

Instructions for Use

Human IL-10 High Sensitivity ELISA

Enzyme immunoassay for the qualitative and quantitative determination of IL-10 in supernatants, buffered solutions or serum and plasma samples.

REF 30246278

 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

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Table of Contents

| | |
|--|----|
| 1. Intended use | 2 |
| 2. Introduction | 2 |
| 2.1. Principle of the method | 2 |
| 3. Reagents provided and reconstitution | 3 |
| 4. Materials required but not provided | 3 |
| 5. Storage Instructions | 4 |
| 6. Specimen collection, processing & storage | 4 |
| 7. Safety & precautions for use | 5 |
| 8. Assay Preparation | 6 |
| 8.1. Assay Design | 6 |
| 8.2. Preparation of Wash Buffer | 6 |
| 8.3. Preparation of Standard Diluent Buffer 1X | 6 |
| 8.4. Preparation of Standard | 7 |
| 8.5. Preparation of Samples | 7 |
| 8.6. Preparation of Biotinylated Anti-IL-10 | 7 |
| 8.7. Preparation of Streptavidin-HRP solutions 1 and 2 | 8 |
| 8.8. Preparation of Amplifier | 8 |
| 9. Method | 9 |
| 10. Data Analysis | 10 |
| 11. Assay limitations | 10 |
| 12. Performance Characteristics | 11 |
| 12.1. Sensitivity | 11 |
| 12.2. Specificity | 11 |
| 12.3. Precision | 11 |
| 12.4. Dilution Parallelism | 12 |
| 12.5. Spike Recovery | 12 |
| 12.6. Stability | 12 |
| 12.7. Expected serum values | 12 |
| 12.8. Standard Calibration | 12 |
| 13. Human IL-10 ELISA references | 13 |
| 14. Assay Summary | 14 |

Human IL-10 High Sensitivity ELISA KIT

1. Intended use

The Human IL-10 High Sensitivity ELISA kit is a solid phase sandwich ELISA for the *in-vitro* qualitative and quantitative determination of IL-10 in supernatants, buffered solutions or serum and plasma samples. This assay will recognise both natural and recombinant human IL-10.

This kit has been configured for research use only. Not suitable for use in therapeutic procedures.

2. Introduction

2.1. Principle of the method

A capture Antibody highly specific for IL-10 has been coated to the wells of the microtiter strip plate provided during manufacture. Binding of IL-10 in samples and known standards to the capture antibodies is completed and then any excess unbound analyte is removed.

During the next incubation period the binding of the Biotinylated anti-IL-10 secondary antibody to the analyte occurs. Any excess unbound secondary antibody is then removed.

The HRP conjugate solution is then added to every well including the zero wells, following incubation excess conjugate is removed by careful washing. The first amplification step is performed by adding the Biotine-Tyramine reagent. Under the action of HRP, a biotine polymerisation reaction occurs in the region of the HRP linked to the detection antibody. After washing the second amplification step is performed and the polymerised biotine is revealed by a new streptavidin-HRP step.

Finally after washing, a chromogen substrate is added to the wells resulting in the progressive development of a blue coloured complex with the conjugate. The colour development is then stopped by the addition of acid turning the resultant final product yellow. The intensity of the produced coloured complex is directly proportional to the concentration of IL-10 present in the samples and standards.

The absorbance of the colour complex is then measured and the generated OD values for each standard are plotted against expected concentration forming a standard curve. This standard curve can then be used to accurately determine the concentration of IL-10 in any sample tested.

3. Reagents provided and reconstitution

| Reagents (Store@2-8°C) | Quantity 1x96-well kit | Reconstitution |
|--|---------------------------|---|
| Anti-IL-10 Coated Plate | 1 | Ready to use (96-well strip pre-coated plate) |
| Plastic plate covers | 2 | n/a |
| IL-10 Standard: 50 pg/ml | 2 | Reconstitute as directed on the vial (see Assay preparation, section 8) |
| Standard Diluent | 1 (15ml) | 10x concentrate, dilute in distilled water (see Assay preparation, section 8) |
| Biotinylated Anti-IL-10 | 1 (0.4ml) | Dilute in Biotinylated Antibody Diluent (see Assay preparation, section 8) |
| Biotinylated Antibody Diluent | 1 (7ml) | Ready to use |
| Streptavidin-HRP | 2 (5µl) | Add 0.5ml of Streptavidin-HRP Diluent prior to use (see Assay preparation, section 8) |
| Streptavidin-HRP Diluent | 1 (23ml) | Ready to use |
| Amplifier | 1 (200 µl) | Dilute in Amplification Buffer Note: Reagent contains ethyl alcohol |
| Amplification Diluent | 1 (15 ml) | Ready to use |
| Wash Buffer | 1 (10ml) | 200x concentrate dilute in distilled water (see Assay preparation, section 8) |
| TMB Substrate | 1 (11ml) | Ready to use |
| H ₂ SO ₄ Stop Reagent | 1 (11ml) | Ready to use |

4. Materials required but not provided

- Microtiter plate reader fitted with appropriate filters (450 nm required with optional 620 nm reference filter)
- Microtiter plate washer or wash bottle
- 10, 50, 100, 200 and 1,000µl adjustable single channel micropipettes with disposable tips
- 50-300µl multi-channel micropipette with disposable tips
- Multichannel micropipette reagent reservoirs
- Distilled water
- Vortex mixer
- Orbital shaker
- Miscellaneous laboratory plastic and/or glass, if possible sterile

5. Storage Instructions

Store kit reagents between 2 and 8°C. Immediately after use remaining reagents should be returned to cold storage (2-8°C). Expiry of the kit and reagents is stated on box front labels. The expiry of the kit components can only be guaranteed if the components are stored properly, and if, in case of repeated use of one component, the reagent is not contaminated by the first handling.

Wash Buffer 1X: Once prepared, store at 2-8°C for up to 1 week.

Standard Diluent Buffer 1X: Once prepared, store at 2-8°C for up to 1 week.

Reconstituted Standard: Once prepared use immediately and do not store.

Diluted Biotinylated Anti-IL-10: Once prepared use immediately and do not store.

Diluted Streptavidin-HRP: Once prepared use immediately and do not store.

Diluted Amplifier: Once prepared use immediately and do not store.

6. Specimen collection, processing & storage

Cell culture supernatants, human serum, plasma or other biological samples will be suitable for use in the assay. Remove serum from the clot or red cells, respectively, as soon as possible after clotting and separation.

Cell culture supernatants: Remove particulates and aggregates by spinning at approximately 1000 x g for 10 min.

Serum: Use pyrogen/endotoxin free collecting tubes. Serum should be removed rapidly and carefully from the red cells after clotting. Following clotting, centrifuge at approximately 1000 x g for 10 min and remove serum.

Plasma: EDTA, citrate and heparin plasma can be assayed. Spin samples at 1000 x g for 30 min to remove particulates. Harvest plasma.

Storage: If not analysed shortly after collection, samples should be aliquoted (250-500µl) to avoid repeated freeze-thaw cycles and stored frozen at -70°C. Avoid multiple freeze-thaw cycles of frozen specimens.

Recommendation: Do not thaw by heating at 37°C or 56°C. Thaw at room temperature and make sure that sample is completely thawed and homogeneous before use. When possible avoid use of badly haemolysed or lipemic sera. If large amounts of particles are present these should be removed prior to use by centrifugation or filtration.

7. Safety & precautions for use

- Handling of reagents, serum or plasma specimens should be in accordance with local safety procedures, e.g. CDC/NIH Health manual: "Biosafety in Microbiological and Biomedical Laboratories" 1984.
- Laboratory gloves should be worn at all times.
- Avoid any skin contact with H₂SO₄ and TMB. In case of contact, wash thoroughly with water.
- Do not eat, drink, smoke or apply cosmetics where kit reagents are used.
- Do not pipette by mouth.
- When not in use, kit components should be stored refrigerated as indicated on vials or bottles labels.
- All reagents should be warmed to room temperature before use. Lyophilized standards should be discarded after use.
- Once the desired number of strips has been removed, immediately reseal the bag to protect the remaining strips from deterioration.
- Cover or cap all reagents when not in use.
- Do not mix or interchange reagents between different lots.
- Do not use reagents beyond the expiration date of the kit.
- Use a clean disposable plastic pipette tip for each reagent, standard, or specimen addition in order to avoid cross contamination, for the dispensing of H₂SO₄ and TMB Substrate solutions, avoid pipettes with metal parts.
- Use a clean plastic container to prepare the washing solution.
- Thoroughly mix the reagents and samples before use by agitation or swirling.
- All residual washing liquid must be drained from the wells by efficient aspiration or by decantation followed by tapping the plate forcefully on absorbent paper. Never insert absorbent paper directly into the wells.
- The TMB Substrate solution is light sensitive. Avoid prolonged exposure to light. Also, avoid contact of the TMB Substrate solution with metal to prevent colour development. Warning TMB Substrate is toxic avoid direct contact with hands. Dispose off properly.
- If a dark blue colour develops within a few minutes after preparation, this indicates that the TMB Substrate solution has been contaminated and must be discarded. Read absorbances within 1 hour after completion of the assay.
- When pipetting reagents, maintain a consistent order of addition from well-to-well. This will ensure equal incubation times for all wells.
- Follow incubation times described in the assay procedure.
- Dispense the TMB Substrate within 15 min of the washing of the microtiter plate.

8. Assay Preparation

Bring all reagents to room temperature before use

8.1. Assay Design

Determine the number of microwell strips required to test the desired number of samples plus appropriate number of wells needed for running zeros and standards. Each sample, standard and zero should be tested **in duplicate**. Remove sufficient microwell strips for testing from the pouch immediately prior to use. Return any wells not required for this assay with desiccant to the pouch. Seal tightly and return to 2-8°C storage.

Example plate layout (example shown for a 6 point standard curve)

| | Standards | | Sample Wells | | | | | | | | | |
|---|-----------|------|--------------|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A | 50 | 50 | | | | | | | | | | |
| B | 25 | 25 | | | | | | | | | | |
| C | 12.5 | 12.5 | | | | | | | | | | |
| D | 6.25 | 6.25 | | | | | | | | | | |
| E | 3.12 | 3.12 | | | | | | | | | | |
| F | 1.56 | 1.56 | | | | | | | | | | |
| G | zero | zero | | | | | | | | | | |
| H | | | | | | | | | | | | |

All remaining empty wells can be used to test samples in duplicate

8.2. Preparation of Wash Buffer

If crystals have formed in the concentrate Wash Buffer, warm it gently until complete dissolution.

Dilute the (200X) concentrate Wash Buffer 200 fold with distilled water to give a 1X working solution. Pour entire contents (10 ml) of the concentrate Wash Buffer into a clean 2,000 ml graduated cylinder. Bring final volume to 2,000 ml with glass-distilled or deionized water. Mix gently to avoid foaming. Transfer to a clean wash bottle and store at 2°-25°C.

8.3. Preparation of Standard Diluent Buffer 1X

If crystals have formed in the concentrate Standard Diluent, warm it gently until complete dissolution.

Dilute the (10X) concentrate Standard Diluent 10 fold with distilled water to give a 1X working solution. Pour entire contents of the concentrate Standard Diluent into a clean appropriate graduated cylinder. Bring to final volume with glass-distilled or deionized water. Transfer to a clean wash bottle and store at 2°-25°C. Please see example volumes below:

| Standard Diluent concentrate (ml) | Distilled water (ml) |
|-----------------------------------|----------------------|
| 15 | 135 |
| 25 | 225 |

8.4. Preparation of Standard

Standard vials must be reconstituted with the volume of Standard Diluent Buffer 1X shown on the vial immediately prior to use. This reconstitution gives a stock solution of 50 pg/ml of IL-10. Mix the reconstituted standard gently by inversion only. Serial dilutions of the standard are made directly in the assay plate to provide the concentration range from 50 to 1.56 pg/ml. A fresh standard curve should be produced for each new assay.

- Immediately after reconstitution add 200µl of the reconstituted standard to wells A1 and A2, which provides the highest concentration standard at 50 pg/ml.
- Add 100µl of Standard Diluent Buffer 1X to the remaining standard wells B1 and B2 to F1 and F2.
- Transfer 100µl from wells A1 and A2 to B1 and B2. Mix the well contents by repeated aspirations and ejections taking care not to scratch the inner surface of the wells.
- Continue this 1:1 dilution using 100µl from wells B1 and B2 through to wells F1 and F2 providing a serial diluted standard curve ranging from 50 pg/ml to 1.56 pg/ml.
- Discard 100µl from the final wells of the standard curve (F1 and F2).

Alternatively these dilutions can be performed in separate clean tubes and immediately transferred into the relevant wells.

8.5. Preparation of Samples

Normal sera and plasmas may be applied undiluted. Nevertheless, sera or plasmas from patients with various pathologies may be applied undiluted and diluted (to prevent too high concentrations). As IL-10 concentrations may vary considerably in cell supernatant samples, it is not easy to recommend a dilution factor. For example, unknown cell supernatant samples may also be tested undiluted and diluted.

8.6. Preparation of Biotinylated Anti-IL-10

It is recommended this reagent is prepared immediately before use. Dilute the Biotinylated Anti-IL-10 with the Biotinylated Antibody Diluent in an appropriate clean glass vial using volumes appropriate to the number of required wells. Please see example volumes below:

| Number of wells required | Biotinylated Antibody (µl) | Biotinylated Antibody Diluent (µl) |
|--------------------------|----------------------------|------------------------------------|
| 16 | 40 | 1060 |
| 24 | 60 | 1590 |
| 32 | 80 | 2120 |
| 48 | 120 | 3180 |
| 96 | 240 | 6360 |

8.7. Preparation of Streptavidin-HRP solutions 1 and 2

It is recommended to centrifuge vial for a few seconds in a microcentrifuge to collect all the volume at the bottom.

Dilute the 5 μ l vial with 0.5ml of Streptavidin-HRP Diluent **immediately before use**. This pre-dilution will be used for step 8 and step 14. Do not keep this diluted vial for future experiments. Further dilute the HRP solution to volumes appropriate for the number of required wells in a clean glass vial. Please see example volumes below:

| Number of wells required | Streptavidin-HRP solution 1 (Step 8) | | Streptavidin-HRP solution 2 (Step 14) | |
|--------------------------|--------------------------------------|-------------------------------|---------------------------------------|-------------------------------|
| | Streptavidin-HRP (μ l) | Streptavidin-HRP Diluent (ml) | Streptavidin-HRP (μ l) | Streptavidin-HRP Diluent (ml) |
| 16 | 10 | 1.990 | 32 | 1.900 |
| 32 | 20 | 3.980 | 64 | 3.800 |
| 48 | 27 | 5.373 | 91 | 5.400 |
| 96 | 55 | 10.945 | 182 | 10.800 |

8.8. Preparation of Amplifier

It is recommended this reagent is prepared immediately before use. Dilute the Amplifier with the Amplification Diluent in an appropriate clean glass vial using volumes appropriate to the number of required wells. Please see example volumes below:

| Number of wells required | Amplifier (μ l) | Amplification Diluent (ml) |
|--------------------------|----------------------|----------------------------|
| 16 | 20 | 1.980 |
| 32 | 40 | 3.960 |
| 48 | 60 | 5.940 |
| 96 | 120 | 11.880 |

9. Method

We strongly recommend that every vial is mixed thoroughly without foaming prior to use.

Prepare all reagents as shown in section 8.

Note: final preparation of **Biotinylated Antibody** (section 8.6), **Streptavidin-HRP** (section 8.7) and **Amplifier** (section 8.8) should occur immediately before use.

| Assay Step | | Details |
|--|------------|---|
| 1. | Addition | Prepare standard curve as shown in section 8.4 above and add in duplicate to appropriate wells |
| 2. | Addition | Add 100µl of each Sample and zero (Standard Diluent Buffer 1X) in duplicate to appropriate number of wells |
| 3. | Incubation | Cover with a plastic plate cover and incubate at room temperature (18 to 25°C) with a slow shaking for 1 hour |
| 4. | Wash | Remove the cover and wash the plate as follows: a) Aspirate the liquid from each well b) Dispense 0.3 ml of 1x Wash Buffer into each well c) Aspirate the contents of each well d) Repeat step b and c another two times |
| 5. | Addition | Add 50µl of diluted Biotinylated Anti-IL-10 to all wells |
| 6. | Incubation | Cover with a plastic plate cover and incubate at room temperature (18 to 25°C) with a slow shaking for 1 hour |
| 7. | Wash | Repeat wash step 4. |
| 8. | Addition | Add 100µl of diluted Streptavidin-HRP solution 1 into all wells |
| 9. | Incubation | Cover with a plastic plate cover and incubate at room temperature (18 to 25°C) with a slow shaking for 20 min |
| 10. | Wash | Repeat wash step 4. |
| 11. | Addition | Add 100µl of diluted Amplifier to all wells |
| 12. | Incubation | Cover with a plastic plate cover and incubate at room temperature (18 to 25°C) with slow shaking for 15 min |
| 13. | Wash | Repeat wash step 4. |
| 14. | Addition | Add 100µl of diluted Streptavidin-HRP solution 2 into all wells |
| 15. | Incubation | Cover with a plastic plate cover and incubate at room temperature (18 to 25°C) with slow shaking for 20 min |
| 16. | Wash | Repeat wash step 4. |
| 17. | Addition | Add 100µl of ready-to-use TMB Substrate solution into all wells |
| 18. | Incubation | Incubate in the dark for 10-20 minutes* at room temperature. Avoid direct exposure to light by wrapping the plate in aluminium foil. |
| 19. | Addition | Add 100µl of H₂SO₄ Stop Reagent into all wells |
| <p>Read the absorbance value of each well (immediately after step 19.) on a spectrophotometer using 450 nm as the primary wavelength and optionally 620 nm as the reference wave length (610 nm to 650 nm is acceptable).</p> | | |

**Incubation time of the TMB Substrate is usually determined by the ELISA reader performance. Many ELISA readers only record absorbance up to 2.0 O.D. Therefore the colour development within individual microwells must be observed by the analyst, and the substrate reaction stopped before positive wells are no longer within recordable range.*

10. Data Analysis

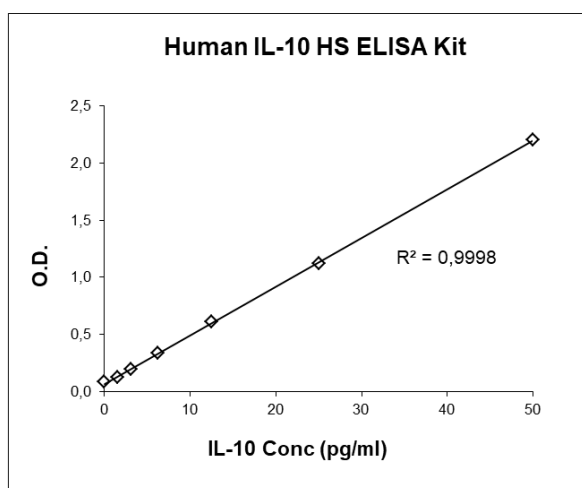
Calculate the average absorbance values for each set of duplicate standards and samples. Ideally duplicates should be within 20% of the mean.

Generate a linear standard curve by plotting the average absorbance of each standard on the vertical axis versus the corresponding IL-10 standard concentration on the horizontal axis.

The amount of IL-10 in each sample is determined by extrapolating OD values against IL-10 standard concentrations using the standard curve.

Example IL-10 Standard curve

| Standard | IL-10 Conc (pg/ml) | OD (450nm) mean | CV (%) |
|----------|--------------------|-----------------|--------|
| 1 | 50 | 2.206 | 1.6 |
| 2 | 25 | 1.118 | 4.5 |
| 3 | 12.5 | 0.611 | 0.9 |
| 4 | 6.25 | 0.337 | 6.7 |
| 5 | 3.12 | 0.193 | 2.9 |
| 6 | 1.56 | 0.122 | 0.6 |
| zero | 0 | 0.083 | - |



Note: curve shown above should not be used to determine results. Every laboratory must produce a standard curve for each set of microwell strips assayed.

11. Assay limitations

Do not extrapolate the standard curve beyond the maximum standard curve point. The dose-response is non-linear in this region and good accuracy is difficult to obtain. Concentrated samples above the maximum standard concentration must be diluted with Standard Diluent Buffer or with your own sample buffer to produce an OD value within the range of the standard curve. Following analysis of such samples always multiply results by the appropriate dilution factor to produce actual final concentration.

The influence of various drugs on end results has not been investigated. Bacterial or fungal contamination and laboratory cross-contamination may also cause irregular results.

Improper or insufficient washing at any stage of the procedure will result in either false positive or false negative results. Completely empty wells before dispensing fresh Wash Buffer, fill with Wash Buffer as indicated for each wash cycle and do not allow wells to sit uncovered or dry for extended periods.

Disposable pipette tips, flasks or glassware are preferred, reusable glassware must be washed and thoroughly rinsed of all detergents before use.

As with most biological assays conditions may vary from assay to assay therefore **a fresh standard curve must be prepared and run for every assay.**

12. Performance Characteristics

12.1. Sensitivity

The sensitivity or minimum detectable dose of IL-10 using this Human IL-10 High Sensitivity ELISA kit was found to be **0.98 pg/ml**. This was determined by adding 3 standard deviations to the mean OD obtained when the zero standard was assayed 38 times.

12.2. Specificity

The assay recognizes both natural and recombinant human IL-10. To define the specificity of this ELISA several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested: IL-1 α , IL-1 β , IL-2, IL-5, IL-6, IL-8, IL-12, TNF α , IFN γ and mL-10.

12.3. Precision

Intra-assay

Reproducibility within the assay was evaluated in three independent experiments. Each assay was carried out with 6 replicates (3 duplicates) of samples containing different concentrations of IL-10: 2 in human pooled serum, 2 in culture media and 2 in standard diluent. 2 standard curves were run on each plate. Data below show the mean IL-10 concentration and the coefficient of variation for each sample.

The calculated overall coefficient of variation was 4.3%.

| Session | Sample | Mean IL-10 pg/ml | SD | CV% |
|-----------|----------|---------------------|------|-------|
| Session 1 | Sample 1 | 22.78 | 0.62 | 2.73 |
| | Sample 2 | 9.31 | 0.21 | 2.29 |
| | Sample 3 | 22.76 | 1.51 | 6.61 |
| | Sample 4 | 9.27 | 1.05 | 11.36 |
| | Sample 5 | 20.84 | 0.26 | 1.24 |
| | Sample 6 | 8.47 | 0.21 | 2.44 |
| Session 2 | Sample 1 | 26.21 | 0.68 | 2.60 |
| | Sample 2 | 10.81 | 0.50 | 4.61 |
| | Sample 3 | 24.64 | 1.49 | 6.06 |
| | Sample 4 | 8.67 | 0.54 | 6.25 |
| | Sample 5 | 24.46 | 1.03 | 4.22 |
| | Sample 6 | 9.22 | 0.39 | 4.21 |
| Session 3 | Sample 1 | 21.5 | 1.39 | 6.45 |
| | Sample 2 | 8.18 | 0.17 | 2.06 |
| | Sample 3 | 19.31 | 0.27 | 1.38 |
| | Sample 4 | 8.19 | 0.17 | 2.09 |
| | Sample 5 | 20.27 | 1.29 | 6.34 |
| | Sample 6 | 8.04 | 0.28 | 3.44 |

Inter-assay

Assay to assay reproducibility within one laboratory was evaluated in three independent experiments by two technicians. Each assay was carried out with 6 replicates (3 duplicates) of samples containing different concentrations of IL-10: 2 in human pooled serum, 2 in culture media and 2 in standard diluent. Data below show the mean IL-10 concentration and the coefficient of variation for each sample.

The calculated overall coefficient of variation was 6.3%.

| | <i>Sample 1</i> | <i>Sample 2</i> | <i>Sample 3</i> | <i>Sample 4</i> | <i>Sample 5</i> | <i>Sample 6</i> |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Mean IL-10 pg/ml | 24 | 9 | 24 | 9 | 23 | 9 |
| SD | 1 | 1 | 3 | 0 | 2 | 0 |
| CV% | 4.0 | 8.5 | 10.9 | 3.8 | 6.6 | 3.8 |

12.4. Dilution Parallelism

Two spiked human serum samples with different levels of IL-10 were analysed at different serial two fold dilutions (1:2 to 1:16) with two replicates each.

Recoveries ranged from 90 to 117% with an overall **mean recovery of 101%**.

12.5. Spike Recovery

The spike recovery was evaluated by spiking 2 concentrations of IL-10 in human serum and culture media in 3 separate experiments.

Recoveries ranged from 70 to 101% with an overall **mean recovery of 85%**.

12.6. Stability

Storage Stability

Aliquots of spiked serum and spiked medium were stored at -20°C , $+2-8^{\circ}\text{C}$, room temperature (RT) and at 37°C and the IL-10 level determined after 24h. There was no significant loss of IL-10 reactivity during storage at RT, and $2-8^{\circ}\text{C}$, however we observe 70% loss of reactivity when stored at 37° if spiked in serum and 50% loss if spiked into culture media.

Freeze-thaw Stability

Aliquots of spiked serum and spiked medium were stored frozen at -20°C and thawed up to 5 times and the IL-10 level was determined. There was no significant loss of IL-10 reactivity after 5 cycles of freezing and thawing.

12.7. Expected serum values

A panel of 20 sera and 20 plasmas coming from apparently healthy blood donors was tested for IL-10. All were below the detection level < 0.98 pg/ml.

12.8. Standard Calibration

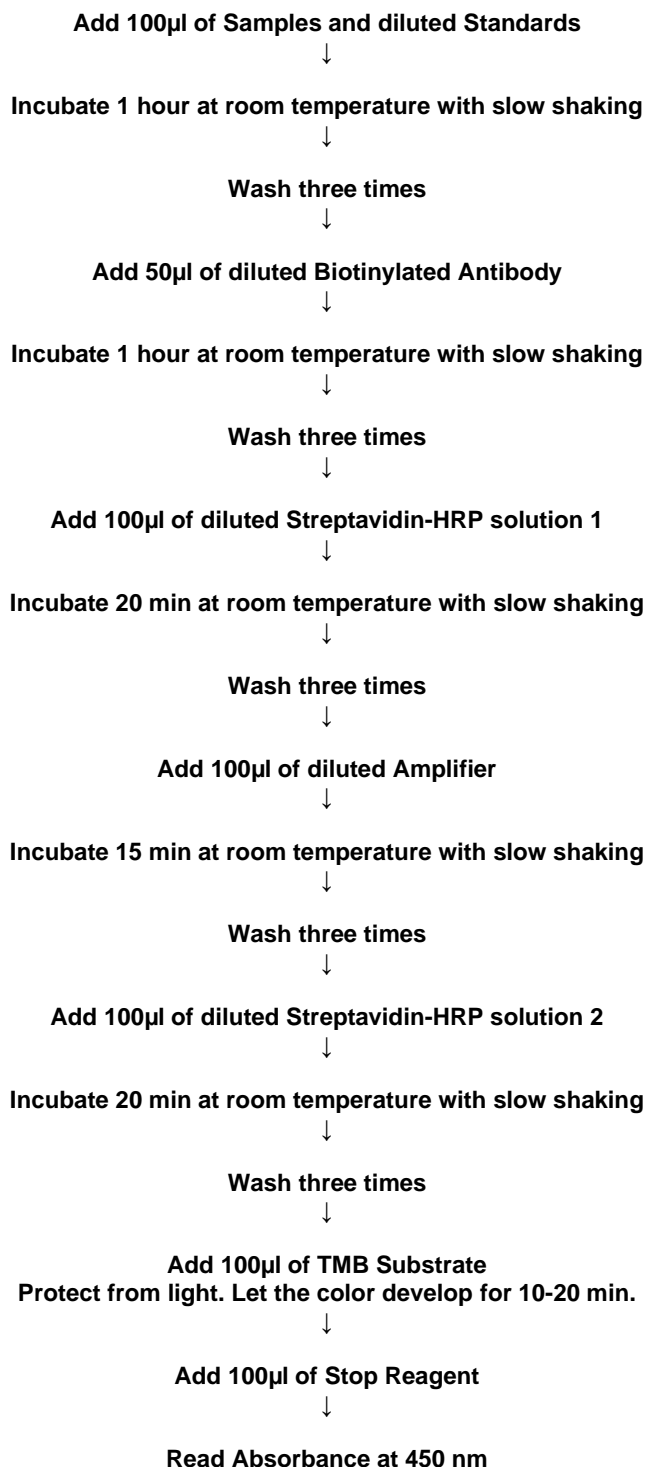
This immunoassay is calibrated against the International Reference Standard NIBSC 93/722. NIBSC 93/722 is quantitated in International Units (IU). 1IU corresponding to 540pg IL-10.

13. Human IL-10 ELISA references













1. Morandi, F. et al., J Immunol Res., 2015: 718975
2. Piccoli, L. et al., Clin Dev Immunol., 2012:
483935

14. Assay Summary

Total procedure length : 3h00



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

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

Generic table, not all symbols are present in the product

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

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

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

The labelling of hazardous substances is according to European directive.

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



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