

Instructions for Use



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NF-light® (Neurofilament light) Serum ELISA

**Enzyme immunoassay for the quantitative determination
of human Neurofilament light (NF-L) protein in serum samples.**

REF 30210101

 96

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

**For research use only.
Not for use in diagnostic procedures.**

Distributed by: **IBL International GmbH**
Flughafenstrasse 52a
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Always there for you



Instructions for Use – NF-light™ (Neurofilament light) Serum ELISA

1. Limited use statement

BY USE OF THIS PRODUCT, RESEARCHERS AGREE TO BE BOUND BY THE TERMS OF THIS LIMITED USE STATEMENT. Researchers may use this product **for research use only**, not for diagnostic procedures, no commercial use is allowed. Commercial use means any and all uses of this product and derivatives by a party for monetary or other consideration and may include but is not limited to use in: (1) product manufacture; and (2) to provide a service, information or data; and/or (3) resale of the product or its derivatives, whether or not such product or derivatives are resold for use in research.

2. Intended use

Serum NF-light™ ELISA is a **Research Use Only** assay for quantitative measurements of human Neurofilament light (NF-L) protein in serum samples. The kit is intended for professional use.

The NF-light™ Serum ELISA can also be used for research on samples containing NF-L from rat, mouse, bovine or macaque sources as the antibodies in the assay recognizes NF-L from these species as well.

3. Notice to user

If a serious incident occurs in relation to this device, the incident should be reported to the manufacturer and to the appropriate local competent authority of the member state in which the user is established. To report to the manufacturer, see contact details in the end of this instruction.

4. Background

Neurofilaments are the main cytoskeletal constituents in neuronal cells. They are important for the maintenance of the axonal caliber and morphological integrity, which affect the velocity and fidelity of neuronal transmissions. Three different neurofilament chains exist, named according to their size. These are Neurofilament light, medium and heavy respectively. The Neurofilament light constitutes the backbone to which the heavier chains co-assemble, forming the neurofilament fiber. Following injuries of nerve cells due to direct trauma or slow degenerative processes, the content of the cell is released into the surrounding compartment allowing quantitative determinations of the axonal proteins [1,2].

5. Method description

The UmanDiagnostics NF-light™ Serum ELISA assay is an enzymatic immunoassay designed for quantitative measurements of NF-L in human serum. The test uses two highly specific, non-competing, monoclonal antibodies [3]. The capture antibody is coated on a solid surface and binds the sample NF-L. The secondary/detection antibody is biotin conjugated and addition of HRP-conjugated Streptavidin allows for quantitative determinations by enzymatic turn-over of a colorless substrate (TMB) to a colored product. The absorbance value can be correlated to the amount of NF-L in the sample by the use of a calibrator curve.

Recommended quantification range:	4 pg/mL – 100 pg/mL
Calibrator curve range:	0.5 pg/mL – 40 pg/mL
LLoD:	0.4 pg/mL
LLoQ:	0.8 pg/mL
Incubation time:	4 hours and 15 minutes
Sample size:	50 µL/replicate
Minimum dilution of sample:	4 x

Precision:

NF-L level	Intra-assay precision mean (range)
5-10 pg/mL	6.6 % (4.2-11.1)
10-125 pg/mL	4.3 % (2.9-5.9)

NF-L level	Inter-assay precision mean (range)
10-15 pg/mL	10 % (8.7-11.2)
15-130 pg/mL	5.7 % (3.9-6.8)

6. Warnings, handling precautions and important notes

- In case of severe damage to the kit package please contact your supplier in written form no later than one week after receiving the kit. Do not use damaged components. Please keep the damaged components stored for complaint related issues.
- The NF-light™ Serum ELISA is for **Research Use Only** and is not for in vitro diagnostic use.
- The product should be used strictly in accordance with this instruction for use (IFU).
- All samples to be analyzed should be considered potentially contagious, therefore, take appropriate safety measures when handling and disposing of biological samples.
- The kit has been designed to be able to be used at two separate analysis occasions.
- Do not mix reagents from different Assay lots.
- It is advised to run samples and Calibrators in duplicate. If large deviations occur between replicates, please re-assay.
- Make sure to allow all reagents to reach room temperature before use.
- All incubation steps should be performed at room temperature (18-25°C).
- Keep all components and reagents away from heat and direct sunlight.
- The plate does not need to be covered as light or evaporation does not affect the assay results. However, plate covers are provided if the plate should need coverage for other reasons.

• During the incubation steps, use an **orbital ELISA tabletop shaker at 800 rpm. Agitation of the plate at 800 rpm is of UTMOST IMPORTANCE to obtain reliable results.** Incubation at a lower frequency will cause lowered absorbances and unreliable results.

• **Use a supplied 15 mL Sarstedt tube (art. 62.554.016) when preparing the Conjugate S solution. Other tubes may have a negative impact on Conjugate S activity causing the overall absorbance level to drop and the sample read-outs to be unreliable.** Note however that reagent reservoirs can be used to facilitate pipetting in all steps.

- Make sure there are no bubbles in the wells prior to measuring the absorbance. Follow good laboratory practice and safety guidelines. Wear lab coats, disposable gloves and protective glasses when necessary.
- **CAUTION:** Avoid contact with Stop Solution S. It may cause skin irritations and burns. A Material Safety Data Sheet for this product is available upon request directly from UmanDiagnostics AB.

7. Shelf life and storage of reagents

Store the kit at +(2-8)°C and keep away from heat or direct sunlight. Do not freeze the components.

Reconstituted Calibrator and Positive Control S should be used immediately and cannot be re-used.

Once opened, the kit should be used within 4 weeks. An opened strip plate should be sealed with tape to avoid excess humidity and stored in +(2-8)°C.

The shelf-life of the kit is printed on the kit box label and can also be found on the included certificate of analysis.

8. Sample Storage

Samples should be kept at -80°C in polypropylene tubes. Repetitive freeze-thawing should be avoided.

9. Materials

Kit components provided:

Cap colour	Short name	Full name	Description	Quantity
N/A	Plate-S	Anti-NF-L Plate S	Pre-coated with mouse anti NF-L monoclonal antibody sealed in plastic pouch with desiccant.	12 x 8 wells
Blue	NFL-Cal-S	Human recombinant NF-L Calibrator S	Recombinant Human NF-L, to be reconstituted according to the vial label.	2 vials
Blue	ELISA-Dil-S	ELISA Diluent S	Aqueous buffered solution with detergent and interference blocker.	1 x 40 mL
Green	Det-S	Detector Ab S	Biotin labelled anti NF-L monoclonal antibody in aqueous buffered biotin-free stabilizing solution.	1 x 450 µL
Green	DetDil-S	Detector Ab Diluent S	Aqueous buffered biotin free stabilizing solution.	1 x 12 mL
Purple	Conj-S	Conjugate S	Streptavidine Horseradish peroxidase conjugate in aqueous buffered biotin-free stabilizing solution. Dilute according to label.	1 x 800 µL
Purple	ConjDil-S	Conjugate Diluent S	Aqueous buffered biotin free stabilizing solution.	1 x 12 mL
White	Wash-S	Wash Buffer S	10x Aqueous buffered solution with detergent.	2 x 40 mL
Black	TMB-S	TMB Substrate S	Tetramethylbenzidine substrate	1 x 12 mL
Black	Stop-S	Stop Solution S	Diluted H ₂ SO ₄ (8% v/v)	1 x 6 mL
Grey	Pos Ctrl-S	Human recombinant NF-L Positive Control S	Recombinant Human NF-L, to be reconstituted according to the vial label.	2 vials

Additional material provided:

15 mL tube for conjugate dilution, 2 pcs

Plate covers, 2pcs

Not included essential equipment:

Microtiter plate reader 450 nm (reference wavelength in the range of 620 - 650 nm)

Micropipettes 10-1 000 µL

Vortex mixer

Orbital ELISA tabletop shaker (800 rpm)

Milli-Q water

Wash bottle, automated or semi-automated microtiter plate wash system

Pipette tips and timer

Polystyrene or polypropylene tubes for calibrator and sample dilution

10. Assay procedure

Preparations:

- All assay reagents should be brought to room temperature prior to use.
- Preparation of Wash buffer S, 1x;** Dilute the total content of one Wash Buffer S (Wash-S) bottle with Milli-Q water to a final volume of 400 mL. Diluted unused Wash buffer S, 1x can be stored at room temperature and should be used within two months. The Wash-S 10x can appear opalescent due to high salt concentration (no effect on assay performance).

Preparation of Positive Control S:

Reconstitute the lyophilized Positive Control S (**Pos Ctrl-S**) with the volume indicated on the vial, using ELISA Diluent S (**ELISA-Dil-S**). Positive Control S should not be diluted further.

Preparation of Calibrator dilution series (calibrators):

Reconstitution and preparation of calibrator dilution series should be performed directly before use.

Label 8 micro-tubes, one for each calibrator point (that is 40 pg/mL, 25 pg/mL, 12.5 pg/mL, 5 pg/mL, 2.5 pg/mL, 1 pg/mL, 0.5 pg/mL) and 1 for the blank. The lyophilized NF-L Calibrator S (**NFL-Cal-S**) should be reconstituted with the volume of ELISA Diluent S (**ELISA-Dil-S**) indicated on the vial label.

Make a dilution series as described below.

Tube	Concentration, pg/mL	ELISA Diluent S, µL	Calibrator from tube, µL
NFL-Cal-S Vial	500	Reconstitute using ELISA Diluent S according to the calibrator vial label	
A	40	920	80 (vial)
B	25	950	50 (vial)
C	12.5	550	250 (A)
D	5	700	100 (A)
E	2.5	450	50 (B)
F	1	480	20 (B)
G	0.5	980	20 (B)
H	0	500	-

Detailed Assay protocol:

- The Calibrators reconstituted and diluted according to the Calibrator dilution table are ready to use (i.e. no further dilution should be made).
- Dilute the serum samples 4 times (1+3) with ELISA Diluent S (**ELISA-Dil-S**) to a total minimum volume of 420 µL.
- Wash the wells to be used with Wash buffer S (1X), (3x300 µL). Washing could be performed either by an automated washer or by manual pipetting. If washing manually, make sure to remove excess wash buffer between each wash by tapping the plate against absorbent paper. Remaining wash buffer and/or insufficient washing could affect the reactivity of the subsequent reagent.
- Add **200 µL of each Calibrator (A-G), Pos-Ctrl-S, serum sample** and blank (**H, ELISA-Dil-S**) to each well. Duplicates are recommended.
→ Incubate 2 hours at RT with agitation (800 rpm).
- Wash the wells with Wash buffer S (1X), (3x300 µL), see point 3.
- Directly before use, dilute the Detector Ab S (**Det-S**) 40 times (1+39) to a 1X working concentration using Detector Ab Diluent S (**DetDil-S**). Mix thoroughly by inverting the tube or by vortexing.
→ Add **100 µL** of freshly diluted **Detector Ab S** to each well.

- Incubate 90 minutes at RT with agitation (800 rpm).
7. Wash the wells with Wash buffer S (1X), (3x300 µL), see point 3.
 8. **Use a supplied 15 mL tube to prepare the conjugate solution:**
 - Directly before use, dilute the Conjugate S (**Conj-S**) to a 1X working concentration according to the vial label using Conjugate Diluent S (**ConjDil-S**). Mix thoroughly by inverting the tube or by vortexing.
 - Add **100 µL** of newly diluted **Conjugate S** to each well
 - Incubate 30 minutes at RT with agitation (800 rpm).
 9. Wash the wells with Wash buffer S (1X), (**6x300 µL**).
 10. Add **100 µL of TMB Substrate S (TMB-S)** to each well.
 - Incubate 15 minutes at RT with agitation (800 rpm).
 - The plate does **not** need to be protected from light.*
 11. Add **50 µL of Stop Solution S (Stop-S)** to each well and read the absorbance at 450 nm (reference wavelength 620-650 nm).
 - ⚠ **The Stop Solution S contains diluted sulfuric acid and is corrosive.**

Assay overview:

	Washing 3 x 300 µL			
Samples, Calibrators and Controls	Serum sample 1+3 dilution	Calibrators A-G	Blank (ELISA-Dil-S)	Pos-Ctrl-S, directly from vial
	200 µL	200 µL	200 µL	200 µL
	Incubation 2 hours, 800 rpm			
	Washing 3 x 300 µL			
Detector Ab S , working solution	100 µL			
	Incubation 90 minutes, 800 rpm			
	Washing 3 x 300 µL			
Conjugate S , working solution	100 µL			
	Incubation 30 minutes, 800 rpm			
	Washing 6 x 300 µL			
TMB Substrate S	100 µL			
	Incubation 15 minutes, 800 rpm			
Stop Solution S	50 µL			
Read the plate at 450 nm (using reference wavelength 620-650 nm) directly after adding the Stop Solution S				

11. Calculation of results

The results can be calculated automatically by using an immunoassay software package.

A 1/y²-weighted 4-parameter logistic curve (4PL) provides the best curve fit (see a typical calibrator curve below).

If a non linear regression software tool is unavailable, a linear regression model in, e.g., Excel, may be applied. *Please note that such a model will not be as accurate in the lower end of the curve as a 4PL model.*

For linear regression, plot a lin-log calibrator curve from the absorbance (y-axis) and the concentration (x-axis). Add a linear trendline and use the trendline equation to manually calculate the concentration of your samples from their respective absorbance.

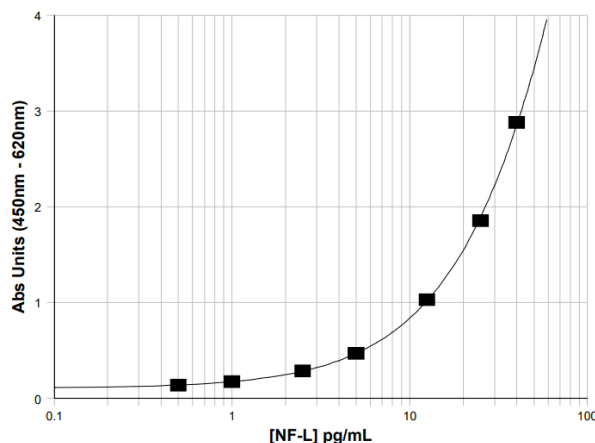
For all calculations, please note the following:

- The blank absorbance should not be subtracted from the measurement data. It should be used only as an indicator of the background levels which should be compared to expected values on the Assay CoA.
- The concentration calculations should be based on *difference data*, i.e., the absorbance data where the absorbance of the reference wavelength have been subtracted from the λ 450 absorbance.
- **The sample read-outs from the curve must be multiplied by the dilution factor of the sample in order to obtain the concentration in the original sample.**
- The quantification interval of the curve is between 1 pg/mL and 25 pg/mL. Samples that fall above this interval should be diluted accordingly and re-analyzed. Samples that fall below this interval are too low to be accurately quantified by this method. See section 13 for details.

12. Quality control

In order to confirm proper assay performance, the following criteria should be fulfilled. Note that absorbances refer to *difference data* (λ 450 minus the reference absorbance);

- The curve should have an appearance as shown in the figure below.
- The maximum absorbance for 40 pg/mL should be > 2.0 Absorbance units (AU).
- The background (the average blank absorbance of at least 2 replicates) should be <0.25 AU.
- The relative absorbance of the calibrator points should be approximately according to the table below.
- The control sample (**Pos Ctrl-S**) should fall within the acceptance interval stated on the CoA.



Calibrator (pg/mL)	Relative Absorbance (AU)	CV (%)
40	100.0 %	0.0
25	64.9 %	3.3
12.5	36.2 %	4.3
5	16.4 %	5.0
2.5	10.3 %	5.9
1	6.0 %	8.0
0.5	4.5 %	9.6
0	3.2 %	14.0

Typical calibrator curve. The Difference data (λ 450 minus the reference absorbance) is plotted against the calibrator concentration (pg/mL). Expected relative absorbance of each calibrator point in the table to the right.

13. Measuring range

The calibrator curve covers the interval 0.5 pg/mL to 40 pg/mL NF-L. Quantification of NF-L should be done in the interval between calibrator points 1.0 pg/mL and 25 pg/mL for highest accuracy. For a 4-time diluted sample, that is a functional quantification range of 4 pg/mL to 100 pg/mL. Extrapolation beyond the curve is not allowed with the implication that samples above the highest calibrator point must be further diluted and re-measured.

14. Additional dilution of samples

Diluted samples containing NF-L concentrations above the 25 pg/mL calibrator point should be further diluted and re-assayed for higher accuracy. The concentration read from the curve needs to be multiplied by the final dilution factor of the sample to obtain the concentration in the sample.

15. Assay limitations

Potential interference from heterophilic antibodies might cause erroneous results. Other factors that may affect the serum matrix of a sample and thus the result of the assay are, for example, regular exposure to animals, immunotherapy or other procedures utilizing immunoglobulins or immunoglobulin fragments and biotin therapy. Carefully evaluate research results if the sample donors are suspected of having these types of interferences.

16. Performance data

Specificity

The anti-NF-L antibodies used in this assay have been used extensively in other methods. It is the antibody-pair in the NF-light® ELISA (art.no 10-7001) for CSF samples which has been available for many years without any reports about unspecific binding. The same antibodies are also used in the NF-L quantification assays provided by Quanterix (articles 102153, 102258 and 103186).

Analytical Sensitivity

Lowest Limit of Detection (LLoD) = 0.4 pg/mL

Lowest Limit of Quantitation (LLoQ) = 0.8 pg/mL

The calculations were based on the method described in the NCCLS definition EP17-4.

Precision

For intra-precision: 4 serum samples ranging from 5 – 125 pg/mL were analysed in six replicates at three different occasions. The CV (%) for each sample was calculated for each separate occasion (n=6) and the intra-precision is reported as the mean CV (%) of its respective concentration range.

For inter-precision: 10 serum samples ranging from 10 – 130 pg/mL were analysed in duplicate on 9 or 10 separate occasions. The CV (%) for each sample was calculated (n= 9 or 10) and the inter-precision was reported as the mean CV (%) of its respective concentration range.

NF-L level	Intra-assay precision	NF-L level	Inter-assay precision
5-10 pg/mL	6.6 % (4.2-11.1)	10-15 pg/mL	10 % (8.7-11.2)
10-125 pg/mL	4.3 % (2.9-5.9)	15-130 pg/mL	5.7 % (3.9-6.8)

Recovery

The recovery interval tested for human recombinant NF-L was 2 to 18 pg/mL. For recovery testing of spiking with endogenous human NF-L, the interval was 7 to 14 pg/mL.

NF-L origin	Lowest recovery	Highest recovery	Average recovery
Recombinant NF-L	47.5%	90.6%	79.9%
Endogenous NF-L	77.9%	95.5%	90.2%

Dilution linearity

Six serum samples were spiked with endogenous NF-L and serially diluted 4 - 128 times. The read-out (pg/mL) from each measurement was multiplied by its respective dilution factor and the mean concentration of each sample was calculated from all values within the calibrator curve quantification range. Linearity was calculated for each measurement by relating it to its respective mean.

Linearity (4 x)	98 % (89 – 103 %)
Linearity (32 x)	103 % (96 – 109 %)
Linearity (128 x)	89 % (84 – 101 %)

Parallelism

Eight serum samples with high endogenous levels of NF-L were 2-fold serially diluted, three times, from an original 4-time dilution to a 32-time dilution. Each measurement was multiplied by its respective dilution factor and the CV (%) for each sample was calculated (n=4). Parallelism was defined as sample CV:s below 20 %.

Parallelism (CV < 20 %)	Mean = 9.2 % Range: 6.3 – 13.5 %
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Accuracy

There is no available reference material for NF-L as of yet. The accuracy has instead been determined by comparing with another commercially available method, the NF-light™ Advantage Simoa® Assay provided by Quanterix. 45 identical samples were analysed twice by the NF-light™ Serum ELISA and by the Simoa® assay. Correlation was evaluated. The R² value was 0.90, with the NF-light™ Serum ELISA method having a mean of 27% higher quantified NF-L concentration than the Simoa® Assay.










17. Warranty

The performance data presented here was obtained using the procedure indicated. Any change or modification in the procedure not recommended by UmanDiagnostics AB may affect the results, in which event UmanDiagnostics AB disclaims all warranties, expressed, implied or statutory, including the implied warranty of merchantability and fitness for use. UmanDiagnostics AB and its authorized distributors, in such event, shall not be liable for any damages, whether direct, indirect or consequential.

18. Bibliography

1. Yuan A., et al., *Neurofilaments and Neurofilament Proteins in Health and Disease*. Cold Spring Harb Perspect Biol, 2017. 9(4).
2. Gaetani L., et al., *Neurofilament light chain as biomarker in neurological disorders*. J Neurol Neurosurg Psychiatry, 2019;90:870-881.
3. Norgren N., et al., *Monoclonal antibodies selective for low molecular weight neurofilaments*. Hybrid Hybridomics. 2002 Feb; 21(1): 53-9.

19. Symbols used















	Cat.-No.:
	Use by:
	Lot-No.:
	No. of Tests:
	Read instructions before use.
	Keep away from heat or direct sunlight.
	Store at:
	Manufacturer:
	Caution!



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Symbols / Symbole / Symbôles / Símbolos / Símbolos / Σύμβολα

	Cat.-No.: / Kat.-Nr.: / No.- Cat.: / Cat.-No.: / N.º Cat.: / N.–Cat.: / Αριθμός-Κατ.:
	Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lote N.º: / Lotto n.: / Αριθμός -Παραγωγή:
	Use by: / Verwendbar bis: / Utiliser à: / Usado por: / Usar até: / Da utilizzare entro: / Χρησιμοποιείται από:
	No. of Tests: / Kitgröße: / Nb. de Tests: / No. de Determ.: / N.º de Testes: / Quantità dei tests: / Αριθμός εξετάσεων:
	Concentrate / Konzentrat / Concentré / Concentrar / Concentrado / Concentrato / Συμπύκνωμα
	Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizado / Liofilizzato / Λυοφιλιασμένο
	In Vitro Diagnostic Medical Device. / In-vitro-Diagnostikum. / Appareil Médical pour Diagnostics In Vitro. / Dispositivo Médico para Diagnóstico In Vitro. / Equipamento Médico de Diagnóstico In Vitro. / Dispositivo Medico Diagnostico In vitro. / Ιατρική συσκευή για In-Vitro Διάγνωση.
	Read instructions before use. / Arbeitsanleitung lesen. / Lire la fiche technique avant emploi. / Lea las instrucciones antes de usar. / Ler as instruções antes de usar. / Leggere le istruzioni prima dell'uso. / 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. / Manter longe do calor ou luz solar directa. / Non esporre ai raggi solari. / Να φυλάσσεται μακριά από θερμότητα και άμεση επαφή με το φως του ηλίου.
	Store at: / Lagern bei: / Stocker à: / Almacene a: / Armazemar a: / Conservare a: / Αποθήκευση στους:
	Store at: 2-8°C / Lagern bei: 2-8°C / Stocker à: 2-8°C / Almacene a: 2-8°C / Armazemar a: 2-8°C / Conservare a: 2-8°C / Αποθήκευση στους: 2-8°C
	Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbicante: / Παραγωγός:
	Distributor: / Distributor: / Distributeur: / Distributor: / Distribuidor: / Distributore: / Διανομέας:
	Caution! / Vorsicht! / Attention! / ¡Precaución! / Cuidado! / Attenzione! / Προσοχή!
<p>Symbols of the kit components see MATERIALS SUPPLIED. Die Symbole der Komponenten sind im Kapitel KOMPONENTEN DES KITS beschrieben. Voir MATERIEL FOURNI pour les symbôles des composants du kit. Símbolos de los componentes del juego de reactivos, vea MATERIALES SUMINISTRADOS. Para símbolos dos componentes do kit ver MATERIAIS FORNECIDOS. Per i simboli dei componenti del kit si veda COMPONENTI DEL KIT. Για τα σύμβολα των συστατικών του κιτ συμβουλευτείτε το ΠΑΡΕΧΟΜΕΝΑ ΥΛΙΚΑ.</p>	

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.

For country-specific classification and labelling of hazardous substances, please refer to corresponding safety data sheet.



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