

Dried Blood Spot (DBS) Prolactin ELISA



AL-1016-i

INTENDED USE

The Prolactin (DBS) Enzyme-Linked Immunosorbent Assay (ELISA) Kit provides materials for the quantitative measurement of prolactin in human dried blood spot. This assay is intended for in vitro diagnostic use.

Prolactin is a 198-amino acid, 23 kDa polypeptide hormone secreted in significant amounts by the anterior pituitary gland. The prolactin molecule has extensive sequence homology with growth hormone and placental lactogen1. Recent studies have revealed molecular heterogeneity for prolactin in both pituitary extracts and blood^{2,3}. Prolactin secretion is regulated by complex mechanisms involving neurotransmitters and endocrine hormones. Many of the regulatory pathways involve hypothalamic secretion of dopamine, which inhibits prolactin secretion4. Prolactin, in synergy with estrogen, plays an important physiologic role in the initiation and maintenance of mammary gland growth and lactation in humans^{1,4}. In addition, prolactin may have effects on cell growth in other tissues and on immune function. Particularly when present in high concentrations, prolactin may have inhibitory effects on gonadal function. Prolactin is present in several body fluids, including plasma, amplictic fluid, milk, mucosal secretions, and cerebrospinal fluid. Relative elevations in plasma prolactin concentrations occur during ovulation, pregnancy hursing an stress^{1,2,4}. Abnormal elevations in plasma prolactin levels. hyperprolactinemia, can occur as a result of pituitary adenomas, and may also be seen in other anatomic and traumatic abnormalities involving the pituitary gland (e.g. tumors, surgery, trauma), as a consequence of certain pharmacologic agents, and primary hypothyroidism. Low prolactin hypoprolactinemia, is observed in cases of hypopituitarism 6.6.

PRINCIPLE OF THE TEST

The DBS Prolactin ELISA is a quantitative three-step sandwich type immunoassay. In the first step Calibrators, Controls and extracted dried blood spot samples are added to Prolactin antibody coated microtiter wells and incubated. After the first incubation, and washing, the wells are incubated with biotinylated Prolactin antibody solution. After the second incubation and washing, the wells are incubated with streptavidin horseradish peroxidase conjugate (SHRP) solution. After the third incubation and washing step, the wells are incubated with substrate solution (TMB) followed by an acidic stopping solution. In principle, the antibody-biotin conjugate binds to the solid phase antibody-antigen complex which in turn binds to the streptavidin-enzyme conjugate. The biotin-SHRP complex bound to the well is detected by enzymesubstrate reaction. The degree of enzymatic turnover of the substrate is determined by dual wavelength absorbance measurement at 450 nm as primary test filter and 630 nm as reference filter. The absorbance measured is directly proportional to the concentration of Prolactin in the samples and calibrators.

MATERIALS SUPPLIED

CAL-199A Prolactin Calibrator A

One vial, 2 mL, labeled Prolactin Cal. A, containing 0 ng/mL Prolactin in protein based buffer and Pro-Clean 400. Store unopened at 2-8°C until the expiration date.

Standardization Note: The Prolactin calibrators are traceable to the World Health Organization International preparation NIBSC code 83/573 version 5.0.

CAL-199B - CAL-199E Prolactin Calibrators B - E (Lyophilized)

Five vials, labeled B-E, containing concentrations of approximately 2.2 – 366.0 ng/mL Prolaction protein based buffer and Pro-Clean 400. Refer to **calibration** card for exact concentrations. Store unopened at 2 to 8°C until the expiration date. Reconstitute, calibrators B-E with 1 mL deionized water. Solubilize, mix well, and use after reconstitution, Aliquot and freeze in plastic vials immediately for multiple use any discard after the run. Avoid repeated freeze thaws.

CTR 199-I & CTR-199- Prolactin Controls I & II (Lyophilized)

Two vials labeled Levels I and II containing low and high Prolactin concentrations in protein based buffer and Pro-Clean 400. Refer to calibration card for exact concentrations. Store unopened at 2 to 8°C until the expiration date. Reconstitute control Levels I and II with 1 mL deionized water. Solubilize, mix well, and use after reconstitution. Aliquot and freeze immediately in plastic vials for multiple use and discard after run. Avoid repeated freeze thaws.

**Traceability: The Prolactin calibrators are traceable to the World Health Organization International preparation NIBSC code 83/573 version 5.0.

PLT-199 Prolactin Antibody Coated Microtitration strips

One strip-holder, containing 12 strips and 96 microtitration wells with anti-Prolactin antibody immobilized to the inside wall of each well. Store at 2-8°C until expiration date in the resealable pouch with a desiccant to protect from moisture.

ASB-199 Prolactin Assay Buffer

One bottle, 12 mL, containing a protein-based (BSA)-buffer with a non-mercury preservative. Store at 2-8°C until expiration date.

BCR-1016 Prolactin Biotin Conjugate Ready-To-Use (RTU)

One bottle, 12mL containing biotinylated anti-Prolactin antibody in a proteinbased buffer with a non-mercury preservative. Store at 2-8°C until expiration date.

SAR-1016 Prolactin Streptavidin-Enzyme Conjugate-Ready-To-Use (RTU)

One bottle, 12 mL, containing streptavidin-HRP (horseradish peroxidase) in a protein-based buffer and a non-mercury preservative. Store at $2-8^{\circ}\text{C}$ until expiration date.

EXB-129 Extraction Buffer/Sample Diluent

One bottle, 45 mL, containing a protein-based (BSA)-buffer with a non-mercury preservative. Store at 2-8°C until expiration date.

Note: Additional bottles of EXB-129, Extraction Buffer/Sample Diluent can be ordered if higher dilution is required.

TMB-100 TMB Chromogen Solution

One bottle, 12 mL, containing a solution of tetramethylbenzidine (TMB) in buffer with hydrogen peroxide. Store at 2-8°C until expiration date.

STP-100 Stopping Solution

One bottle, 12 mL, containing 0.2 M sulfuric acid. Store at 2-30 $^{\circ}\text{C}$ until expiration date.

WSH-100 Wash Concentrate A

One bottle, 60 mL, containing buffered saline with a nonionic detergent. Store at 2-30°C until expiration date. Dilute 25-fold with deionized water prior to use.

MATERIALS REQUIRED BUT NOT PROVIDED

- Microplate absorbance reader capable of absorbance measurement at 450 nm, 405 nm, and 630 nm.
- 2. Microplate orbital shaker.
- 3. Microplate washer.
- 4. Semi-automated/manual precision pipette to deliver 10–250 μL.
- 5. Vortex mixer.
- 6. Deionized water.
- 7. Repeater Pipette
- 8. Disposable 12 x 75 mm culture tubes
- 9. Tight fitting 12 x 75 mm tube racks
- 10. Ahlstrom 226 or Whatman 903 (Protein Saver Card)
- 11. DBS 5/16" (7.9mm) round puncher. For manual punching Punchling catalog number 53700 from McGill incorporated can be used.

WARNINGS AND PRECAUTIONS

For in vitro use.

The following precautions should be observed:

- a) Follow good laboratory practice.
- b) Use personal protective equipment. Wear lab coats and disposable gloves when handling immunoassay materials.
- Handle and dispose of all reagents and material in compliance with applicable regulations

WARNING: Potential Biohazardous Material

This reagent may contain some human source material (e.g. serum) or materials used in conjunction with human source materials. Handle all reagents and patient samples at a Biosafety Level 2, as recommended for any potentially infectious human material in the Centers for Disease Control/National Institutes of Health manual "Biosafety in Microbiological and Biomedical Laboratories," 5th Edition, 2007.7

WARNING: Potential Chemical Hazard

Some reagents in this kit contain Pro-Clean 400 and Sodium azide⁸ as a preservative. Pro-Clean 400 and Sodium azide in concentrated amounts are irritants to skin and mucous membranes.

For further information regarding hazardous substances in the kit, please refer to the SDS, either at AnshLabs.com or by request.

SAMPLE COLLECTION AND PREPARATION

Dried Blood Spot is the recommended sample type.

 Use with capillary blood samples collected and dried on filter paper (Ahlstrom 226 or Whatman 903 Protein Saver Card) according to the standard procedures established for blood collection on filter paper.

- Wipe away the first blood drop and apply surface of the first filter
 paper circle to the next large drop of blood, allowing the blood to fill
 and completely saturate the circle. Note: Alternatively, the filter
 paper can be spotted by adding 60 μL of whole blood from K2- EDTA
 tubes.
- 3. Never use the front as well as back of the paper to fill the circle.
- 4. Fill at least two circles and if possible, all circles with blood.
- After collection, dry the blood impregnated filter papers for 2-4 hours in a horizontal position at room temperature.
- 6. The dried filter paper blood spots should be stored in a low permeability re-sealable pouch at 2-8°C with a desiccant for up to 1 week or frozen at -20°C or lower for up to 3 months. Note: The use of desiccant and vacuum packing to protect from moisture is highly recommended.

PROCEDURAL NOTES

- A thorough understanding of this package insert is necessary for successful use of the DBS Prolactin ELISA assay. It is the user's responsibility to validate the assay for their purpose. Accurate results will only be obtained by using precise laboratory techniques and following the package insert.
- 2. A calibration curve must be included with each assay.
- 3. Bring all kit reagents to room temperature (23 ± 2°C) before use. Thoroughly mix the reagents before use by gentle inversion. Do not mix various lots of any kit component and do not use any component beyond the expiration date.

Use a clean disposable pipette tip for each reagent, calibrator, control, or sample. Avoid microbial contamination of reagents or contamination of the substrate solutions with the HRP conjugates. The enzyme used as the label is inactivated by oxygen, and is highly sensitive to microbial contamination, Sodium Azide, Hypochlorous acid, and aromatic chlorohydrocarbons often found in laboratory water supplies. Use deionized water.

Incomplete washing will adversely affect the outcome and assay precision. Care should be taken to add TMB into the wells to minimize potential assay drift due to variation in the TMB incubation time. Avoid exposure of the reagents to excessive heat or direct sunlight during storage and incubation.

PREPARATION OF REAGENTS

- Prolactin Calibrators B-E and Prolactin Controls I & II: Tap and reconstitute Prolactin Calibrators B-E and Prolactin Controls I & II each with 1 mL deionized water and solubilize for 10 minutes, vortex and use.
 Note: Dilute reconstituted calibrator B with a factor of 1:3. In the case of duplicates use the following: In a separate vial add 150μL of Reconstituted Calibrator B to 300μL Calibrator A (0 ng/mL). Vortex and add in calibration curve.
- Wash Solution: Dilute wash concentrate 25-fold with deionized water.
 The wash solution is stable for one month at room temperature (23 ± 2°C) when stored in a tightly sealed bottle.
- Microtitration Wells: Select the number of coated wells required for the assay. The remaining unused wells should be placed in the resealable pouch with a desiccant. The pouch must be resealed to protect from moisture.

DBS Extraction Procedure

Extraction of Prolactin from dried blood spots should be performed on the same day prior to testing.

NOTE: All blood spots should be inspected for quality.

- Do not use spots if the circle is not filled and impregnated with blood.
- Do not use irregular shaped spots, spots that are not impregnated throughout, or spots with multiple spotting.
- Do not use spots that have not been properly dried.
- 1. Label two 12 X 75 culture tubes for each unknown dried blood sample.
- 2. Punch out **two filter paper discs (7.9 mm),** impregnated with the unknown dried blood specimen, onto a clean surface and transfer the discs using clean tweezers into the corresponding tube.
- 3. Alternatively, punch out the paper disc directly into the culture tube using the commercially available automated punchers.
- 4. Add 450 μL of the Extraction Buffer (EXT-129) to each tube, vortex well.
- 5. Place the tubes in a tight-fitting tube rack and incubate the tubes, shaking at a slow speed (500 600 rpm) at room temperature for 60 minutes.
- 6. Transfer the liquid from one tube into the corresponding second labeled tube. Leave the blood spot in the initial tube.
- 7. The blood extract is now ready for analysis.
- 8. The extracted sample (without the extracted blood spot) is stable for up to 7 days at -20° C.
- 9. Use the **calibrator assignment for two spots** as mentioned in the calibration card for plotting the calibration curve.

ASSAY PROCEDURE

Allow all specimens and reagents to reach room temperature ($23 \pm 2^{\circ}$ C) and mix thoroughly by gentle inversion before use. Calibrators, controls, and unknowns should be assayed in duplicate.

- Reconstitute Prolactin Calibrators B-E and Prolactin Controls I & II each with 1 mL deionized water as per the "Preparation of Reagents" section of this package insert. Solubilize for 10 minutes. Mix well by gentle vortex.
- 2. Label the microtitration strips to be used.
- Pipette 20 μL of the Calibrators and Controls (Including B/3. Refer step 1
 in Preparation of Reagents) to the appropriate wells and add 100 μL of the
 Prolactin Assay Buffer to calibrators and controls wells using a repeater
 pipette.
- Pipette 120 μL of the Extracted DBS samples (see DBS extraction procedure) to the appropriate wells. Note: Do not add Prolactin Assay Buffer to the extracted sample wells.
- Incubate the plate, shaking at a fast speed (600-800 rpm) on an orbital microplate shaker, for 60 minutes at room temperature (23 ± 2°C).
- Aspirate and wash each strip 5 times (350 μL/pecwell) with Wash Solution using an automatic microplate washer.
- Add 100 µL of the Prolactin Biotin Conjugate Ready To-Use (RTU) to each well using a repeater pipette.
- Incubate the plate, shaking at a fast speed (600-800 rgm) on an orbital microplate shaker, for 60 minutes at room temperature (23 ± 2°C).
- Aspirate and wash each strip 5 times (350 µL/per well) with Wash Solution using an automatic microplate washer.
- Add 100 µL of the Prolactin Streptavidin-Enzyme Conjugate-RTU to each well using a repeater pipette.
- Incubate the plate, shaking at a fast speed (600-800 rpm) on an orbital microplate shaker, for 15 minutes at room temperature (23 ± 2°C).
- 12. Aspirate and wash each strip 5 times (350 µL/per well) with the Wash Solution using an automatic microplate washer.
- Add 100 µL of the TMB chromogen solution to each well using a repeater pipette. Avoid exposure to direct sunlight.
- 14. Incubate the wells, shaking at **600–800 rpm** on an orbital microplate shaker, for **8-12 min** at room temperature (23 ± 2°C).
 - NOTE: Visually monitor the color development to optimize the incubation time.
- 15. Add 100 μ L of the Stopping Solution to each well using a repeater pipette. Read the absorbance of the solution in the wells within 20 minutes, using a microplate reader set to 450 nm.

NOTE: Zero calibrator should be programmed as "Blank" while reading the optical density. If instrument has a wavelength correction, set the instrument to dual wavelength measurement at 450 nm with background wavelength correction at 630 nm.

RESULTS

NOTE: The results in this package insert were calculated by plotting the **log** optical density (OD) data on the y-axis and log Prolactin concentration on X-axis using a cubic regression curve-fit. Alternatively, log vs. log quadratic regression curve-fit can be used. Other data reduction methods may give slightly different results.

- Calculate the mean optical density (OD) for each calibrator, control, or Unknown.
- 2. Optimum results can be obtained at incubation temperature of $(23 \pm 2^{\circ}C)$.
- Plot the log of the mean OD readings for each of the Calibrators along the y-axis versus log of the Prolactin concentrations in ng/mL along the x-axis, using a cubic regression curve-fit.
- Determine the Prolactin concentrations of the Controls and unknowns from the calibration curve by matching their mean OD readings with the corresponding Prolactin concentrations.
- Any sample reading higher than the highest Calibrator should be appropriately further diluted with the 0 ng/mL (Cal. A) and re-assayed.
- Any sample reading lower than the analytical sensitivity should be reported as such.

MITATIONS

The reagents supplied in this kit are optimized to measure Prolactin levels in human DBS. If there is evidence of microbial contamination or excessive turbidity in a reagent, discard the vial. For assays employing antibodies, the possibility exists for interference by heterophile antibodies in the samples.9

The DBS Projectin ELISA results should be interpreted with respect to the total clinical presentation of the patient, including symptoms, clinical history, data from additional tests, and other appropriate patient examination information.

QUALITY CONTROL

- Each laboratory should establish mean values and acceptable ranges to assure proper performance.
- Prolactin ELISA controls or other commercial controls should fall within established confidence limits.
- The confidence limits for Prolactin controls are printed on the Calibration Card.
- A full calibration curve, low, and high-level controls, should be included in each assay.
- TMB should be colorless. Development of any color may indicate reagent contamination or instability.

REPRESENTATIVE CALIBRATION CURVE DATA

Well Number	Well Contents Calibrators	Mean Absorbance (OD)	Conc. (ng/mL)
A1, A2	Α	0.010 (Blank)	0
B1, B2	B/3	0.048	2.2
C1, C2	В	0.15	6.6
D1, D2	С	0.53	22.8
E1, E2	D	1.7	84.0
F1, F2	E	3.8	366.0

CAUTION: The above data must not be employed in lieu of data obtained by the user in the laboratory.

ANALYTICAL CHARACTERISTICS

All analytical characteristics are stated in ng/mL.

Analytical Sensitivity:

The analytical sensitivity in the assay as calculated by the interpolation of mean plus two standard deviation of 16 replicates of calibrator A (0 ng/mL) and calibrator B (6.6 ng/mL) is 0.41 ng/mL.

Imprecision:

Reproducibility of the Prolactin ELISA assay was determined in a study using three samples. The study included a total of 6 assays, 3 replicates of each per assay (n=18). Representative data were calculated and are presented in the following table.

Sample	Mean conc.	Within run		Total	
oup.c	(ng/mL)	SD	%CV	SD	%CV
Pool-1	7.13	0.20	0.03	0.24	3.37%
Pool-2	30.21	0.65	0.02	0.91	3.00%
Pool-3	103.55	3.58	0.03	7.80	7.53%

Linearity:

Multiple dilutions of the three serum samples containing various Prolactin levels were diluted with Calibrator A. The % recovery on individual samples is represented in the following table.

Sample	Dilution Factor	Expected Conc. (ng/mL)	Observed Conc. (ng/mL)	% Recovery
	Neat Value	64.30		
	2	32.15	35.26	-4/
Sample 1	4	16.08	17.43	111%
	8	8.04	9.10	~ .0
	16	4.02	4.51	$U: \mathcal{A}'$
	Neat Value	58.41	0	
Sample 2	2	29.21	30.70	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Sample 2	4	14.60	16.36	C 1170
	8	7.30	8.46	12 VC
	Neat Value	31.91		ζ,
Sample 3	2	15.96	17.22	111%
	4	7.98	9.16	V

Recovery:

Known amounts of Prolactin were added to five serum samples containing different levels of endogenous Prolactin. The concentration of prolactin was determined before and after the addition of exogenous Prolactin and the percent recovery was calculated.

percent recov	very was calculate	•		
Sample Endogenous Conc. (ng/mL)		Expected Conc. (ng/mL)	Observed Conc. (ng/mL)	% Recovery
		16.66	16.72	100%
S1	4.69	28.62	27.09	95%
		40.59	37.62	93%
		15.21	16.59	109%
S2	3.17	27.25	26.12	96%
		39.29	39.30	100%
	9.29	21.02	20.33	97%
S3		32.76	30.27	92%
		44.50	39.75	89%
		62.66	59.92	96%
S4	53.11	72.20	68.46	95%
		81.75	78.01	95%
	13.18	24.72	23.45	95%
S5		36.26	33.99	94%
		47.80	38.90	81%

Analytical Specificity:

FSH, LH, hCG, and TSH when tested at twice the physiological dose were below the detection limit of the assay.

Monoclonal antibody pair used in the assay *detects human, bovine and monkey Prolactin.*

Hook Effect:

There is no high-dose hook effect at Prolactin concentrations up to 3000 ng/mL.

Expected Value:

The expected prolactin concentration ranges (95% CI) for Prolactin in males and females were calculated and are listed in the table below.

Population	Age Range (Yrs.)	No. of Specimens	Median Prolactin (ng/mL)	95% CI Range Prolactin (ng/mL)
Male	18-89	50	20.8	4.9 - 58.2
Female	15-91	54	25.6	6.3 - 236.9

The expected prolactin concentration ranges (95% CI) for Prolactin in pregnant females in first and second trimesters were calculated and are listed in the table below.

Population	Age Range (Yrs.)	Gest, Age (wks., days)	No. of Specimens	Median Prolactin Conc. (ng/mL)	95% CI Range Prolactin (ng/mL)
1st C	17-40	11,5-14,1	19	52.9	31.9 - 256.1
2nd Trimester	19-42	15,2 – 20,1	20	105.8	37.1 - 237.6

Interference

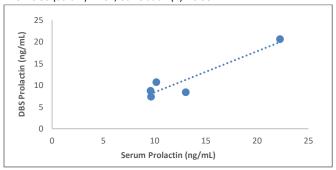
When potential interferents (Hemoglobin, biotin, bilirubin, and intralipids) were added at least two times their physiological concentration to control sample, Prolactin concentration were within ± 10% of the control as represented in the following table. This study was based on NCCLS EP-7 to serum matrix added.

Interferents	Interferent Dose	Analyte Conc. (ng/mL)	Spiked Sample Value (ng/mL)	% Difference
	1 mg/mL	12.24	11.86	-3.1
Hemoglobin	0.5 mg/mL	13.03	12.78	-1.9
	0.1 mg/mL	12.40	12.40	0.0
	1 mg/mL	15.63	15.32	-2.0
Hemoglobin	0.5 mg/mL	16.59	16.65	0.4
	0.1 mg/mL	17.54	16.81	-4.1
	1200 ng/mL	12.97	12.53	-3.4
Biotin	600 ng/mL	12.85	12.95	0.8
	200 ng/mL	12.57	12.91	2.7
	1200 ng/mL	15.78	15.74	-0.3
Biotin	600 ng/mL	16.41	16.93	3.1
	200 ng/mL	17.63	18.21	3.3
	20 mg/mL	18.11	18.52	2.3
Intralipids	10 mg/mL	18.54	18.52	-0.1
	5 mg/mL	18.72	18.67	-0.2
	20 mg/mL	21.59	22.53	4.3
Intralipids	10 mg/mL	24.12	24.80	2.8
	5 mg/mL	25.28	23.56	-6.8
Bilirubin	0.66 mg/mL	13.87	13.52	-2.6
BIIII UDIII	0.2 mg/mL	16.82	17.23	2.4
Bilirubin	0.66 mg/mL	15.31	15.56	1.7
DIIII UDIII	0.2 mg/mL	20.97	21.81	4.0

Method Comparison:

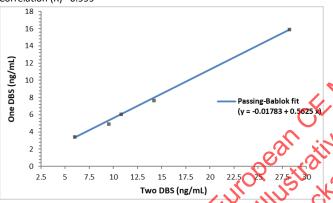
Serum vs. Dried Blood Spot: Five matched serum samples were compared with dried blood spot in Prolactin ELISA Assay (AL-199). Analysis of the results yielded the following regression:

DBS = 0.95 (Serum) - 1.07, Correlation (R) = 0.937



Two versus One Dried Blood Spots: Extraction was performed using five matched one versus two dried blood spots. Passing Bablok analysis of the results yielded the following Regression:

One DB Spot Extracted = 0.56 (Two DB Spots Extracted) - 0.018 Correlation (R) =0.999



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For in vitro diagnostic use.

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European Representative: RD-RatioDiagnostics GmbH

Westerbachstr.47 60489 Frankfurt

Germany



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FOR EXPORT ONLY

Symbols used with Ansh Labs Assays

Symbol	English	Deutsch	Français	Español	Italiano	
(€	European Conformity	CE-Konfirmitäts- kennzeichnung	Conformité aux normes européennes	Conformidad europea	Conformità europea	
\triangle	Caution	Vorsicht	mise en garde	precaución	attenzione	
Ţ i	Consult instructions for use	Gebrauchsanweisung beachten	Consulter les instructions d'utilisation	Consulte las instrucciones de uso	Consultare le istruzioni per l'uso	
IVD	In vitro diagnostic device	In-vitro-Diagnostikum	Usage Diagnostic in vitro	Para uso Diagnóstico in vitro	Per uso Diagnostica in vitro	
REF	Catalogue number	Katalog-Nr.	Numéro de catalogue	Número de catálogo	Numero di Catalogo	
LOT	Lot. No. / Batch code	Chargen-Nr.	Numéro de lot	Número de lote	Numero di lotto	
1	Storage Temperature	Lagerungstemperatur	Température de conservation	Temperatura de conservación	Temperatura di conservazione	
	Expiration Date	Mindesthaltbarkeits- datum	Date limite d'utilisation	Fecha de caducidad	Data di scadenza	
M	Date of Manufacture	Herstellungsdatum	date de fabrication	fecha de manufactura	Data di produzione	
	Legal Manufacturer	Hersteller	Fabricant	Fabricante	Fabbricante	
Content	Content	Inhalt	Conditionnement	Contenido	Contenuto	
Volume/No.	Volume / No.	Volumen/Anzahl	Volume/Quantite	Volumen/Número	Volume/Quantità	
\(\sum_{96}\)	96-well plate	Platte mit 96 Vertiefungen	Rlaque à 96 puits	placa de 96 pocillos	piastra a 96 pozzetti	
Content Content Inhalt Conditionmement Contenido Contenuto Volume/No. Volume / No. Volumen/Anzahl Volume/Quantità Platte mit 96 Vertiefungen Relaque à 96 puits placa de 96 pocillos piastra a 96 pozzetti						

Document No: IFU.AL.1016-i Revision No: 02 Release Date: 01/10/2022 DBS Prolactin ELISA CE