Instructions for Use

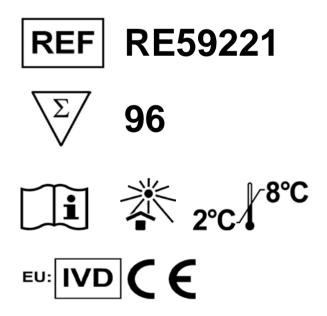


Tel. +49 (0) 40 53 28 91-0 Fax +49 (0) 40 53 28 91-11

IBL@tecan.com www.tecan.com/ibl

Histamine ELISA

Enzyme immunoassay for the quantitative determination of histamine in human plasma, urine and EDTA whole blood. For research of cell culture supernatants.





REVISION HISTORY OF INSTRUCTIONS FOR USE

Changes from the previous version 2019-09 to actual version 2021-02

Cover page Layout change

Chapter 4 Additional information

Chapter 6 Update

Symbol page Layout change

1. INTENDED USE

Enzyme immunoassay for the quantitative determination of histamine in human plasma, urine and EDTA whole blood. For research of cell culture supernatants.

2. SUMMARY AND EXPLANATION

In humans, histamine (ß-imidazolethylamine) is the most important mediator and is mostly found in the initial phase of an anaphylactic reaction ("immediate type" allergy). Histamine is derived by the enzymatic decarboxylation of histidine. In the organism, histamine is present in nearly all tissues, and it is mainly stored in the metachromatic granula of mast cells and the basophilic leukocytes. It is present in an inactive bound form and is only released as required. Like several other mediators, histamine does not only mediate various clinical symptoms of anaphylaxis but also induces a series of effects which are directed towards a termination of the anaphylactic reaction. The biological action of histamine in tissue is guaranteed by three different surface receptors, i.e. H1, H2 and H3 receptors. Of clinical interest in the histamine determination is the quantification of the histamine release from basophilic leukocytes in allergies of the "immediate type" as well as of the histamine quantity which is present in various body fluids (plasma, urine, cell culture supernatants), after allergen administration.

3. TEST PRINCIPLE

Solid phase enzyme-linked immunosorbent assay (ELISA) based on the competition principle. An unknown amount of antigen present in the sample and a fixed amount of enzyme labelled antigen compete for the binding sites of the antibodies coated onto the wells. After incubation, the wells are washed to stop the competition reaction. After the substrate reaction, the intensity of the developed colour is inversely proportional to the amount of the antigen in the sample. Results of samples can be determined directly using the standard curve.

4. WARNINGS AND PRECAUTIONS

- 1. For *in-vitro diagnostic* use only. For professional use only.
- 2. Before starting the assay, read the instructions completely and carefully. Use the valid version of the package insert provided with the kit. Be sure that everything is understood.
- 3. In case of severe damage of the kit package please contact IBL or your supplier in written form, latest one week after receiving the kit. Do not use damaged components in test runs, but keep safe for complaint related issues.
- 4. Broken glass may cause injury. Handle glass vessels with caution.
- 5. Obey lot number and expiry date. Do not mix reagents of different lots. Do not use expired reagents.
- 6. Follow good laboratory practice and safety guidelines. Wear lab coats, disposable latex gloves and protective glasses where necessary.
- 7. Reagents of this kit containing hazardous material may cause eye and skin irritations. See MATERIALS SUPPLIED and labels for details. Material Safety Data Sheets for this product are available on the IBL-Homepage or upon request directly from IBL.
- 8. Chemicals and prepared, used, unused or expired reagents have to be treated as hazardous waste according to national biohazard and safety guidelines or regulations.
- 9. The cleaning staff should be guided by the professionals regarding potential hazards and handling.
- 10. All serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the Member State in which the user and/or the patient is established.
- 11. Avoid contact with Stop solution. It may cause skin irritations and burns.
- 12. Some reagents contain sodium azide (NaN₃) as preservatives. In case of contact with eyes or skin, flush immediately with water. NaN₃ may react with lead and copper plumbing to form explosive metal azides. When disposing reagents, flush with a large volume of water to avoid azide build-up.
- 13. All reagents of this kit containing human serum or plasma have been tested and were found negative for anti-HIV I/II, HBsAg and anti-HCV. However, a presence of these or other infectious agents cannot be excluded absolutely. For this reason reagents should be treated as potential biohazards in use and for disposal.

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5. STORAGE AND STABILITY

The kit is shipped at ambient temperature and should be stored at 2-8°C. Keep away from heat or direct sunlight. The storage and stability of specimens and prepared reagents is stated in the corresponding chapters.

The microtiter strips are stable up to the indicated expiry after the kit is opened. Make sure that the opened bag is tightly closed when stored at 2-8 °C.

6. SPECIMEN COLLECTION AND STORAGE

Plasma (EDTA, Heparin)

The usual precautions for venipuncture should be observed. It is important to preserve the chemical integrity of a blood specimen from the moment it is collected until it is assayed. Do not use grossly hemolytic, icteric or grossly lipemic specimens. Samples appearing turbid should be centrifuged before testing to remove any particulate material.

Storage:	2-8°C	≤ -20°C (Aliquots)		Keep away from heat or direct sunlight. Avoid repeated freeze-thaw cycles.
Stability:	5 hours	3 months	2 years	Ship samples frozen.

Urine

It is possible to use spontaneous as well as 24 h urine. The total volume of urine excreted during a 24 hours period should be collected and mixed in a single bottle containing 10-15 mL of 6 M HCl as preservative. Determine total volume for calculation of results. **Mix and centrifuge samples before use in the assay.**

	spontaneous	acidified		Keep away from heat or direct sunlight.
Storage:	2-8°C	2-8°C	≤ -20°C (Aliquots)	Avoid repeated freeze-thaw cycles. Ship samples frozen.
Stability:	8 hours	3 days	6 months	Ship samples hozen.

Cell Culture Supernatants

Cell culture supernatants may be used without special precautions.

Cell culture media may contain histamine in higher amounts.

Whole Blood

Total Histamine in EDTA whole Blood.

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7. MATERIALS SUPPLIED

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The reagents provided with this kit are sufficient for up to 96 single determinations or up to 48 duplicates in plasma and urine.

Quantity	Symbol	Component
1 x 12x8	MTP	Microtiter Plate Break apart strips. Coated with anti-rabbit antiserum (goat).
1 x 7 mL	ANTISERUM	Histamine Antiserum Blue colored. Ready to use. Contains: Antiserum (rabbit), Tris buffer, 0.01 % Thimerosal.
1 x 100 μL	ENZCONJ CONC	Enzyme Conjugate Concentrate (200x) Contains: Histamine, conjugated to peroxidase.
7 x 1.0 mL	CAL P A-G	Plasma Standards A-G 0.0, 0.35; 1.1; 4.0; 14; 50;150 ng/mL Ready to use. For calibration of plasma samples. Standard A = Diluent for plasma samples. Contains: Histamine, human plasma.
2 x 1.0 mL	CONTROL P 1+2	Plasma Controls 1+2 Ready to use. Contains: Histamine, human plasma. Concentrations / acceptable ranges see QC certificate.
1 x 2.0 mL	CAL U/C A	Urine/Cell Culture Standards A 0 ng/mL Ready to use. For calibration of urine and cell culture samples. Standard Contains: 0.1 M HCl.
5 x 0.25 mL	CAL U/C B-F	Urine/Cell Culture Standards B-F 2.7; 8.1; 24.3; 73; 219 ng/mL Ready to use. For calibration of urine and cell culture samples. Standard Contains: Histamine, 0.1 M HCl.
2 x 0.25 mL	CONTROL U/C 1+2	Urine/Cell Culture Controls 1+2 Ready to use. Contains: Histamine, human urine (acidified). Concentrations / acceptable ranges see QC certificate.
1 x 2.25 mL	ACYLREAG	Acylation Reagent Ready to use. Contains: DMF.
1 x 60 mL	ASSAYBUF CONC	Assay Buffer Concentrate (5x) Contains: Tris buffer, Tween, BSA, 0.05 % Thimerosal.
1 x 50 mL	WASHBUF CONC	Wash Buffer Concentrate (20x) Contains: phosphate buffer, Tween, 0.1 % Thimerosal.
1 x 11 mL	INDICATORBUF	Indicator Buffer Purple colored. Ready to use. Contains: Tris buffer, phenol red (color change at pH < 7.5), 0.01 % Thimerosal.
1 x 15 mL	TMB SUBS	TMB Substrate Solution Ready to use. Contains: TMB, Buffer, stabilizers.
1 x 15 mL	TMB STOP	TMB Stop Solution Ready to use. 1 M H ₂ SO ₄ .
3 x	FOIL	Adhesive Foil

8. MATERIALS REQUIRED BUT NOT SUPPLIED

- 1. Micropipettes (Multipette Eppendorf or similar devices, < 3 % CV). Volume: 10; 20; 50; 100; 1000 μL
- 2. Disposable polypropylene tubes, disposable glass tubes, (12 x 75 mm) or 96- deep well Acylation Plate (can be ordered separately from IBL under: REF ACYLPLATE: KEHP711)
- 3. Rack for test tubes
- 4. Orbital shaker (500 rpm)
- 5. Vortex mixer
- 6. 8-Channel Micropipettor with reagent reservoirs
- 7. Wash bottle, automated or semi-automated microtiter plate washing system
- 8. Microtiter plate reader capable of reading absorbance at 450 nm (reference wavelength 600-650 nm)
- 9. Bidistilled or deionised water
- 10. Paper towels, pipette tips and timer

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9. PROCEDURE NOTES

- 1. Any improper handling of samples or modification of the test procedure may influence the results. The indicated pipetting volumes, incubation times, temperatures and pretreatment steps have to be performed strictly according to the instructions. Use calibrated pipettes and devices only.
- 2. Once the test has been started, all steps should be completed without interruption. Make sure that required reagents, materials and devices are prepared ready at the appropriate time. Allow all reagents and specimens to reach room temperature (18-25°C) and gently swirl each vial of liquid reagent and sample before use. Mix reagents without foaming.
- 3. Avoid contamination of reagents, pipettes and wells/tubes. Use new disposable plastic pipette tips for each component and specimen. Do not interchange caps. Always cap not used vials. Do not reuse wells/tubes or reagents.
- 4. Some components contain \leq 250 μ L solution. Take care that the solution is completely on the bottom of the vial before opening.
- 5. It is advised to determine duplicates to be able to identify potential pipetting errors.
- 6. Use a pipetting scheme to verify an appropriate plate layout.
- 7. Incubation time affects results. All wells should be handled in the same order and time sequences. It is recommended to use an 8-channel Micropipettor for pipetting of solutions in all wells.
- 8. Microtiter plate washing is important. Improperly washed wells will give erroneous results. It is recommended to use a multichannel pipette or an automatic microtiter plate washing system. Do not allow the wells to dry between incubations. Do not scratch coated wells during rinsing and aspiration. Rinse and fill all reagents with care. While rinsing, check that all wells are filled precisely with Wash Buffer, and that there are no residues in the wells.
- 9. Humidity affects the coated wells/tubes. Do not open the pouch until it reaches room temperature. Unused wells/tubes should be returned immediately to the resealed pouch including the desiccant.

10. PRE-TEST SETUP INSTRUCTIONS



The contents of the kit for 96 determinations can be divided into 3 separate runs.

The volumes stated below are for one run with 4 strips (32 determinations).

10.1. Preparation of lyophilized or concentrated components

Dilute / dissolve	Component		Diluent	Relation	Remarks	Storage	Stability
20 mL	ASSAYBUF	ad 100 mL	bidist. water	1:5		2-8°C	2 weeks
15 mL	WASHBUF	ad 300 mL	bidist. water	1:20	Resolve crystals at 18- 25°C.	2-8°C	4 weeks
10 μL(*)	ENZCONJ	with 2 mL	diluted Assay Buffer	1:201	Prepare freshly and use only once.	18-25°C	30 min

^(*) Prior to dilution make sure that no liquid will remain in the stopper.

10.2. Dilution of Samples

Samples suspected to contain concentrations higher than the highest standard have to be diluted prior to acylation with appropriate media:

Urine: 0.1 M HCI.

Plasma: sample diluent (REF: KEHP771), not provided in the kit.

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10.3. Acylation of Samples

If processing a large number of samples, we recommend optionally the acylation in 96-deep well Acylation Plate. (can be ordered separately from IBL under REF: ACYLPLATE KEHP711)

It is not possible to determine acylated urine or cell culture samples by use of the plasma standard curve or to determine acylated plasma samples by use of the U/C standard curve.

Note: The acylated samples can be stored at 2-8°C overnight or better at -20°C for up to 2 d.

10.3.1. Acylation in disposable tubes.

The following procedure must be performed in two variants:

Plasma

Pipette 100 μL of each Plasma Standard, Plasma Control and plasma sample into the respective tubes.
 Pipette 100 μL of Indicator Buffer into each tube. Vortex.
 Pipette 20 μL of Acylation Reagent into each tube. Vortex each tube immediately after pipetting.
 Cover tubes. Incubate 30 minutes at 18-25°C (room temperature).
 Pipette 750 μL of diluted Assay Buffer into each tube. Vortex

Urine, Cell Culture Supernatants

Pipette 50 μL of each Urine/Cell Culture Standard, Urine/Cell Culture Control and urine / cell culture sample into the respective tubes.
 Pipette 50 μL of Indicator Buffer into each tube. Vortex If the indicator becomes colorless, the pH of the solution is too low and the sample contains too much acid. In that case add another 50 μL of Indicator Buffer until the solution remains reddish.
 Pipette 10 μL of Acylation Reagent into each tube. Vortex each tube immediately after pipetting.
 Cover tubes. Incubate 30 minutes at 18-25°C.
 Pipette 2000 μL of diluted Assay Buffer into each tube. Vortex thoroughly.

Whole Blood (Total Histamine)

vvno	le Blood (Total Histamine)
1.	Pipette 50 μL of each EDTA whole blood sample into glass tubes.
2.	Pipette 950 μL of Hypotonic Medium into each tube.
3.	Incubate 60 minutes at 37°C in a waterbath.
1	The supernatants of the respective samples can be stored at 2 - 8 °C for one day. For longer storage up to one week freeze at -20°C. Avoid repeated thawing and freezing.
4.	Vortex. Withdraw 100 μL for the acylation step of the Histamine ELISA and pipette into the respective glass tubes.
5.	Pipette 50 μL of each Plasma Standard with 50 μL Release Buffer into the respective glass tubes.
6.	Pipette 50 μL of each Plasma Control with 50 μL Release Buffer into the respective glass tubes.
7.	Pipette 100 μL of Indicator Buffer into each tube. Vortex.
8.	Pipette 20 μL of Acylation Reagent into each tube. Vortex each tube immediately after pipetting.
9.	Cover tubes. Incubate 30 minutes at 18-25°C.
10.	Pipette 750 μL of diluted Assay Buffer into each tube. Vortex.

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10.3.2. Alternative version Acylation in 96-deep well Acylation Plate.

The 96-deep well Acylation Plate cannot be reused. Use only once!

The following procedure must be performed in two variants:

Plasma

- 1. Pipette 100 μL of each Plasma Standard, Plasma Control and plasma sample into the respective wells of the 96-deep well Acylation Plate.
- 2. Pipette 100 µL of Indicator Buffer into each well. Briefly mix contents by gently shaking the plate.
- 3. Pipette 20 µL of Acylation Reagent into each well. Briefly mix contents by gently shaking the plate.
- 4. Cover plate with adhesive foil.. Incubate 30 minutes at 18-25°C.
- 5. Pipette 750 µL of diluted Assay Buffer into each well.
- 6. Mix the acylated standards, controls and samples with a 8-Channel Micropipettor and transfer it to the Microtiter Plate (see TEST PROCEDURE).

Urine, Cell Culture Supernatants

- 1. Pipette 50 µL of each Urine/Cell Culture Standard, Urine/Cell Culture Control and urine / cell culture sample into the respective wells of the 96-deep well Acylation Plate.
- Pipette 50 μL of Indicator Buffer into each well. Briefly mix contents by gently shaking the plate. If the indicator becomes colorless, the pH of the solution is too low and the sample contains too much acid. In that case add another 50 μL of Indicator Buffer until the solution remains reddish.
- 3. Pipette 10 µL of Acylation Reagent into each well Briefly mix contents by gently shaking the plate.
- 4. Cover plate with adhesive foil. **Incubate 30 minutes** at **18-25°C**.
- 5. Pipette 2000 μL of diluted Assay Buffer into each well.
- 6. Mix the acylated standards, controls and samples with a 8-Channel Micropipettor and transfer it to the Microtiter Plate (see TEST PROCEDURE).

11. TEST PROCEDURE

- 1. Pipette 50 μL of each <u>acylated</u> Standard, <u>acylated</u> Control and <u>acylated</u> sample into the respective wells of the Microtiter Plate.
- 2. Pipette 50 µL of freshly prepared Enzyme Conjugate into each well.
- 3. Pipette 50 µL of Histamine Antiserum into each well.
- 4. Cover plate with adhesive foil. **Incubate 3 hours** at **18-25°C** (room temperature) on an orbital shaker (500 rpm).
- 5. Remove adhesive foil. Discard incubation solution. Wash plate 4 x with 250 μL diluted Wash Buffer. Remove excess solution by tapping the inverted plate on a paper towel.
- 6. For adding of Substrate and Stop Solution use, if available, an 8-channel Micropipettor. Pipetting should be carried out in the same time intervals for Substrate and Stop Solution. Use positive displacement and avoid formation of air bubbles.
- 7. Pipette 100 µL TMB Substrate Solution into each well.
- 8. Plasma: Incubate 40 minutes at 18-25°C on an orbital shaker (500 rpm).

<u>Urine/Cell Culture Supernatants:</u> Incubate 20 minutes at 18-25°C on an orbital shaker (500 rpm).

- 9. Stop the substrate reaction by adding 100 µL of TMB Stop Solution into each well. Briefly mix contents by gently shaking the plate.
- **10. Measure** optical density with a photometer at **450 nm** (Reference-wavelength: 600-650 nm) within **15 minutes** after pipetting of the Stop Solution.

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12. QUALITY CONTROL

The test results are only valid if the test has been performed following the instructions. Moreover the user must strictly adhere to the rules of GLP (Good Laboratory Practice) or comparable standards/laws. User and/or laboratory must have a validated system to get diagnosis according to GLP. All kit controls must be found within the acceptable ranges as stated on the labels and the QC certificate. If the criteria are not met, the run is not valid and should be repeated. Each laboratory should use known samples as further controls.

In case of any deviation the following technical issues should be proven: Expiration dates of (prepared) reagents, storage conditions, pipettes, devices, incubation conditions and washing methods.

It is recommended to participate at appropriate quality assessment trials.

CALCULATION OF RESULTS 13.

The obtained OD of the standards (y-axis, linear) are plotted against their concentration (x-axis, logarithmic) either on semi-logarithmic graph paper or using an automated method. A good fit is provided with cubic spline, 4 Parameter Logistics or Logit-Log.

For the calculation of the standard curve, apply each signal of the standards (one obvious outlier of duplicates might be omitted and the more plausible single value might be used).

The concentration of the samples can be read directly from the standard curve.

In case of diluted samples the values have to be multiplied with the corresponding dilution factor.

Samples showing concentrations above the highest standard have to be diluted as described in PRE-TEST SETUP INSTRUCTIONS and reassayed.

Calculate the 24 h excretion for each urine sample:

 $\mu g/24 h = \mu g/L \times L/24 h$

Conversion:

Histamine (ng/mL) \times 8.997 = nmol/L

Typical Calibration Curve Plasma

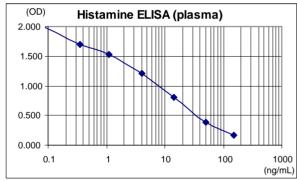
(Example. Do not use for calculation!)

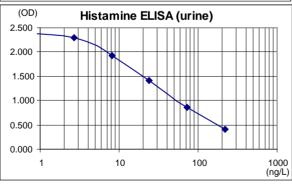
Standard	Histamine (ng/mL)	OD_Mean	OD/OD _{max} (%)
Α	0.0	2.122	100
В	0.35	1.705	80.3
С	1.1	1.534	72.3
D	4.0	1.209	57.0
E	14	0.802	37.8
F	50	0.390	18.4
G	150	0.162	7.6

Typical Calibration Curve Urine

(Example. Do not use for calculation!)

			<u> </u>
D/OD _{max}	OD_{Mean}	Histamine	Standard
(%)		(ng/mL)	
100	2.476	0.0	Α
92.8	2.298	2.7	В
78.0	1.931	8.1	С
57.0	1.413	24.3	D
34.3	0.851	73.0	E
16.2	0.402	219	F
57 34	1.413 0.851	24.3 73.0	D





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14. EXPECTED VALUES

The results themselves should not be the only reason for any therapeutical consequences. They have to be correlated to other clinical observations and diagnostic tests.

Apparently healthy subjects show the following values: (95 % percentile)

Plasma	0.2 - 1.0 ng/mL	ه: ۱۱
Urino	5 – 56 μg/d (24 h)	It is
Urine	8 – 53 μg/g Creatinine (spontaneous)	lab
Whole Blood	< 60 ng/mL	 ran

t is recommended that each aboratory establishes its own range of normal values.

15. LIMITATIONS OF THE PROCEDURE

Specimen collection and storage have a significant effect on the test results. See SPECIMEN COLLECTION AND STORAGE for details.

For cross-reactivities, see PERFORMANCE.

The following blood components do not have a significant effect	Hemoglobin	5 mg/mL
(+/- 20% of expected) on the test results up to the below stated	Bilirubin	1 mg/mL
concentrations:	Triglyceride	30 mg/mL

16. PERFORMANCE

Analytical Specificity	Substance		Cross Reactivity (%)		Cros	Cross-reactivity of other substances		
(Cross Reactivity)	N-Acetyl-Histami	ne	0.3	34	tested < 0.005 %			
(Cross Reactivity)	3-Methyl-Histami	ne	0.0	9 tested < 0.005 %		eu < 0.005 %		
Analytical Sensitivity	Plasma	0.02 ng/mL 1.3 ng/mL		Mean signal (Zero-Standard)			790	
(Limit of Detection)	Urine						- 230	
Precision		Range (ng/mL)		CV (%)				
Intra-Assay	Plasma	0.	5 – 85	2.2 – 13.	.8			
IIIIa-Assay	Urine	6.2	2 – 178	3.7 - 6.0				
Inter-Assay	Plasma	7.	6 – 86	6.0 - 9.2				
intel 7tsay	Urine		2 – 155	7.1 – 12.				
		Range (ng/mL)		Serial dilution		on up to	Range (%)	
Linearity	Plasma	16.5 – 129		1:8			100 - 112	
	Urine	2.0 - 135		1:64		·	83 - 117	
_		Mean (%)		Range (%			61 11	
Recovery	Plasma	105		90 - 116		% Recovery	ery after spiking	
	Urine		99	83 - 117	7			
Method Comparison Competitor Assay A	Plasma	IBL-Assay = 0.95 x A - 0.04			r = 0.99; n = 24			
Method Comparison Competitor Assay A	Urine	IBL-Assay = 0.77 x A + 2.86				r = 0.88; n = 26		
Method Comparison Competitor Assay B	• IPI3em3 IIBI -4ee3V - II		say = 0.56 x B + 0.01				r = 0.99; n = 20	
Method Comparison Competitor Assay B	Urine	IBL-As	say = 0.68 x	(B+11.3			r = 0.99; n = 24	

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17. PRODUCT LITERATURE REFERENCES

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- 2. Brown, Simon G A, Wiese Michael, Blackmann Konrad: Ant venom Immunotherapy: a double-blind, placebo-controlled, crossover trial. The Lancet, Vol 361, March 22 1001-1006 (2003) Address: Royal Hobart Hospital, Tasmania, Australia
- 3. Matsumoto, Jun and Matsuda Hajime: Mast-cell dependent histamine release after praziquantel treatment of Schistosoma Japonicum infection: implications for chemotherapy-related adverse effects. Parasitol Res 88; 888-893 (2002) Address: Dokkyo University of Medicine, Mibu, Japan
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- Ching-Hsiang Hsu, Kaw-Yan Chua, Mi-Hua Tao, Yih-Loong Lai, Heuy-Dong Wu, Shau-Ku Huang & Kue-Hsiung Hsieh (1996). Immunophrophylaxis of allergen- induced immunoglobulin E synthesis and airway hyperresponsiveness in vivo by genetic immunization. Nature Medicine, Volume 2, Number 5, May (1996): 540-544. Address: Kue-Hsiung Hsieh, Chang Gung Children's Hospital, Taiwan, Republic of China
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Symbols / Symbole / Symboles / Símbolos / Símbolos / Σύμβολα

REF	CatNo.: / KatNr.: / No Cat.: / CatNo.: / N.º Cat.: / Ν.–Cat.: / Αριθμός-Κατ.:					
LOT	Lot-No.: / Chargen-Bez.: / No. Lot: / Lot-No.: / Lote N.º: / Lotto n.: / Αριθμός -Παραγωγή:					
Σ	Use by: / Verwendbar bis: / Utiliser à: / Usado por: / Usar até: / Da utilizzare entro: / Χρησιμοποιείται από:					
Σ	No. of Tests: / Kitgröße: / Nb. de Tests: / No. de Determ.: / N.º de Testes: / Quantità dei tests: / Αριθμός εξετάσεων:					
CONC	Concentrate / Konzentrat / Concentré / Concentrar / Concentrado / Concentrato / Συμπύκνωμα					
LYO	Lyophilized / Lyophilisat / Lyophilisé / Liofilizado / Liofilizado / Liofilizzato / Λυοφιλιασμένο					
IVD	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.					
ű	Evaluation kit. / Nur für Leistungsbewertungszwecke. / Kit pour évaluation. / Juego de Reactivos para Evaluació. / Kit de avaliação. / Kit di evaluazione. / Κιτ Αξιολόγησης.					
(i	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.					
类	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.					
1	Store at: / Lagern bei: / Stocker à: / Almacene a: / Armazenar a: / Conservare a: / Αποθήκευση στους:					
	Manufacturer: / Hersteller: / Fabricant: / Productor: / Fabricante: / Fabbricante: / Παραγωγός:					
<u>À</u>	Caution! / Vorsicht! / Attention! / ¡Precaución! / Cuidado! / Attenzione! / 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 symbôles des composants du kit.					
S	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.					

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.



IBL International GmbH

Flughafenstrasse 52a 22335 Hamburg, Germany

Phone: +49 (0)40-53 28 91-0 Fax: +49 (0)40-53 28 91-11 IBL@tecan.com
www.tecan.com/ibl

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