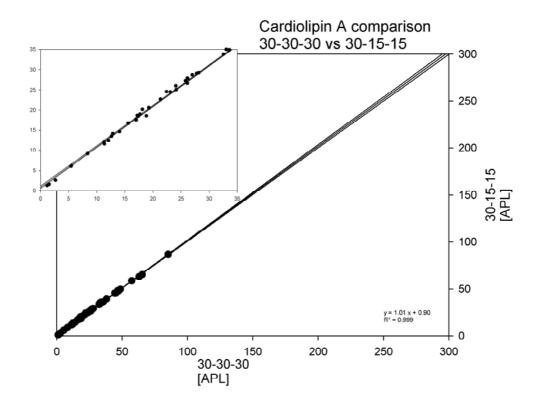
Testing sample buffer 30 times on AESKULISA Cardiolipin-A (REF7203) gave an analytical sensivity of 1.0 APL/ml.

#### 10.2 Specificity and Sensitivity

The microplate is coated with **highly purified cardiolipin and native human ß2-glycoprotein I.** No crossreactivities to other autoantigens have been found. Antibodies against Cardiolipin can be found in 70% of SLE patients. The data has been aguired with the *AESKULISA Cardiolipin-A (REF7203)*.

#### Correlation:

The comparability of performance data was assessed with 50 sera tested on both, *AESKULISA* 7302 and *AESKULISA* 3203. A linear regression analysis of the two products showed that the two products are equivalent. Included in these sera are 33 sera close to cut-off.



Page 6 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

#### 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.

		measured	expected	
Sample	Dilution	concentration	concentration	Recovery
No.	Factor	(APL/ml)	(APL/ml)	(%)
1	1 / 100	63.1	68.0	93.0
	1 / 200	33.7	34.0	99.1
	1 / 400	15.9	17.0	93.5
	1 / 800	9.0	8.5	105.9
2	1 / 100	138.6	141.8	97.7
	1 / 200	70.1	70.9	98.9
	1 / 400	33.2	35.5	93.5
	1 / 800	17.9	17.7	101.1

#### 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.

In	tra-Assa	ay
Sample	Mean	CV
No.	(APL/ml)	(%)
1	586.2	1.5
2	67.4	3.4
3	34.5	7.6

	nter-Assa	ıy
Sample	Mean	CV
No.	(APL/ml)	(%)
1	499.8	0.9
2	68.9	1.7
3	40.7	4.6

# 10.5 Calibration

Because of the lack of WHO reference material, *AESKULISA* Cardiolipin-A is calibrated against reference sera from N.E. Harris, Louisville. The results are expressed in APL/ml for IgA.

#### 11. Literature

1. Asherton, R.A., Harris, E.N. (1986).

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2. Boey, M.L., Colaco, C.B., Gharavi, A.E., et al. (1983).

Thrombosis in systemic lupus erythematosus: striking association with the presence of circulating lupus anticoagulant.

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Lupus anticoagulant: ananalysis of the clinical and laboratory features of 219 cases. Am. J. Hematol. 19, 265-267.

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# **ANNEX A: Pipetting scheme**

We suggest pipetting calibrators, controls and samples as follows:

For **quantitative interpretation** use calibrators to establish a standard curve.

For qualitative interpretation use cut-off calibrator.

			ive inte	•			-	<b>alitativ</b> ibrator	e inter	pretati	<b>on</b> use	cut-
	1	2	3	4	5	6	7	8	9	10	11	12
Α	CalA	CalE	P1				NC	P2				
В	CalA	CalE	P1				NC	P2				
С	CalB	CalF	P2				CC	P3				
D	CalB	CalF	P2				CC	P3				
Е	CalC	PC	P3				PC					
F	CalC	PC	P3				PC					
G	CalD	NC					P1					
Н	CalD	NC					P1					

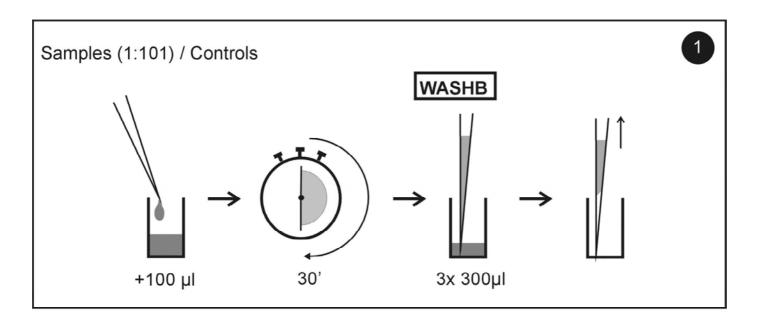
CalA: calibrator A, CalB: calibrator B, CalC: calibrator C, CalD: calibrator D, CalE: calibrator E,

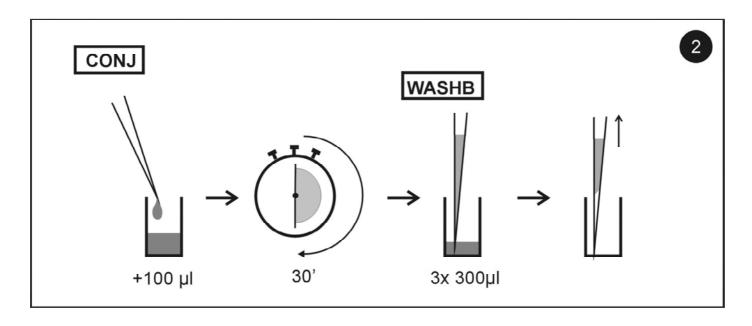
CalF: calibrator F PC: positive control NC: negative control CC: Cut-off calibrator

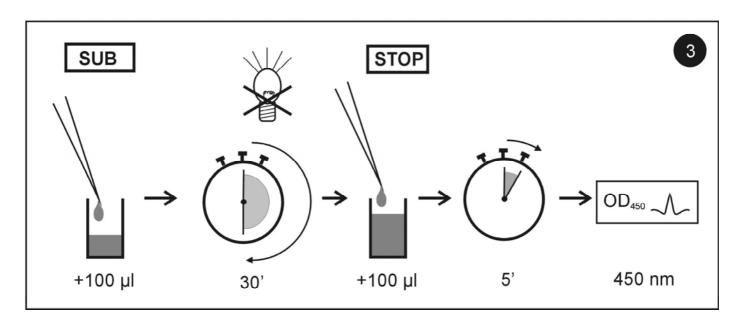
P1: patient 1 P2: patient 2 P3: patient 3

Page 8 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

# **Annex B: Test Procedure**







Page 9 of 9 002 : 2007-08-28 REF 3203 Cardiolipin-A

ssay/Test:			- -	Incubation / Inkub. :	Inkub. :	1-	mim_		Date,	Date/ Datum:		
emperatur	emperature/Temperatur:	tur:	- Р - Н	O <sub>o</sub>		2.	mim_	3	11/orthogo	. History		
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	♦ Diagnosi in vitro	◆ For in vitro diagnostic use
IVD	<ul> <li>◆ Pour diagnostic in vitro</li> </ul>	<ul> <li>Para uso diagnóstico in vitro</li> </ul>
ועטו	◆ In Vitro Diagnostikum	♦ In Vitro Διαγνωστικό μέσο
	◆ Para uso Diagnóstico in vitro	
	◆ Numero d'ordine	<ul> <li>Cataloge number</li> </ul>
DEE	<ul> <li>Référence Catalogue</li> </ul>	<ul> <li>Numéro de catálogo</li> </ul>
REF	◆ Bestellnummer	<ul><li>◆ Αριθμός παραγγελίας</li></ul>
	♦ Número de catálogo	
	◆ Descrizione lotto	♦ Lot
	♦ Lot	♦ Lote
LOT	◆ Chargen Bezeichnung	<ul> <li>Χαρακτηρισμός παρτίδας</li> </ul>
	♦ Lote	<ul> <li>▼ Λαρακτηρισμός παρτίσας</li> </ul>
		. 50 5 1 11 10 10 1
	◆ Conformità europea	◆ EC Declaration of Conformity
C€	Déclaration CE de Conformité	Declaración CE de Conformidad
	◆ Europäische Konformität	<ul><li>◆ Ευρωπαϊκή συμφωνία</li></ul>
	◆ Déclaração CE de Conformidade	
	<ul> <li>◆ 96 determinazioni</li> </ul>	♦ 96 tests
\96/	♦ 96 tests	<ul> <li>◆ 96 pruebas</li> </ul>
	♦ 96 Bestimmungen	<ul><li>96 προσδιορισμοί</li></ul>
•	♦ 96 Testes	
	Rispettare le istruzioni per l'uso	♦ See instructions for use
<b>—</b>	◆ Voir les instructions d'utilisation	♦ Ver las instrucciones de uso
i		
	◆ Gebrauchsanweisung beachten     ◆ Vor as instrucões do uso	<ul> <li>Λάβετε υπόψη τις οδηγίες χρήσης</li> </ul>
	♦ Ver as instrucões de uso	A Hoo by
	Da utilizzarsi entro     Litilia avant la	♦ Use by
<u> </u>	Utilise avant le	Utilizar antes de
	Verwendbar bis	<ul><li>Χρήση μέχρι</li></ul>
	◆ Utilizar antes de	
<b>∩</b> ,+8°C	♦ Conservare a 2-8°C	♦ Store at 2-8°C (35-46°F)
<b>U</b> ∕-+8 C	♦ Conserver à 2-8°C	♦ Conservar a 2-8°C
+2°C- <b>/</b>	◆ Lagerung bei 2-8°C	<ul> <li>Φυλάσσεται στους 2-8°C</li> </ul>
<b>©</b>	◆ Conservar entre 2-8°C	· · · · · · · · · · · · · · · · · · ·
	◆ Prodotto da	♦ Manufactured by
		· · · · · · · · · · · · · · · · · · ·
	♦ Fabriqué par	♦ Fabricado por
	Hergestellt von	<ul> <li>Κατασκευάζεται από</li> </ul>
	♦ Fabricado por	
	<ul> <li>◆ Calibratore cut-off</li> </ul>	<ul> <li>◆ Cut off Calibrator</li> </ul>
COCAL	◆ Etalon Seuil	<ul> <li>Calibrador de cut-off</li> </ul>
CO-CAL	♦ Grenzwert Kalibrator	<ul> <li>Οριακός ορός Αντιδραστήριο βαθμονόμησης</li> </ul>
	♦ Calibrador de cut-off	
	◆ Controllo positivo	◆ Positive Control
CONI	◆ Contrôle Positif	◆ Control Positivo
ICONI+	Positiv Kontrolle	
5571		♦ Θετικός ορός ελέγχου
	◆ Controlo positivo	A Nagative Control
	◆ Controllo negativo	Negative Control     Control Negative
CONI-	◆ Contrôle Négatif	◆ Control Negativo
OON -	♦ Negativ Kontrolle	<ul><li>◆ Αρνητικός ορός ελέγχου</li></ul>
	◆ Controlo negativo	
	◆ Calibratore	◆ Calibrator
CAL		<ul><li>◆ Calibrator</li><li>◆ Calibrador</li></ul>
CAL	◆ Calibratore	
CAL	◆ Calibratore ◆ Etalon	◆ Calibrador
CAL	Calibratore Etalon Kalibrator Calibrador	<ul><li>◆ Calibrador</li><li>◆ Αντιδραστήριο βαθμονόμησης</li></ul>
CAL		<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> </ul>
CAL		<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> </ul>
CAL	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> </ul>
CAL	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperação	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> </ul>
CAL	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> </ul>
CAL RC	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wederfindung Recuperacão Coniugato Conjugé	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> </ul>
CAL	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> </ul>
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CAL	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> </ul>
	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Coniugato Conjugé Konjugat Conjugado	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> </ul>
CAL RC CONJ	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugé Konjugat Conjugado Micropiastra rivestita	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> </ul>
	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperação Conjugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> </ul>
	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίcroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> </ul>
MP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugát Konjugat Conjugát Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίcroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> </ul>
MP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wederfindung Recuperacão Conjugát Konjugat Conjugát Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> </ul>
	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperação Conjugát Konjugat Conjugád Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίcroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> </ul>
MP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperação Conjugát Konjugat Conjugát Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> </ul>
PINP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> </ul>
PINP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugato Conjugé Konjugato Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>ΜίστορΙαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Ρinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> </ul>
MP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> </ul>
PINP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugato Conjugé Konjugato Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>ΜίστορΙαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> </ul>
PINP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίcroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Ρίηρlate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáe Konjugat Conjugáe Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate Pinplatte Pinplate vestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μicroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugáe Konjugat Conjugáe Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Tampón sustrato</li> </ul>
PINP	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substraty	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μicroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίστορίαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>ΜίστορΙαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Ρinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίστορίαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugato Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrato Reagente bloccante	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>ΜίστορΙαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Ρinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugat Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate ad aghi rivestita Pinplate ad aghi rivestita Pinplate ad aghi rivestita Pinplate Pinplatte Pinplate Pinplatte Pinplate ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate ad lavage Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Reagente bloccante Solution d'Arrêt	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μίστορlaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Ρίηρlate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> <li>Solución de parada</li> </ul>
PINP WASHB 50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperado Conjugát Conjugát Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Piastra ad aghi rivestita Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substratpuffer Substrato Reagente bloccante Solucão de paragem Solucão de paragem	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Μicroplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> <li>Solución de parada</li> <li>Αντιδραστήριο διακοπής αντίδρασης</li> </ul>
PINP WASHB 50x SUB	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugad Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substratu Reagente bloccante Solution d'Arrêt Solucão de paragem Tampone campione	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> <li>Solución de parada</li> <li>Αντιδραστήριο διακοπής αντίδρασης</li> <li>Sample buffer</li> </ul>
PINP WASHB 50x SUB	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugé Konjugat Conjugado Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substrat Substrato Reagente bloccante Solucão de paragem Tampone campione	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>ΜίστορΙαςα sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> <li>Solución de parada</li> <li>Αντιδραστήριο διακοπής αντίδρασης</li> <li>Sample buffer</li> <li>Tampón Muestras</li> </ul>
PINP WASHB   50x	Calibratore Etalon Kalibrator Calibrador Recupero Corrélation Wiederfindung Recuperacão Conjugato Conjugato Conjugad Micropiastra rivestita Microplaque sensibilisée Beschichtete Mikrotiterplatte Microplaca revestida Pinplate sensibilisée Beschichtete Pinplatte Pinplate revestida Pinplate revestida Tampone di lavaggio Tampon de Lavage Waschpuffer Solucão de lavagem Tampone substrato Substrat Substratu Reagente bloccante Solution d'Arrêt Solucão de paragem Tampone campione	<ul> <li>Calibrador</li> <li>Αντιδραστήριο βαθμονόμησης</li> <li>Recovery</li> <li>Recuperado</li> <li>Ανάκτηση</li> <li>Conjugate</li> <li>Conjugado</li> <li>Σύζευγμα</li> <li>Coated microtiter plate</li> <li>Microplaca sensibilizada</li> <li>Επικαλυμμένη μικροπλάκα</li> <li>Coated pinplate</li> <li>Pinplate sensibilizada</li> <li>Επικαλυμμένη πλάκα Pin</li> <li>Wash buffer</li> <li>Solución de lavado</li> <li>Ρυθμιστικό διάλυμα πλύσης</li> <li>Substrate buffer</li> <li>Τampón sustrato</li> <li>Ρυθμιστικό διάλυμα υποστρώματος</li> <li>Stop solution</li> <li>Solución de parada</li> <li>Αντιδραστήριο διακοπής αντίδρασης</li> <li>Sample buffer</li> </ul>