

Product information

Information about other products is available at: www.ibl-america.com



Cortisol free in Saliva ELISA

RUO

REF

IB79311



96

For Research Use Only – Not for Use in Diagnostic Procedures

CONTENTS

1	INTRODUCTION	3
2	PRINCIPLE.....	3
3	WARNINGS AND PRECAUTIONS	3
4	REAGENTS.....	4
5	SAMPLE COLLECTION AND PREPARATION	5
6	ASSAY PROCEDURE.....	6
7	QUALITY CONTROL.....	7
8	PERFORMANCE CHARACTERISTICS	7
9	LIMITATIONS OF PROCEDURE	9
10	LEGAL ASPECTS	9
11	REVISION HISTORY OF INSTRUCTION FOR USE	10
12	REFERENCES	10

1 INTRODUCTION

1.1 Intended Use

Enzyme immunoassay for the determination of active free cortisol in human saliva.

For research use only – Not for use in diagnostic procedures. The kit is intended for single use only.

1.2 Description of the analyte

Cortisol (hydrocortisone) is the major glucocorticoid produced in the adrenal cortex. Cortisol is a potent stress hormone and the secretion is regulated by the Hypothalamic-Pituitary-Adrenal-axis (HPA-axis). The secretion of cortisol has a specific circadian rhythm with a curve presenting a sharp peak in the early morning and a gradually decrease over the day with a nadir in the evening (7). The position of this peak-value is strongly influenced by the average wake-up time during the past weeks. It is not dependent on the actual wake-up time of the specific day of sample collection (if different from the average wake-up time of the past week).

Studies show that salivary cortisol concentration reflects the serum unbound cortisol concentration throughout the physiological concentration range (7, 8, 9). In serum, 90-95% of cortisol is bound to protein while in saliva cortisol appears mainly in its free, metabolic active form. The salivary cortisol concentration is independent of saliva flow rate as well as of the serous and mucous content (9).

2 PRINCIPLE

The **IBL-A Cortisol free in Saliva ELISA** Kit is a solid phase enzyme-linked immunosorbent assay (ELISA), based on the principle of competitive binding. The microtiter wells are coated with a polyclonal rabbit antibody directed against the cortisol molecule. The samples are dispensed in the coated wells and incubated with the enzyme conjugate (cortisol conjugated to horseradish peroxidase). During incubation endogenous cortisol of a sample competes with the enzyme conjugate for binding to the coated antibody. The unbound conjugate is removed by washing the wells.

Subsequently, the substrate solution is added and the color development is stopped after a defined time. The intensity of the color formed is inversely proportional to the concentration of cortisol in the sample. The optical density (OD) is measured at 450 nm with a microtiter plate reader. A calibrator curve is constructed by plotting OD values against concentrations of standards, and concentrations of unknown samples are determined using this standard curve.

3 WARNINGS AND PRECAUTIONS

1. This kit is for research 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. The microplate contains break apart strips. Unused wells must be stored at 2-8°C in the sealed foil pouch and used in the frame provided.
4. Pipetting of samples and reagents must be done as quickly as possible and in the same sequence for each step.
5. Use reservoirs only for single reagents. This especially applies to the substrate reservoirs. Using a reservoir for dispensing a substrate solution that had previously been used for the conjugate solution may turn solution coloured. Do not pour reagents back into vials as reagent contamination may occur.
6. Mix the contents of the microplate wells thoroughly to ensure good test results. Do not reuse microwells.
7. Do not let wells dry during assay; add reagents immediately after completing the rinsing steps.
8. Allow the reagents to reach room temperature (18-25°C) before starting the test. Temperature will affect the absorbance readings of the assay.
9. Never pipet by mouth and avoid contact of reagents and samples with skin and mucous membranes.
10. Do not smoke, eat, drink or apply cosmetics in areas where samples or kit reagents are handled.
11. Wear disposable latex gloves when handling samples and reagents. Microbial contamination of reagents or samples may give false results.
12. Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation.
13. Do not use reagents beyond expiry date as shown on the kit labels.
14. All indicated volumes have to be performed according to the protocol. Optimal test results are only obtained when using calibrated pipettes and microtiterplate readers.

15. Do not mix or use components from kits with different lot numbers. It is advised not to exchange wells of different plates even of the same lot. The kits may have been shipped or stored under different conditions and the binding characteristics of the plates may result slightly different.
16. Avoid contact with Stop Solution. It may cause skin irritation and burns.
17. Some reagents contain Proclin 300, CMIT and MIT as preservatives. In case of contact with eyes or skin, flush immediately with water.
18. Chemicals and prepared or used reagents have to be treated as hazardous waste according to the national biohazard safety guideline or regulation.
19. For information please refer to Material Safety Data Sheets. Safety Data Sheets for this product are available upon request directly from IBL-America.
20. If product information, including labeling, is incorrect or inaccurate, please contact the kit manufacturer or supplier.

4 REAGENTS

4.1 Reagents provided

1. **SORB MT Microtiter Plate**, 12x8 (break apart) strips, 96 wells; wells coated with rabbit anti-cortisol antibody (polyclonal).
2. **CAL 0 Calibrator 0**, 1 vial, 2.0 ml, ready to use.
3. **CAL 1-5 Calibrator (Calibrator 1-5)**, 5 vials, 0.5 ml each, ready to use. Buffer matrix spiked with defined concentration of cortisol.
Concentrations: 0.1 - 0.4 - 1.7 - 7.0 - 30 ng/ml
Conversion factor: 1 ng/ml = 2.76 nmol/l
4. **CONTROL 1-2 Control 1 (low) / Control 2 (high)**, 2 vials, 0.5 ml each, ready to use. Buffer matrix spiked with defined concentration of cortisol.
For control values and ranges please refer to QC-Datasheet.
5. **ENZ CONJ Enzyme Conjugate**, 1 vial, 7.0 ml, ready to use; cortisol conjugated to horseradish peroxidase;
6. **SUB TMB Substrate Solution**, 1 vial, 22 ml, ready to use; Tetramethylbenzidine (TMB).
7. **STOP SOLN Stop Solution**, 1 vial, 7.0 ml, ready to use; contains 2 N hydrochlorid acid.
Avoid contact with the stop solution. It may cause skin irritations and burns.
8. **WASH SOLN 10x Wash Solution**, 1 vial, 50 ml (**10x** concentrated);
see „Preparation of Reagents“.

4.2 Material required but not provided

- Microcentrifuge
- A calibrated microtiter plate reader (450 nm)
- Microplate mixer operating at 900 rpm
- Manual or automatic equipment for microtiter plate washing
- Vortex mixer
- Calibrated variable precision micropipettes and multichannel pipettes with disposable pipette tips
- Absorbent paper
- Distilled or deionized water
- Timer
- Semi logarithmic graph paper or software for data reduction

4.3 Storage conditions

When stored at 2-8°C unopened reagents will be stable until expiration date. Do not use reagents beyond this date. Opened reagents must be stored at 2-8°C. After first opening the reagents are stable for 30 days if used and stored properly. Keep away from heat and direct sunlight. Microtiter wells must be stored at 2-8°C. Take care that the foil bag is sealed tightly.

4.4 Preparation of reagents

Allow the reagents and the required number of wells to reach room temperature (18-25°C) before starting the test.

Wash Solution

Dilute 50 ml of 10X concentrated *Wash Solution* with 450 ml deionized water to a final volume of 500 ml. The diluted Wash Solution is stable for at least 12 weeks at room temperature (18-25°C). Precipitates may form when stored at 2-8°C, which should dissolve again by swirling at room temperature (18-25°C). The Wash Solution should only be used when the precipitates have completely dissolved.

4.5 Disposal of the kits

The disposal of the kit must be made according to the national regulations. Special information for this product is given in the Material Safety Data Sheet.

4.6 Damaged test kits

In case of any severe damage of the test kit or components, IBL-America have to be informed written, latest one week after receiving the kit. Severely damaged single components should not be used for a test run. They have to be stored until a final solution has been found. After this, they should be disposed according to the official regulations.

5 SAMPLE COLLECTION AND PREPARATION

Samples containing sodium azide must not be used in the assay. The saliva samples should be completely colorless. Even the slightest red color shows blood contamination. Such blood contamination will result in falsely elevated concentration values. In case of visible blood contamination the individual should discard the sample, rinse the collection device with water, also rinse the mouth with (preferably) cold water, wait for 10 minutes and take a new sample. Chewing anything during the sampling period must be avoided. Any pressure on the teeth may result in falsely elevated measurements due to an elevated content of gingival liquid in the saliva sample.

5.1 Sample Collection

For the correct collection of saliva we recommend to only use appropriate devices made from ultra-pure polypropylene (PP). Do not use any PE devices or Salivettes for sampling; in most cases this will result in significant interferences. Glass tubes can be used as well, but in this case special attention is necessary for excluding any interference caused by the stopper.

As the Cortisol secretion in saliva as well as in serum shows an obvious secretion pattern throughout the day, it is important to care for a proper sample timing of the sampling. In order to avoid arbitrary results it is recommended to always collect five samples within a period of two hours (multiple sampling) preferably before a meal. The morning peak normally appears during the first two hours after the average wake-up time. Therefore it is recommended to take five separate samples within a period of two hours (multiple sampling) directly after the usual wake-up time (e.g. 1 min, 30 min, 60 min, 90 min and 120 min). It is important to know that the timing of the morning peak is not related to the absolute time or day light. It is just related to the wake-up habits of the individual. If possible the volume of each single sample should be a minimum of 0.5 ml (better 1 ml).

As food might contain significant amounts of steroid hormones samples should be taken preferably while fasting. Do not collect samples within 60 minutes after eating a major meal, 12 hours after consuming alcohol or 60 minutes after brushing teeth. Rinse mouth with water 10 minutes prior to sample collection. Furthermore please avoid any strenuous physical exercises and intense stress situations.

5.2 Sample Storage and Preparation

Saliva samples may be stored at 2-8°C for up to one week. For longer storage, it is recommended to store the samples at ≤-20°C. Whenever possible samples preferably should be kept at a temperature of ≤-20°C. Avoid multiple freeze-thaw cycles.

Each sample has to be frozen, thawed, and centrifuged at least once in order to precipitate and separate the mucins. Upon arrival of the samples in the lab the samples have to be stored frozen at least overnight. In the next morning the frozen samples are thawed, brought to room temperature and mixed carefully. Then the samples have to be centrifuged for five to ten minutes. Now the clear colorless supernatant is easy to pipette. If the sample should show even a slight reddish tinge it should be discarded. Otherwise the concentration value most probably will be falsely elevated. Due to the episodic variations of the cortisol secretion the strategy of multiple sampling is highly recommended. If such a set of multiple samples has to be tested the lab (after at least one freezing, thawing, and centrifugation cycle) has to mix the aliquots of the five single samples in a separate sampling device and perform the testing from this mixture. If the shape of the morning peak has to be determined, all five morning samples have to be tested separately.

5.3 Sample Dilution

If in an initial assay a sample is found to contain more cortisol than the highest calibrator, the samples must be diluted with *Calibrator 0* and re-assayed as described in Assay Procedure. For the calculation of the concentrations this dilution factor has to be taken into account.

6 ASSAY PROCEDURE

6.1 General remarks

- All reagents and samples must be allowed to come to room temperature (18-25°C) before use. All reagents must be mixed without foaming.
- Once the test has been started, all steps should be completed without interruption.
- Use new disposal plastic pipette tips for each standard, control, or sample in order to avoid cross contamination.
- Absorbance is a function of incubation time and temperature. Before starting the assay, it is recommended that all reagents are ready, caps removed, all needed wells secured in holder, etc. This will ensure equally elapsed time for each pipetting step without interruption.
- As a general rule the enzymatic reaction is linearly proportional to time and temperature.
- Respect the incubation times as stated in this instructions for use.
- Duplicate determination of calibrators, controls and samples is recommended in order to identify potential pipetting errors.
- Microtiter plate washing is important. Improperly washed wells will give erroneous results. It is recommended to use a multichannel pipette or a multistepper, 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 solution, and that there are no residues in the wells.
- A calibrator curve must be established for every run

6.2 Assay procedure

1. Secure the desired number of coated strips in the frame holder.
2. Dispense **50 µl** of each **Calibrator**, **Control** and **Sample** in duplicates with new disposable tips into appropriate wells.
3. Dispense **50 µl** of **Enzyme Conjugate** into each well.
4. Incubate for **60 minutes** at room temperature (18-25°C) on a plate shaker (900 rpm).
5. Briskly empty the contents of the wells by aspiration or by decanting.
Rinse the wells 4 times with **diluted Wash Solution (300 µl per well)**. Strike the wells sharply on absorbent paper to remove residual droplets.
Important note: The sensitivity and precision of this assay is markedly influenced by the correct performance of the washing procedure!
6. Add **200 µl** of **Substrate Solution** to each well.
7. Incubate for **30 minutes** without shaking in the dark at room temperature (18-25°C).
8. Stop the enzymatic reaction by adding **50 µl** of **Stop Solution** to each well.
9. Determine the optical density (OD) of each well at **450 nm** within 15 minutes after adding the Stop Solution.

6.3 Calculation of results

1. Calculate the average optical density values for each set of calibrators, controls, and samples.
2. The obtained OD of the standards (y-axis, linear) are plotted against their concentration (x-axis, logarithmic) either on semi-logarithmic paper or using an automated method.
3. Using the mean absorbance value for each sample determine the corresponding concentration from the standard curve.
4. Automated method: The results in this instruction for use have been calculated automatically using a 4 PL (4 Parameter Logistics) curve fit. 4 Parameter Logistics is the preferred calculation method. Other data reduction functions may give slightly different results.
5. The concentration of the samples can be read directly from this standard curve. Samples with concentrations higher than that of the highest calibrator have to be further diluted. For the calculation of the concentrations this dilution factor has to be taken into account.

7 QUALITY CONTROL

Good laboratory practice requires that controls are run with each calibration curve. A statistically significant number of controls should be assayed to establish mean values and acceptable ranges to assure proper performance.

The use of control samples is advised to assure the day-to-day validity of results. The kit control values and the corresponding results are stated in the QC certificate added to the kit. The values and ranges stated at the QC sheet always refer to the current kit lot and should be used for direct comparison of the results.

It is also recommended to make use of national or international Quality Assessment programs in order to ensure the accuracy of the results. Employ appropriate statistical methods for analysing control values and trends. If the results of the assay do not fit to the established acceptable ranges of control materials results should be considered invalid. In this case, please check the following technical areas: Pipetting and timing devices, microtiter plate reader, expiration dates of reagents, storage and incubation conditions, aspiration and washing methods. After checking the above mentioned items without finding any error contact your distributor or IBL-America directly.

8 PERFORMANCE CHARACTERISTICS

8.1 Analytical Sensitivity

The analytical sensitivity of the IBL-America Cortisol free in Saliva ELISA was calculated by subtracting two standard deviations from the mean of twenty (20) replicate analyses of *Calibrator 0*. The analytical sensitivity of the assay is 0.019 ng/ml.

8.2 Specificity (Cross Reactivity)

The following materials have been evaluated for cross reactivity.

Steroids	% Crossreactivity
Testosterone	< 0.1
Corticosterone	6.2
Cortisone	0.8
11-Deoxycorticosterone	2.6
11-Deoxycortisol	50
Dexamethasone	< 0.1
Estriol	< 0.1
Estrone	< 0.1
Prednisolone	100
Prednisone	0.9
Progesterone	< 0.1
17-Hydroxyprogesterone	1.3
Danazole	< 0.1
Pregnenolone	< 0.1
Estradiol	< 0.1
Androstenedione	< 0.1

8.3 Assay Dynamic Range

The range of the assay is between 0.1 - 30 ng/ml.

8.4 Reproducibility

8.4.1 Intra-Assay

The intra-assay variation was determined by replicate measurements of three saliva samples within one run using the IBL-America Cortisol free in Saliva ELISA. The intra-assay variation is shown below:

	Sample 1	Sample 2	Sample 3
Mean (ng/ml)	0.64	2.01	4.87
SD (ng/ml)	0.05	0.08	0.21
CV (%)	7.1	4.1	4.3
n =	20	20	20

8.4.2 Inter-Assay

The inter-assay variation was determined by duplicate measurements of three saliva samples in ten different runs using the IBL-America Cortisol free in Saliva ELISA. The inter-assay variation is shown below:

	Sample 1	Sample 2	Sample 3
Mean (ng/ml)	0.65	2.05	5.31
SD (ng/ml)	0.03	0.15	0.48
CV (%)	4.2	7.5	9.1
n =	10	10	10

8.5 Recovery

Recovery of the IBL-America Cortisol free in Saliva ELISA was determined by adding increasing amounts of the analyte to three different saliva samples containing different amounts of endogenous analyte. Each sample (non-spiked and spiked) was assayed and analyte concentrations of the samples were calculated from the standard curve. The percentage recoveries were determined by comparing expected and measured values of the samples.

Saliva	Spiking	Measured Concentration (ng/ml)	Expected Concentration (ng/ml)	Recovery %
1	native	0.53	-	-
	3 ng/mL	3.35	3.53	95%
	5 ng/mL	6.57	5.53	119%
	7 ng/mL	8.31	7.53	110%
2	native	0.54	-	-
	3 ng/mL	3.52	3.54	99%
	5 ng/mL	7.02	5.54	126%
	7 ng/mL	8.61	7.54	114%
3	native	0.82	-	-
	3 ng/mL	3.51	3.82	92%
	5 ng/mL	6.32	5.82	108%
	7 ng/mL	9.15	7.82	117%

8.6 Linearity

Three saliva samples containing different amounts of analyte were serially diluted with Calibrator 0 and assayed with the IBL-America Cortisol free in Saliva ELISA. The percentage linearity was calculated by comparing the expected and measured values for cortisol.

Saliva	Dilution	Measured Concentration (ng/ml)	Expected Concentration (ng/ml)	Linearity %
1	native	4.13	-	-
	1 in 2	2.04	2.07	99%
	1 in 4	1.07	1.03	104%
	1 in 8	0.60	0.52	115%
2	native	4.13	-	-
	1 in 2	2.26	2.07	109%
	1 in 4	1.24	1.03	120%
	1 in 8	0.66	0.52	127%
3	native	4.48	-	-
	1 in 2	2.32	2.24	104%
	1 in 4	1.33	1.12	119%
	1 in 8	0.65	0.56	116%

9 LIMITATIONS OF PROCEDURE

Reliable and reproducible results will be obtained when the assay procedure is performed with a complete understanding of the package insert instruction and with adherence to GLP (Good Laboratory Practice). Any improper handling of samples or modification of this test might influence the results.

9.1 Interfering Substances

- Blood contamination in saliva samples will affect results, and usually can be seen by eye. In case of visible blood contamination, the individual should discard the sample, rinse the sampling device with water, wait for 10 minutes and take a new sample.
- Samples containing sodium azide should not be used in the assay. This can cause false results.
- The result of any immunological test system may be affected by heterophilic antibodies, anti-species antibodies or rheumatoid factors present in human samples (11-13). For example, the presence of heterophilic antibodies in individuals who are regularly exposed to animals or animal products may interfere with immunological tests. Therefore, interference with this immunoassay cannot be excluded. If unplausible results are suspected, they should be considered invalid and verified by further testing.

9.2 High-Dose Hook Effect

A High-Dose-Hook Effect is not known for competitive assays.

9.3 Drug Interferences

Any medication (cream, oil, pill etc) containing Cortisol of course will significantly influence the measurement of this analyte in saliva. The same is true for any medication containing Prednisolone. The significance of the determination of cortisol can be affected if the individual was treated with natural or synthetic steroids. Any medication should be taken into account when assessing the results.

10 LEGAL ASPECTS

10.1 Reliability of Results

The test must be performed exactly as per the manufacturer's instructions for use. Moreover the user must strictly adhere to the rules of GLP (Good Laboratory Practice) or other applicable national standards and/or laws. This is especially relevant for the use of control reagents. It is important to always include a sufficient number of controls within the test procedure for validating the accuracy and precision of the test.

The test results are only valid if all controls meet the specified ranges and all other test parameters are also within the given assay specifications. In case of any doubt or concern please contact IBL-America.

10.2 Liability

Any modification of the test kit and/or exchange or mixture of any components of different lots from one test kit to another could negatively affect the intended results and validity of the overall test. Such modification and/or exchanges invalidate any claim for replacement. Regardless, in the event of any claim, the manufacturer's liability is not to exceed the value of the test kit. Any damage caused to the test kit during transportation is not subject to the liability of the manufacturer.

11 REVISION HISTORY OF INSTRUCTION FOR USE








Changes from the previous version 16-03/21 to actual version 17-08/23

Cover page	Layout change
General	Editorial changes
Chapter 9.1 & 11	added
Updated information in chapter 1.1, 3, 4.2, 4.4, 5.1, 5.2, 6.1, 9.3, 12	

12 REFERENCES

1. Fleiner T., Zijlstra W, Dauth H., Haussermann P.
Evaluation of a hospital-based day-structuring exercise programme on exacerbated behavioural and psychological symptoms in dementia – the exercise carousel: study protocol for a randomised controlled trial, *BioMedCentral* **2015** 16:228
2. De Steenwinkel F.D.O, Hokken-Koelega A.C.S, Hazes J.M.W, Dolhain R.J.E.M.
The influence of foetal prednisone exposure on the cortisol level in the offspring
Clinical Endocrinology **2014**, 80, 804-810
3. Balsalobre-Fernández C., Tjero-González C.M., del Campo-Vecino J.
Relationships between Training Load, Salivary Cortisol Responses and Performance during Season Training in Middle and Long Distance Runners; *PLOS ONE* **2014**, Vol. 9, Issue 8
4. LK Nieman, BMK Biller, JW Findling, J Newell-Price, VM Montori
The diagnosis of Cushing's syndrome: An Endocrine Society Clinical Practice Guideline
J. Clin. Endocrin. & Metabol. **2008**, Vol.93, No.5, pages 1526-1540
5. Kirschbaum C., Hellhammer DH: Salivary cortisol in psychobiological Research: An overview, *Neuropsychobiology*, **1989**, 22, 150-169
6. Kirschbaum C, Hellhammer Dh.
Salivary cortisol in psychoneuroendocrine Research: Recent developments and applications, *Psychoneuroendocrinology* **1994**, 19, pp 313-333
7. Vining RF, et al., Salivary cortisol: a better measure of adrenal cortical function than serum cortisol, *Ann Clin Biochem*, **1983**, 20, 329-335
8. L.D. Dorn, J.F. Lucke, T.L. Loucks, S.L. Berga
Salivary Cortisol reflects serum Cortisol: Analysis of circadian profiles.
Ann Clin Biochem **2007** Vol. 44, pages 281-284
9. Aardal E. and Holm AC
Cortisol in Saliva – Reference Ranges and Relation to Cortisol in Serum
Eur. J. Clin. Chem. Clin. Biochem. (**1995**), 33:927-932
10. Garde A.H. and Hansen A.M.
Long-term stability of salivary cortisol
Scand J Clin Lab Invest **2005**; 65:433-436
11. Marks V.
False-Positive Immunoassay Results: A Multicenter Survey of Erroneous Immunoassay Results from Assays of 74 Analytes in 10 Donors from 66 Laboratories in Seven Countries
Clinical Chemistry **2002**, 48:11: 2008-2016
12. Tate J. & Ward G.
Interferences in Immunoassays,
Clin. Biochem Rev Vol 25, May **2004**
13. Selby C.
Interference in Immunoassays;
Ann. Clin. Biochem **1999**, 36: 704-721

SYMBOLS USED WITH IBL-AMERICA ASSAYS

Symbol	English	Deutsch	Française	Espanol	Italiano
	European Conformity	CE-Konformitäts-kennzeichnung	Conforme aux normes européennes	Conformidad europea	Conformità europea
	Consult instructions for use	Gebrauchsanweisung beachten	Consulter les instructions d'utilisation	Consulte las Instrucciones	Consultare le istruzioni per l'uso
	In vitro diagnostic device	In-vitro-Diagnostikum	utilisation Diagnostic in vitro	Diagnóstico in vitro	Per uso Diagnostica in vitro
	For research use only	Nur für Forschungszwecke	Seulement dans le cadre de recherches	Sólo para uso en investigación	Solo a scopo di ricerca
	Catalogue number	Katalog-Nr.	Référence	Número de catálogo	No. di catalogo
	Lot. No. / Batch code	Chargen-Nr.	No. de lot	Número de lote	Lotto no
	Contains sufficient for <n> tests/	Ausreichend für "n" Ansätze	Contenu suffisant pour "n" tests	Contenido suficiente para <n> ensayos	Contenuto sufficiente per "n" saggi
	Note warnings and precautions	Warnhinweise und Vorsichtsmaßnahmen beachten	Avertissements et mesures de précaution font attention	Tiene en cuenta y advertencias precauciones	Annoti avvisi e le precauzioni
	Storage Temperature	Lagerungstemperatur	Température de conservation	Temperatura de conservacion	Temperatura di conservazione
	Expiration Date	Mindesthaltbarkeits-datum	Date limite d'utilisation	Fecha de caducidad	Data di scadenza
	Legal Manufacturer	Hersteller	Fabricant	Fabricante	Fabbricante
<i>Distributed by</i>	Distributed by	Vertrieb durch	Distribution par	Distribución por	Distribuzione da parte di
	Version	Version	Version	Versión	Versione
	Single-use	Einmalverwendung	À usage unique	Uso único	Uso una volta