

Instructions for Use



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Glucagon-Like Peptide-1 (7-36) active ELISA

Enzyme immunoassay for the quantitative determination
of active Glucagon-Like Peptide-1 (7-36) in plasma samples.

REF 30216294

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For illustrative purposes only.
To perform the assay the instructions for use provided with the kit have to be used.

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Flughafenstrasse 52a
22335 Hamburg, Germany

Always there for you



EDI™ Active GLP-1 (7-36) Specific ELISA Kit

Enzyme Linked ImmunoSorbent Assay (ELISA) for the measurement of active Glucagon-like peptide-1 (7-36) Level in Test Samples



KT 871



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For Research Use Only.**Not for use in diagnostic procedure.**

INTENDED USE

This high sensitive ELISA (enzyme-linked immunosorbent assay) kit is produced for the exclusively quantitative determination of bioactive glucagon-like peptide-1 (7-36) [GLP-1 (7-36)] level in plasma samples. The primary amino acid sequence of GLP-1 peptide is identical among mammalian species, i.e. rat, mouse, pig, human, etc. **This kit is for research purposes only.**

ASSAY PRINCIPLE

This ELISA is designed, developed and produced for the quantitative measurement of bioactive GLP-1 (7-36) in plasma sample. The assay utilizes the two-site “sandwich” technique with two selected GLP-1 (7-36) specific antibodies.

Assay standards, controls and test samples are directly added to wells of a microplate that is coated with streptavidin. Subsequently, a mixture of biotinylated GLP-1 (7-36) specific antibody and a horseradish peroxidase (HRP)-conjugated GLP-1 (7-36) specific antibody is added to each well. After the first incubation period, a “sandwich” immunocomplex of “Streptavidin – Biotin-Antibody – GLP-1(7-36) – HRP-conjugated antibody” is formed and attached to the wall of the plate. The unbound HRP-conjugated antibody is removed in a subsequent washing step. For the detection of this immunocomplex, each well is then incubated with a substrate solution in a timed reaction and then measured in a spectrophotometric microplate reader. The enzymatic activity of the immunocomplex bound to GLP-1 (7-36) on the wall of the microtiter well is directly proportional to the amount of GLP-1 (7-36) in the sample.

REAGENTS: Preparation and Storage

This test kit must be stored at 2 – 8°C upon receipt. For the expiration date of the kit refer to the label on the kit box. All components are stable until this expiration date.

Prior to use allow all reagents to come to room temperature.

Reagents from different kit lot numbers should not be combined or interchanged.

1. Streptavidin Coated Microplate (Cat. No. 10040B)

One well-breakable microplate with 12 x eight strips (96 wells total) coated with streptavidin. The plate is framed and sealed in a foil zipper bag with a desiccant. This reagent should be stored at 2 – 8°C and is stable until the expiration date on the kit box.

2. GLP-1 Tracer Antibody (Cat. No. 30229)

One vial containing 0.6 mL HRP-labeled Anti-GLP-1 specific antibody in a stabilized protein matrix. This reagent must be mixed with GLP-1 (7-36) Capture Antibody and the tracer antibody diluent before use (for details see Assay Procedure). This reagent should be stored at 2 – 8°C and is stable until the expiration date on the kit box.

3. GLP-1 (7-36) Capture Antibody (Cat. No. 30230)

One vial containing 0.6 mL of biotinylated GLP-1 (7-36) specific antibody. It should be used only after mixed with GLP-1 Tracer Antibody and the tracer antibody diluent according to the assay procedures. This reagent should be stored at 2 – 8°C and is stable until the expiration date on the kit box.

4. ELISA Wash Concentrate (Cat. No. 10010)

One bottle contains 30 mL of 30-fold concentrate. Before use the contents must be diluted with 870 mL of distilled water and mixed well. Upon dilution this yields a working wash solution containing a surfactant in phosphate buffered saline with a non-azide and non-mercury based preservative. The diluted wash buffer should be stored at room temperature and is stable until the expiration date on the kit box.

5. ELISA HRP Substrate (Cat. No. 10020)

One bottle contains 24 mL of tetramethylbenzidine (TMB) with stabilized hydrogen peroxide. This reagent should be stored at 2 – 8°C and is stable until the expiration date on the kit box.

6. ELISA Stop Solution (Cat. No. 30357)

One bottle contains 12 mL of sulfuric acid. This reagent should be stored at 2 – 8°C or room temperature and is stable until the expiration date on the kit box.

7. GLP-1 Standards (Cat. No. 30441 – 30446)

Six vials containing different levels of lyophilized GLP-1 (7-36) in a liquid protein matrix with a non-azide, non-mercury based preservative. **Refer to vials for exact concentration for each standard.** These reagents should be stored at 2 – 8°C and are stable until the expiration date on the kit box.

8. GLP-1 Controls (Cat. No. 30447 – 30448)

Two vials containing different levels of lyophilized GLP-1 (7-36) in a liquid protein matrix with a non-azide, non-mercury based preservative. **Refer to vials for exact concentration range for each control.** Both controls should be stored at 2 – 8°C and are stable until the expiration date on the kit box.

9. Tracer Antibody Diluent (Cat. No. 30017)

One vial containing 12 mL ready-to-use buffer. It should be used only for tracer antibody dilution according to the assay procedures. This reagent should be stored at 2 – 8°C and is stable until the expiration date on the kit box.

SAFETY PRECAUTIONS

The reagents must be used in a professional laboratory environment and are for research use only. Source material (e.g. highly purified bovine serum albumin) of bovine serum was derived in the contiguous 48 United States. It was obtained only from healthy donor animals maintained under veterinary supervision and found free of contagious diseases. Wear gloves while performing this assay and

handle these reagents as if they are potentially infectious. Avoid contact with reagents containing TMB, hydrogen peroxide, or sulfuric acid. TMB may cause irritation to skin and mucous membranes and cause an allergic skin reaction. TMB is a suspected carcinogen. Sulfuric acid may cause severe irritation on contact with skin. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale fumes. On contact, flush with copious amounts of water for at least 15 minutes. Use Good Laboratory Practices.

MATERIALS REQUIRED BUT NOT PROVIDED

1. Precision single channel pipettes capable of delivering 25 μ L, 50 μ L, 100 μ L, and 1000 μ L etc.
2. Repeating dispenser suitable for delivering 100 μ L.
3. Disposable pipette tips suitable for above volume dispensing.
4. Disposable 12 x 75 mm or 13 x 100 glass/plastic tubes.
5. Disposable plastic 100 mL and 1000 mL bottle with caps.
6. Aluminum foil.
7. Deionized or distilled water.
8. Plastic microtiter well cover or polyethylene film.
9. ELISA plate shaker.
10. ELISA multichannel wash bottle or automatic (semi-automatic) washing system.
11. Spectrophotometric microplate reader capable of reading absorbance at 450 nm.
12. DPP-4 Inhibitor.

SPECIMEN COLLECTION

- (1) No special preparation of individual is necessary prior to specimen collection. However, fasting sample and non-fasting/glucose induced sample may present great significance for bioactive GLP-1 (7-36) level.
- (2) **BD™ P700 Blood Collection and Preservation System** (contains a DPP-4 protease inhibitor cocktail) must be used for sample collection, if a **direct** Active GLP-1 (7-36) measurement will be performed by using this ELISA kit.
- (3) As an alternative to BD™ P-700 tubes, whole blood should be collected into a lavender top Vacutainer® EDTA-plasma tube. It is very important to immediately add appropriate amount of DPP-4 inhibitor to the collected EDTA whole blood right after the collection (**within 30 seconds**). Refer to DPP-4 inhibitor manufacturer's instruction. Invert tube to mix well and place the tube on ice bath. Centrifuge the tube at 1000 g for 10 minutes in a refrigerated centrifuge. A solid phase sample extraction procedure should be used for this type of sample before GLP-1 assay.
- (4) Plasma samples should be stored at 2 – 8°C if they will be tested within 3 hours of collection. For longer storage, it is recommended to store the plasma sample at -70°C. Aliquot samples before freezing if necessary.

ASSAY PROCEDURE

1. Reagent Preparation

- (1) Prior to use allow all reagents to come to room temperature. Reagents from different kit lot numbers should not be combined or interchanged.
- (2) ELISA Wash Concentrate (Cat. 10010) must be diluted to working solution prior use. Please see REAGENTS section for details.
- (3) Reconstitute all standards (Cat. 30441-30446) and controls (Cat. 30447-30448) by adding **1.0 mL** of demineralized water to each vial. Allow the standards and controls to sit undisturbed for 10 minutes, and then mix well by gentle vortexing. These reconstituted standards and controls must be stored at - 20°C or below. Do not exceed 3 freeze-thaw cycles.

2. Test Sample Preparation

(1) For **direct** measuring Active GLP-1 (7-36), **BD™ P-700 Blood Collection and Preservation System** must be used for sample collection. There is not any sample preparation before assay.

(2) It is optional to perform a solid-phase sample extraction procedure for all test specimens that are collected with DPP-IV inhibitor cocktail other than BD™ P-700 tubes. Epitope Diagnostics provides a validated and user friendly column extraction procedure and reagents packed as a GLP-1 sample extraction kit (Catalog No. KT-910).

3. Assay Procedure

- (1) Place a sufficient number of streptavidin-coated microwell strips/wells (Cat. 10040B) in a holder to run GLP-1 (7-36) standards, controls and unknown samples in duplicate.
- (2) Test Configuration

ROW	STRIP 1	STRIP 2	STRIP 3
A	STD 1	STD 5	SAMPLE 1
B	STD 1	STD 5	SAMPLE 1
C	STD 2	STD 6	SAMPLE 2
D	STD 2	STD 6	SAMPLE 2
E	STD 3	C 1	SAMPLE 3
F	STD 3	C 1	SAMPLE 3
G	STD 4	C 2	
H	STD 4	C 2	

- (3) Prepare GLP-1 (7-36) Antibody Mixture: mixing GLP-1 Tracer Antibody and Capture Antibody by 1:21 fold dilution of the Tracer Antibody (Cat. 30229) and by 1:21 fold dilution of the biotinylated Capture Antibody (Cat. 30230) with the Tracer antibody Diluent. For each strip, it is required to mix 1 mL of the Tracer Antibody Diluent (Cat. 30017) with 50 μ L the Capture Antibody and 50 μ L of the Tracer Antibody in a clean test tube.
- (4) Add **100 μ L** of standards, controls and test samples into the designated microwell.
- (5) Add **100 μ L** of GLP-1 (7-36) Antibody Mixture to each well
- (6) Cover the plate with one plate sealer and incubate plate at 2-8°C, static for **20 - 24 hours**.
- (7) Remove plate sealer. Aspirate the contents of each well. Wash each well 5 times by dispensing 350 μ L of working wash solution into each well and then completely aspirating the contents. Alternatively, an automated microplate washer can be used.
- (8) Add **200 μ L** of ELISA HRP Substrate (Cat. 10020) into each of the wells.
- (9) Cover the plate with one plate sealer and also with aluminum foil to avoid exposure to light.
- (10) Incubate plate at room temperature, static for **20 min**.
- (11) Remove the aluminum foil and plate sealer. Add **50 μ L** of ELISA Stop Solution (Cat. 30357) into each of the wells. Mix gently.
- (12) Read the absorbance at wavelength **450 nm/620 nm or 450 nm/650 nm** within 10 minutes in a microplate reader.

PROCEDURAL NOTES

1. Failure to collect samples as above may return erroneous results due to endogenous DPP-4 activity.
2. It is recommended that all standards, controls and unknown samples be assayed in duplicate. The average absorbance reading of each duplicate should be used for data reduction and the calculation of results.
3. For samples with concentration higher than level 6 standard, it is recommended to dilute the specimen with an appropriate GLP-1 free buffer matrix (e.g. standard zero) for a more accurate report.

- Keep light-sensitive reagents in the original amber bottles.
- Store any unused streptavidin-coated strips in the foil zipper bag with desiccant to protect from moisture.
- Careful technique and use of properly calibrated pipetting devices are necessary to ensure reproducibility of the test.
- Incubation times or temperatures other than those stated in this insert may affect the results.
- Avoid air bubbles in the microwell as this could result in lower binding efficiency and higher CV% of duplicate reading.
- All reagents should be mixed gently and thoroughly prior to use. Avoid foaming.

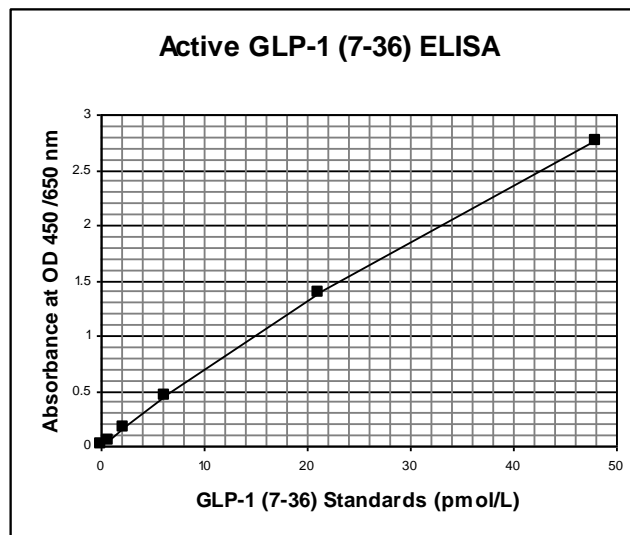
INTERPRETATION OF RESULTS

- Calculate the average absorbance for each pair of duplicate test results.
- Subtract the average absorbance of the STD 1 (0 ng/mL) from the average absorbance of all other readings to obtain corrected absorbance.
- The standard curve is generated by the corrected absorbances of all standard levels on the ordinate against the standard concentration on the abscissa using point-to-point or log-log paper. Appropriate computer assisted data reduction programs may also be used for the calculation of results. We recommend using **Point-to-Point** or **Quadratic** curve fit.

The GLP-1 (7-36) concentrations for the controls and test samples are read directly from the standard curve using their respective corrected absorbance.

EXAMPLE DATA AND STANDARD CURVE

A typical absorbance data and the resulting standard curve from this GLP-1 ELISA are represented. The example curve was generated using a point-to-point curve fit with linear axes. Other curve fits using linear or logarithmic axes may also be used. **This example curve should not be used in lieu of standard curve run with each assay.**



EXPECTED VALUES

Each laboratory should establish its own normal range by using samples collected from normal healthy people. Please note that the normal range may be variable by using fasting samples vs. non-fasting samples.

$$\text{GLP-1(7-36) pg/ml} = \text{GLP-1 (7-36) pmol/l} \times 3.298$$

Based on limited number of normal donor samples (n = 10), we found the fasting normal range is about 0.5 – 3.1 pmol/L and the fed normal range is about 0.6 – 16.7 pmol/L. Following table shows that the Active GLP-1 (7-36) is much higher in fed than fasting in normal donors.

Well I.D.	OD 450 nm/650 nm Absorbance			Results (pmol/L)
	Readings	Average	Corrected	
0	0.010			
pmol/mL	0.011	0.011	0.000	
0.64	0.054			
pmol/L	0.057	0.055	0.044	
2.20	0.157			
pmol/L	0.174	0.165	0.154	
6.20	0.451			
pmol/L	0.451	0.451	0.440	
21.00	1.399			
pmol/L	1.370	1.385	1.374	
48.00	2.741			
pmol/L	2.785	2.763	2.752	
Control I	0.456			
	0.458	0.457	0.446	6.29
Control II	0.918			
	0.932	0.925	0.914	13.71

Donor#	Active GLP-1 (7-36), pmol/L	
	Fasting	Fed
1	0.847	4.423
2	1.393	5.961
3	1.048	8.582
4	2.348	0.581
5	0.777	1.532
6	1.525	16.692
7	0.540	5.528
8	2.658	4.280
9	3.061	8.917
10	1.518	9.961

LIMITATION OF THE PROCEDURE

- Since there is no Gold Standard concentration or international standard available for GLP-1 (7-36) measurement, the values of assay standards were established using a highly purified GLP-1 (7-36) peptide and validated by Epitope Diagnostics. Results obtained with different assay methods or kits cannot be used interchangeably.
- For unknown sample value read directly from the assay that is greater than assay standard level-6, it is recommended to measure a diluted sample for more accurate measurement.

- Bacterial or fungal contamination of plasma specimens or reagents, or cross-contamination between reagents may cause erroneous results.
- Water deionized with polyester resins may inactivate the horseradish peroxidase enzyme.

QUALITY CONTROL

To assure the validity of the results each assay should include adequate controls with known GLP-1 (7-36) levels.

PERFORMANCE CHARACTERISTICS

Sensitivity

The sensitivity of this highly sensitive Active GLP-1 (7-36) ELISA is determined by 3 times the standard deviation above zero standard on 12 replicate determinations is approximately 0.05 pmol/L.

Specificity

This Bioactive GLP-1 (7-36) assay is a specific measure of GLP-1 (7-36). It is expected that this assay does not detect following peptides.

GLP-1 (7-36)	100%
GLP-1 (9-36)	< 0.1%
GLP-1 (9-37)	< 0.1%
GLP-1 (7-37)	< 0.1%
GLP-1 (1-36)	< 0.1%
GLP-2	< 0.1%
Glucagon	< 0.1%

Precision

The intra-assay precision was determined by 8 replicates for two control samples in a single assay. A very satisfactory within assay CV% was obtained as indicated below.

#	Average GLP-1 (7-36) (n = 8)	SD	CV
Sample 1	3.49 pmol/L	0.19	5.4%
Sample 2	10.18 pmol/L	0.26	2.5%

The inter-assay precision was determined by 13 individual assays in different dates with two control samples. A very satisfactory between assay CV% was observed as indicated below.

#	Average GLP-1 (7-36) (n = 13)	SD	CV
Sample 1	4.13 pmol/L	0.16	3.9%
Sample 2	12.14 pmol/L	0.68	5.6%

Spike Recovery

Patient samples were spiked each other in the sample volume (200 µL + 200 µL) and measured with this assay. The spike recovery is calculated.

Samples (pmol/L)	Samples (pmol/L)	Measured value (pmol/L)	Expect value (pmol/L)	Recovery (%)
32.45	7.49	18.56	19.98	92.9
6.67	18.62	11.25	12.65	89.0
2.40	7.61	4.12	5.00	82.4

Linearity

Two samples were diluted with GLP-1 (7-36) zero standard matrix. These diluted samples are measured in this assay and the linear recovery is calculated.

Sample Dilution format	GLP-1 (7-36) zero human serum	Measured value (pmol/L)	Expect value (pmol/L)	Linear recovery (%)
Sample 1				
50 µL	250 µL	0.64	0.70	91.3
100 µL	200 µL	1.06	1.39	76.1
150 µL	150 µL	2.21	2.12	104.3
200 µL	100 µL	2.88	2.82	102.2
250 µL	50 µL	4.18	3.55	117.9
Sample 2				
50 µL	250 µL	2.70	2.79	96.7
100 µL	200 µL	5.09	5.55	91.8
150 µL	150 µL	7.49	8.34	89.8
200 µL	100 µL	11.40	11.13	102.5
250 µL	50 µL	13.37	13.89	96.3

WARRANTY

This product is warranted to perform as described in its labeling and literature when used in accordance with all instructions. Epitope Diagnostics, Inc. DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and in no event shall Epitope Diagnostics, Inc. be liable for consequential damages. Replacement of the product or refund of the purchase price is the exclusive remedy for the purchaser. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

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Short Assay Protocol:

- Add 100 µL/well of standards, control and patient sample
 - Add 100 µL of Antibody Mixture
 - Incubate 20 - 24 hour at 2-8°C, static
 - Wash strips with diluted wash buffer
 - Add 200 µL/well of TMB substrate
 - Incubate 20 min at RT, static
 - Add 50 µL stop solution
 - Read strips at OD 450 nm/620 nm or 450 nm/650 nm
-
-














This product is developed and manufactured by



Epitope Diagnostics, Inc.
San Diego, CA 92121, USA

 Manufacturer	 No. of tests
 Catalog Number	 Keep away from heat and direct sun light
 Concentrate	 Store at
 Read instructions before use	 Use by
	 Lot No.

Symbols / Symbole / Symboles / Símbolos / Simboli / Símbolos / Σύμβολα

	Cat.-No.: / Kat.-Nr.: / No.- Cat.: / Cat.-No.: / N.-Cat.: / N.º Cat.: / Αριθμός-Κατ.:
	Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lotto n.: / Lote N.º: / Αριθμός -Παραγωγή:
	Use by: / Verwendbar bis: / Utiliser à: / Usado por: / Da utilizzare entro:/ Usar até: / Χρησιμοποιείται από:
	No. of Tests: / Kitgröße: / Nb. de Tests: / No. de Determ.: / Quantità dei tests: / N.º de Testes: / Αριθμός εξετάσεων:
	Concentrate / Konzentrat / Concentré / Concentrar / Concentrato / Concentrado / Συμπύκνωμα
	Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizzato / Liofilizado / Λυοφιλοσμένο
	In Vitro Diagnostic Medical Device / In-vitro-Diagnostikum / Appareil Médical pour Diagnostics In Vitro / Dispositivo Médico para Diagnóstico In Vitro / Dispositivo Medico Diagnostico In vitro / Equipamento Médico de Diagnóstico In Vitro / Ιατρική συσκευή για In-Vitro Διάγνωση
	Contains biological material of human origin / Enthält biologisches Material menschlichen Ursprungs / Contient une substance biologique d'origine humaine / Contiene material biológico de origen humano / Contiene materiale biologico di origine umana / Contém material biológico de origem humana / Περιέχει βιολογικό υλικό ανθρώπινης προέλευσης
	Contains biological material of animal origin / Enthält biologisches Material tierischen Ursprungs / Contient une substance biologique d'origine animale / Contiene material biológico de origen animal / Contiene materiale biologico di origine animale / Contém material biológico de origem animal / Περιέχει βιολογικό υλικό ζωικής προέλευσης
	Unique Device Identification / Eindeutige Geräteerkennung / Identifiant de dispositif unique / Identificación única de producto / Identificatore univoco del dispositivo / Identificador de dispositivo único / Μοναδικός αναγνωριστικός κωδικός προϊόντος
	Read instructions before use / Arbeitsanleitung lesen / Lire la fiche technique avant emploi / Lea las instrucciones antes de usar / Leggere le istruzioni prima dell'uso / Ler as instruções antes de usar / Διαβάστε τις οδηγίες πριν την χρήση
	Keep away from heat or direct sun light / Vor Hitze und direkter Sonneneinstrahlung schützen / Garder à l'abri de la chaleur et de toute exposition lumineuse / Manténgase alejado del calor o la luz solar directa / Non esporre ai raggi solari / Manter longe do calor ou luz solar directa / Να φυλάσσεται μακριά από θερμότητα και άμεση επαφή με το φως του ηλίου
	Store at: / Lagern bei: / Stocker à: / Almacene a: / Armazena a: / Conservare a: / Armazena em: / Αποθήκευση στους:
	Store at: 2 - 8°C / Lagern bei: 2 - 8°C / Stocker à: 2 - 8°C / Almacene a: 2 - 8°C / Armazena a: 2 - 8°C / Conservare a: 2-8°C / Armazena em: 2-8°C / Αποθήκευση στους: 2-8°C
	Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbricante: / Παραγωγός:
	Distributor: / Distributor: / Distributeur: / Distributor: / Distributore: / Distribuidor: / Διανομέας:
	Caution! / Vorsicht! / Attention! / ¡Precaución! / Attenzione! / Cuidado! / Προσοχή!
	Symbols of the kit components see MATERIALS SUPPLIED. Die Symbole der Komponenten sind im Kapitel KOMPONENTEN DES KITS beschrieben. Voir MATERIEL FOURNI pour les symboles des composants du kit. Símbolos de los componentes del juego de reactivos, vea MATERIALES SUMINISTRADOS. Per i simboli dei componenti del kit si veda COMPONENTI DEL KIT. Para símbolos dos componentes do kit ver MATERIAIS FORNECIDOS. Για τα σύμβολα των συστατικών του kit συμβουλευτείτε το ΠΑΡΕΧΟΜΕΝΑ ΥΛΙΚΑ.

Generic table, not all symbols are present in the product

COMPLAINTS: Complaints may be submitted initially written or vocal. Subsequently they need to be filed including the test performance and results in writing in case of analytical reasons.

WARRANTY: The product is warranted to be free from material defects within the specific shelf life and to comply with product specifications delivered with the product. The product must be used according to the Intended use, all instructions given in the instructions for use and within the product specific shelf life. Any modification of the test procedure or exchange or mixing of components of different lots could negatively affect the results. These cases invalidate any claim for replacement.

LIMITATION OF LIABILITY: IN ALL CIRCUMSTANCES THE EXTENT OF MANUFACTURER'S LIABILITY IS LIMITED TO THE PURCHASE PRICE OF THE KIT(S) IN QUESTION. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS.

The labelling of hazardous substances is according to European directive.

For further country-specific classifications, please refer to the corresponding safety data sheet.



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