

Odczynniki do testów
ELISpot i ELISA
firmy Sanquin (Holandia)

Wyposażenie do testów ELISpot
firmy A.EL.VIS GmbH (Niemcy)

K A T A L O G

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Wyłączny przedstawiciel na terenie Polski:

immunologia.BIZ

ELISpot, ELISA, cytometria przepływowa:
Odczynniki i wyposażenie

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cytokines, granzymes and related proteins

The cytokines consist of a group of hormone-like proteins that are produced by a variety of cell types. Most cytokines are involved in the maintenance of cell viability, induction of proliferation, maturation of hematopoietic cells, regulation of immunity, inflammation, cellular activities and embryonic development. The quantification of human cytokines is increasingly performed in diagnostics and research. Originally, cytokines could only be detected by their biological activities, but later immunoassays were developed, based mostly on specific monoclonal antibodies. Nowadays ready-to-use cytokine ELISA and ELISPOT kits based on specific antibodies are widely used.

kits and reagents for ELISA

Under the trade name PeliKine™, Sanquin offers a broad range of ELISA kits and reagents for determination of human cytokine levels. Sanquin makes every effort to develop and manufacture high-quality, reliable reagents, to meet the requirements of customers, and to comply with strict levels of specificity and standardisation.

The antibodies included in the ELISA kits from Sanquin have been carefully selected for reactivity and specificity. To ascertain the highest possible level of specificity, each ELISA kit has been meticulously tested for (cross)reactivity with a wide range of cytokines. The ELISA kits combine high sensitivity with a wide concentration range. By using a polymer of HRP conjugated to streptavidin (Poly-HRP, proprietary technology Sanquin) as well as the application of highly reactive antibodies, assay sensitivities of 0.2 pg/ml are achieved. This corresponds to the background signal plus 3 SD. For each kit, the actual assay range is represented in the form of a quantitative standard curve.

Linearity of dose-response curves is ensured, since the tests are run in Sanquin's 'High-Performance'-ELISA buffer (HPE buffer, proprietary technology). Moreover, optimised combinations of antibodies have been selected and the assay performance is validated by spiking, diluting and recovery experiments.

The reliability of several cytokine ELISA kits has been validated by testing for any influence of rheumatoid factors in spiking and recovery experiments.

As an officially recognised International Laboratory for Biological Standards, Sanquin is experienced in reliable standardisation.

ELISA product range

● PeliKine™ human cytokine ELISA kits

Each of these ready-to-use PeliKine™ ELISA kits contains a pre-coated microwell plate (96 tests) and all reagents and solutions required for quantification of the particular human cytokine.

Optimal experimental protocols are included in each kit, so as to allow direct application using body fluids (serum, plasma, urine), as well as cell culture supernatants.

● PeliKine™-compact™ human cytokine ELISA kits

The PeliKine™-compact™ kits contain all essential reagents to prepare three ELISA plates (288 tests). Compared with kits containing pre-coated plates, the PeliKine™-compact™ kits offer substantial savings. One advantage as compared to setting up your own test, is that these kits include a ready-made protocol which guarantees a high-quality assay for body fluids (serum, plasma, urine), and for cell culture supernatants.

● PeliPair™ reagent sets for cytokine ELISA

The PeliPair™ reagent sets contain coating antibody and biotinylated detection antibody as well as standard to prepare nineteen ELISA-plates. Compared to the PeliKine™-compact™ kit, these sets contain the same antibodies and standards, in the same concentrations, but in 5 ampuls. For the quantification of cytokines in cell culture supernatants this kit is recommended.

kits, reagents and analysers for ELISPOT

The ELISPOT technique is an assay method that has demonstrated its significance in the last few years mainly in the field of anti-viral immunity and tumour-immunology.

A significant advantage compared to the ELISA technique is the increased sensitivity. Where ELISA requires at least 400 cells per well to produce sufficient cytokines to give detectable levels, in contrast in ELISPOT only 1 positive cell per well can be detected resulting in a sensitivity of 1×10^6 positive cells. Not only the high sensitivity, but also the possibility to enumerate cytokine producing T cells at the single cell level, is an enormous advantage.

Cells are incubated overnight with a stimulator in a well coated with a high affinity anti cytokine monoclonal antibody. Secreted cytokine will bind insitu to the coat antibody. Subsequently cells and unbound components are washed away and a biotin labelled anti cytokine antibody is added. Via streptavidin-poly-HRP and a precipitating substrate the presence of the secreted component is visualised as a blue/purple coloured spot.

Nowadays analysing spots has become a lot more accurate and, in particular, a lot more uncomplicated and faster, thanks to the use of automated readers. Sanquin Reagents is the exclusive distributor of the A.EL.VIS (Automated Elispot Video analysis System) reader. The system consists of a reader, a computer and specially developed, user-friendly software. The entire process of measuring, analysing and printing is done in less than 10 minutes per plate.

ELISPOT product range

- **PeliSPOT™ human ELISPOT kits**

The PeliSPOT™ kits contain all reagents to prepare 375 ELISPOT tests. The kits include a ready-made protocol which guarantees a high-quality and easy to perform assay.

- **PeliSPOT™ Pairs for human and mouse ELISPOT assays**

The PeliSPOT™ Pairs contain pre-diluted coating and detection antibodies to prepare three ELISPOT plates. The Pairs include a ready-made protocol which also describes the use of our supplementary reagents.

- **PeliSPOT™ Supplementary reagents**

Reagents to combine with our PeliSPOT™ Pairs or to enhance the performance and sensitivity of any commercial or home-brewed ELISPOT assay.

A.EL.VIS ELISPOT analysers

- **Eli.Expert**

4 plate high throughput reader capable of measuring all types of microtiter plates. Suitable for Expert labs running high numbers of plates.

- **Eli.Scan**

High-quality CCD scan unit.

Highly recommended for research labs because of its low-price, simplicity, robustness and ease of maintenance.

- **Counting service**

The ELISPOT counting service at Sanquin is initiated to support customers who start the ELISPOT assay or when the technique is only required incidentally.

overview of ELISPOT products

<i>cytokine</i>	<i>order number</i>	<i>p-code</i>
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PeliSPOT™ cytokine, Granzyme kits (3 plates)

Human Granzyme B	M2536	P72
Human IFN-gamma	M2533	P56
Human IL-4	M2514	P56

PeliSPOT™ pairs (375 tests)

Human

Human Perforin	M9437	P25
Human IFN-gamma	M9433	P25
Human IL-1 beta	M9431	P25
Human IL-2	M9402	P25
Human IL-4	M9414	P25
Human IL-5	M9415	P25
Human IL-10	M9410	P25
Human IL-13	M9413	P25

Mouse

Mouse IL-5	M9515	P25
Mouse IFN-gamma	M9533	P25

PeliSPOT™ supplementary reagents

PeliSPOT™ buffer 50 ml	M2540	P7
Streptavidin poly-HRP 0.1 ml	M2051	P10
Streptavidin poly-HRP 1 ml	M2032	P45
TMB for PeliSPOT™ 18 ml	M2521	P5

AELVIS ELISPOT analyses

Eli.Expert	M7200	4 stage reader for all plates
Eli.Scan	M7202	Eli.Scan Foil Reader

AELVIS supplementary products

Eli-Foil	M7206	Special foils for Millipore plates and 96 well puncher
Eli-Punch	M7205	96 well puncher for Millipore plate
Eli-Analyse	M7210	software to analyse data (not to acquire data)

PeliKine™ human cytokine ELISA kits, 96 tests

The PeliKine™ human cytokine ELISA kits are designed for sensitive measurement of cytokines in various matrices. The use of pre-coated microwell plates (8-well strips) ensures fast and reproducible assay results. Each PeliKine™ human cytokine ELISA kit provides all components to perform 96 tests. Please inquire for availability

order-
number

p-code

package

description

standard curve

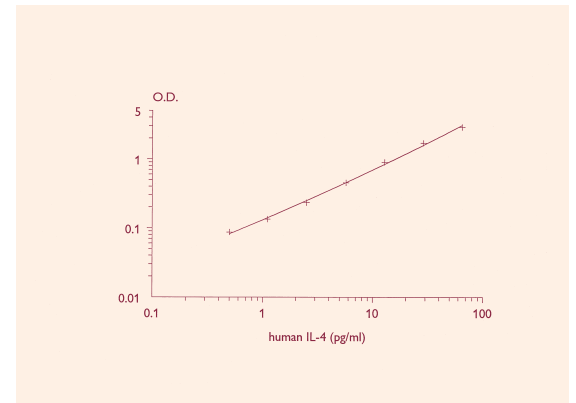
M1904 P37 kit **PeliKine™ human IL-4 ELISA kit**

features:

- ▶ sample type: plasma, serum, urine, culture fluid
- ▶ sensitivity: 0.2 pg/ml
- ▶ standard range: 0.7 - 180 pg/ml
- ▶ reproducibility: intra / inter-assay < 10 %
- ▶ assay time: 4 hours

components:

- ▶ one pre-coated microwell plate with 12 x 8 well strips
- ▶ biotin-conjugated anti-human IL-4 antibodies, streptavidin poly-HRP
- ▶ IL-4 standard
- ▶ wash, dilution, substrate and stop buffers
- ▶ TMB substrate solution



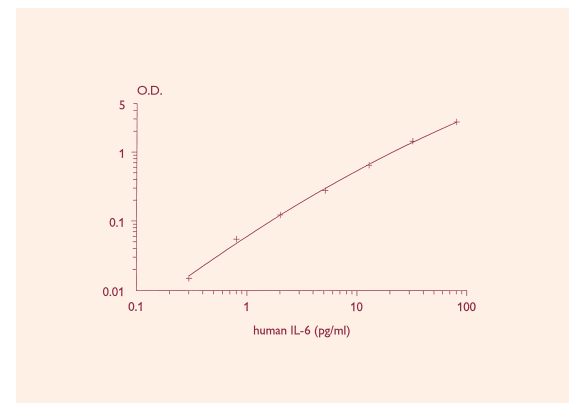
M1906 P37 kit **PeliKine™ human IL-6 ELISA kit**

features:

- ▶ sample type: plasma, serum, urine, culture fluid
- ▶ sensitivity: 0.3 pg/ml
- ▶ standard range: 0.3 - 80 pg/ml
- ▶ reproducibility: intra / inter-assay < 10 %
- ▶ assay time: 4 hours

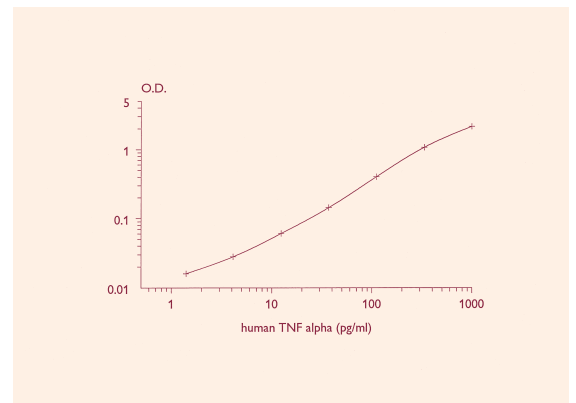
components:

- ▶ one pre-coated microwell plate with 12 x 8 well strips
- ▶ biotin-conjugated anti-human IL-6 antibodies, streptavidin poly-HRP
- ▶ IL-6 standard
- ▶ wash, dilution, substrate and stop buffers
- ▶ TMB substrate solution

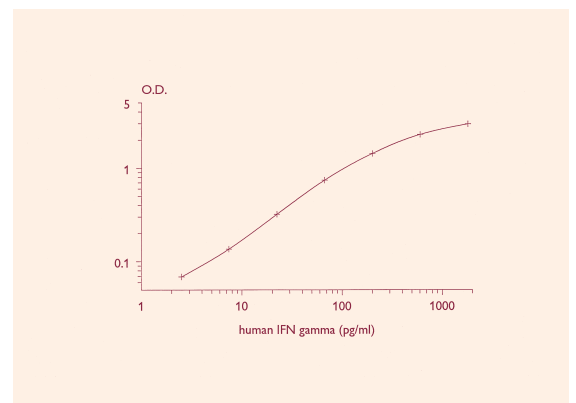


order-number	p-code	package	description
M1920	P37	kit	<p>PeliKine™ human TNF-α ELISA kit</p> <p>features:</p> <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 1 - 1000 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: 4 hours <p>components:</p> <ul style="list-style-type: none"> ▶ one pre-coated microwell plate with 12 x 8 well strips ▶ biotin-conjugated anti-human TNF-α antibodies, streptavidin poly-HRP ▶ TNF-α standard ▶ wash, dilution, substrate and stop buffers ▶ TMB substrate solution

typical standard curve



M1921	P37	kit	<p>PeliKine™ human IFN-γ ELISA kit</p> <p>features:</p> <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 2 - 1150 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: 4 hours <p>components:</p> <ul style="list-style-type: none"> ▶ one pre-coated microwell plate with 12 x 8 well strips ▶ biotin-conjugated anti-human IFN-γ antibodies, streptavidin poly-HRP ▶ IFN-γ standard ▶ wash, dilution, substrate and stop buffers ▶ TMB substrate solution
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PeliKine™-compact™ human cytokine and granzyme ELISA kits, 288 tests

Under the trade name PeliKine™-compact™ Sanquin offers an ever expanding range of cytokine ELISA kits of outstanding quality. The excellent properties at a low price have made these reagents a success with researchers worldwide. The PeliKine™-compact™ kits contain all essential reagents to prepare three ELISA plates (sufficient for 288 tests): coating antibody, blocking reagent, cytokine standard (calibrated against an international standard), High Performance ELISA (HPE) buffer (developed by Sanquin), biotin conjugate and streptavidin poly-HRP.

Compared with kits containing ready-coated microtiter plates, the PeliKine™-compact™ kits offer substantial savings. One advantage as compared to setting up your own test, is that these kits include a ready-made protocol and guarantee a high-quality assay. All you have to do is prepare a few buffer and substrate solutions commonly used in research labs. For even more convenience, a complete set of these buffers and substrates are available as the 'Tool Set for PeliKine™-compact™ ELISA Kits'.

The High-Performance ELISA buffer and streptavidin poly-HRP are also available separately. These reagents will improve the performance of any ELISA.

components:

Each kit contains sufficient reagents for 288 samples (including calibration curves), coating antibody, blocking reagent, human cytokine standard, biotin-conjugated anti-human cytokine antibody, streptavidin poly-HRP conjugate, HPE (High Performance ELISA) dilution buffer and 3 microtiter plates.

order-
number

p-code

package

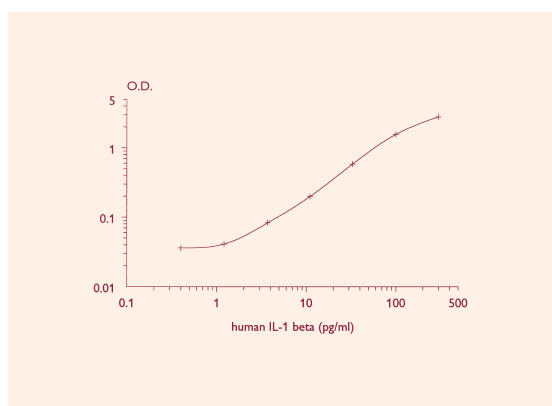
description

typical standard curve

M1934 P33 kit **PeliKine™-compact™ human IL-1 β ELISA kit**

features:

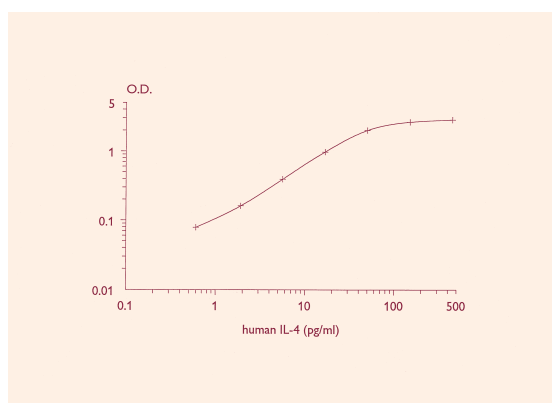
- ▶ sample type: plasma, serum, urine, culture fluid
- ▶ sensitivity: 0.4 pg/ml
- ▶ standard range: 0.4 - 300 pg/ml
- ▶ reproducibility: intra / inter-assay < 10 %
- ▶ assay time: overnight coat, assay completed in 4 hours



M1914 P33 kit **PeliKine™-compact™ human IL-4 ELISA kit**

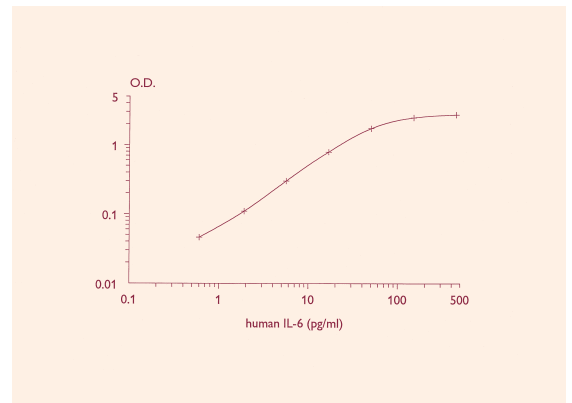
features:

- ▶ sample type: plasma, serum, culture fluid
- ▶ sensitivity: 0.2 pg/ml
- ▶ standard range: 0.6 - 450 pg/ml
- ▶ reproducibility: intra / inter-assay < 10 %
- ▶ assay time: overnight coat, assay completed in 4-hours

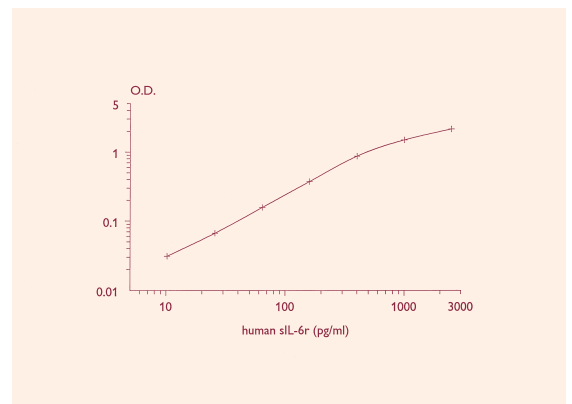


order-number	p-code	packing	description
M1916	P33	kit	PeliKine™-compact™ human IL-6 ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, urine, culture fluid ▶ sensitivity: 0.2 pg/ml ▶ standard range: 0.6 - 450 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours

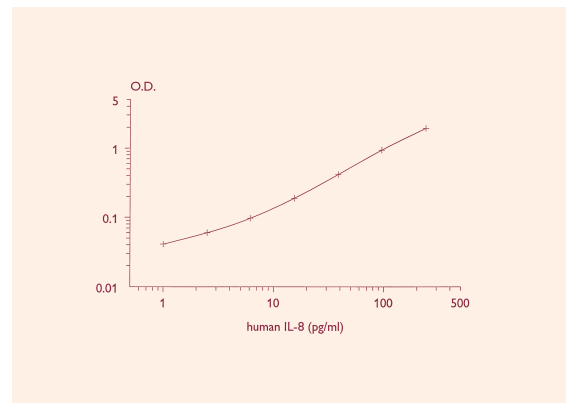
typical standard curve



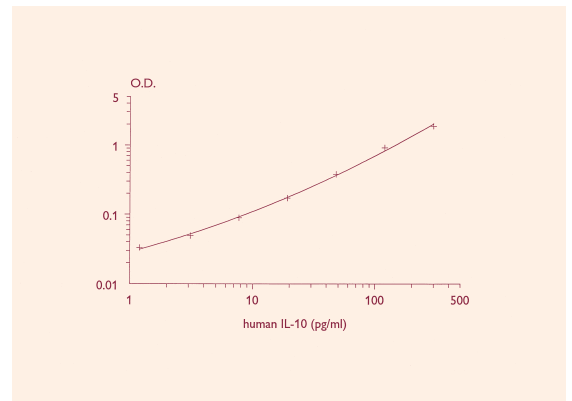
M1926	P33	kit	PeliKine™-compact™ human soluble IL-6 receptor ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 3 pg/ml ▶ standard range: 10 - 2500 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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M1918	P33	kit	PeliKine™-compact™ human IL-8 ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, urine, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 1 - 240 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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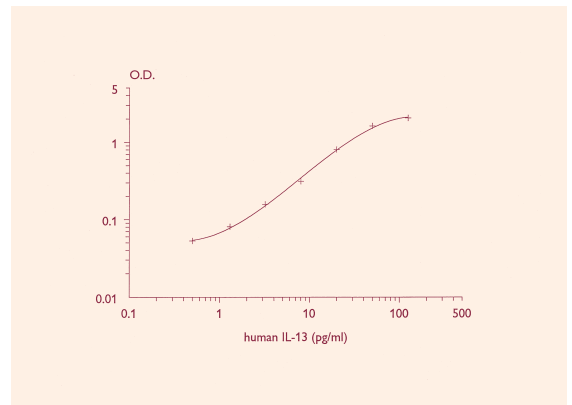


M1910	P33	kit	PeliKine™-compact™ human IL-10 ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 1 - 300 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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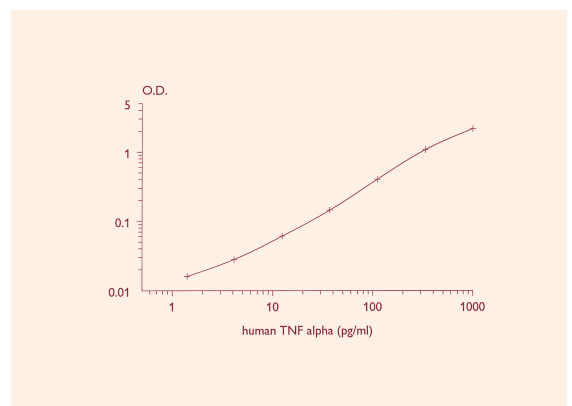


order-number	p-code	package	description
M1913	P33	kit	PeliKine™-compact™ human IL-13 ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 0.5 pg/ml ▶ standard range: 0.5 - 125 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours

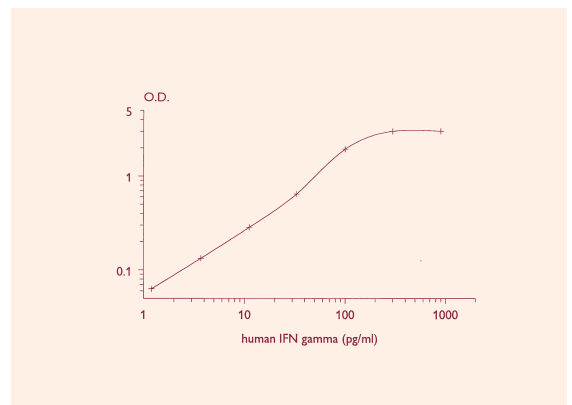
typical standard curve



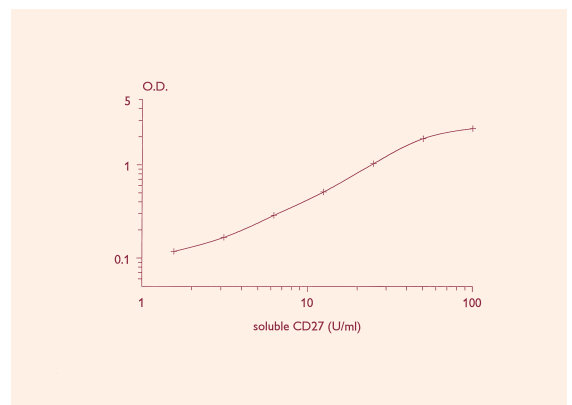
M1923	P33	kit	PeliKine™-compact™ human TNF-α ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, urine, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 1 - 1000 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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M1933	P33	kit	PeliKine™-compact™ human IFN-γ ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, culture fluid ▶ sensitivity: 1 pg/ml ▶ standard range: 2 - 500 pg/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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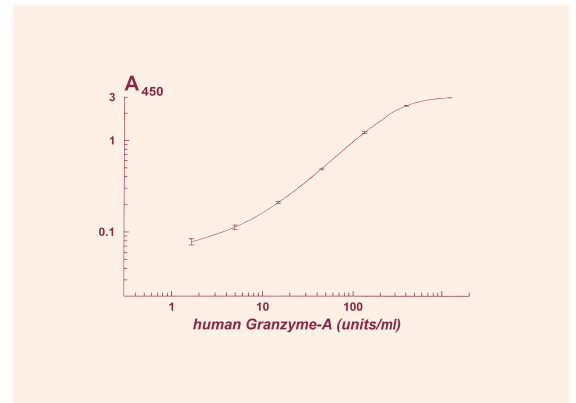


M1960	P33	kit	PeliKine™-compact™ human soluble CD27 ELISA kit features: <ul style="list-style-type: none"> ▶ sample type: plasma, serum, urine, CSF, culture fluid ▶ sensitivity: 1 U/ml ▶ standard range: 1 - 100 U/ml ▶ reproducibility: intra / inter-assay < 10 % ▶ assay time: overnight coat, assay completed in 4 hours
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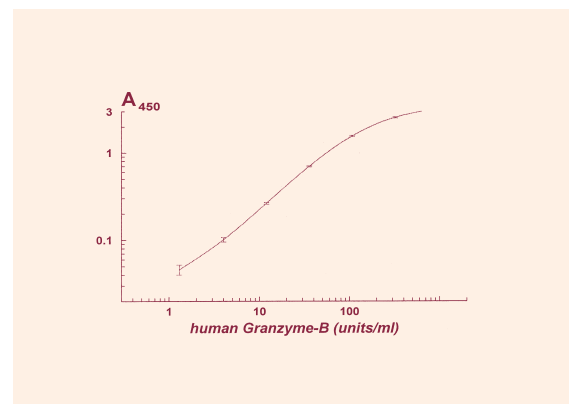


order-number	p-code	package	description
M1935	P55	kit	<p>PeliKine™-compact™ Granzyme A ELISA kit</p> <p>features:</p> <ul style="list-style-type: none"> ▶ sample-type: plasma, serum, supernatant ▶ sensitivity: < 20 U/ml ▶ standard range: 1,6 - 1200 U/ml ▶ assay time: overnight coat, assay completed in 4 hours

typical standard curve



M1936	P55	kit	<p>PeliKine™-compact™ Granzyme B ELISA kit</p> <p>features:</p> <ul style="list-style-type: none"> ▶ sample-type: plasma, serum, supernatant ▶ sensitivity: < 10 U/ml ▶ standard range: 1,3 - 960 U/ml ▶ assay time: overnight coat, assay completed in 4 hours
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PeliPair™ reagent sets, 1824 tests (19 plates)

The PeliPair™ reagent sets contain pre-titered coating antibody and biotinylated detection antibody as well as standard to prepare 19 ELISA-plates. When using streptavidin poly-HRP (M2051, M2032) and HPE dilution buffer the same sensitivities as with the compact kits can be achieved. For quantification of cytokines in serum or plasma we strongly recommend the use of the HPE-dilution buffer (M1940). For even more convenience the Toolset, a complete set of buffers and substrates is available.

components:

Each kit contains sufficient antibodies and standards for 1824 tests (19 plates): 5 vials coating antibody, 5 vials biotinylated detection antibody and 5 or 10 vials of standard (depending on cytokine stability).

Features are based upon the performance of PeliKine™-compact kits and thus depend on the use of blocking reagent, dilution buffers and streptavidin poly-HRP conjugate.

<i>order-number</i>	<i>p-code</i>	<i>package</i>	<i>description</i>
M9334	P52	kit	PeliPair™ human IL-1β ▶ sensitivity: 0.8 pg/ml
M9314	P52	kit	PeliPair™ human IL-4 ▶ sensitivity: 0.2 pg/ml
M9316	P52	kit	PeliPair™ human IL-6 ▶ sensitivity: 0.2 pg/ml
M9326	P52	kit	PeliPair™ human IL-6R ▶ sensitivity: 3 pg/ml
M9318	P52	kit	PeliPair™ human IL-8 ▶ sensitivity: 1 pg/ml
M9310	P52	kit	PeliPair™ human IL-10 ▶ sensitivity: 1 pg/ml
M9313	P52	kit	PeliPair™ human IL-13 ▶ sensitivity: 0.5 pg/ml
M9333	P52	kit	PeliPair™ human IFN-γ ▶ sensitivity: 1 pg/ml

ELISA supplementary reagents

Technology to increase sensitivity and performance:

HPE (High Performance ELISA) dilution buffer ensures linear dose-response curves in different matrices. High sensitivities are achieved by using poly-HRP (a polymer of HRP conjugated to streptavidin).

<i>order-number</i>	<i>p-code</i>	<i>package</i>	<i>description</i>
M2051	P10	0.1 ml	poly-HRP labelled with streptavidin, 1 mg/ml
M2032	P45	1 ml	poly-HRP labelled with streptavidin, 1 mg/ml
M2052	P9	100 ml	casein colloid buffer 5% to dilute poly-HRP
M1940	P18	60 ml	HPE dilution buffer to dilute samples and poly-HRP, eliminating matrix effects
M1980	P13	kit	<p>PeliKine™ Toolset</p> <p>additional reagents for PeliKine™-compact™ kit and PeliPairs; contains components</p> <ul style="list-style-type: none"> ▶ coating buffer (capsules) ▶ PBS (tablets) ▶ wash buffer (20x), stop buffer ▶ TMB substrate solution <p>This kit contains sufficient reagents for one PeliKine™-compact™ kit (288 testsamples)</p>

PeliSPOT™ human ELISPOT kits, 288 tests

The PeliSPOT™ kits contain all reagents to run three ELISPOT plates (plates not included).

The PeliSPOT™ kits offer significant advantages compared to setting up your own test, the kits include all ELISPOT reagents and a ready-made protocol and guarantee instant results and a high-quality assay.

order-number	p-code	package	description
M2536	P72	kit	<p>Human Granzyme B</p> <p>features:</p> <ul style="list-style-type: none"> ▶ Sensitivity: 1 x 10⁶ positive cells ▶ Spot development: blue/purple coloured spot ▶ Assay time: after coating and cell incubation the assay takes 2,5 hours ▶ Recommended plates: Millipore multiscreen PVDF plates ▶ Spot enumeration: Recommended parameter settings for the A.EL.VIS ELISPOT analysers <p>components</p> <ul style="list-style-type: none"> ▶ Coating antibody ▶ PeliSPOT™ blocking / dilution buffer ▶ Biotinylated antibody ▶ Streptavidin-poly-HRP ▶ Substrate ▶ Positive assay control
M2533	P33	kit	<p>Human IFN-gamma</p> <p>features:</p> <ul style="list-style-type: none"> ▶ Sensitivity: 1 x 10⁶ positive cells ▶ Spot development: blue/purple coloured spot ▶ Assay time: after coating and cell incubation the assay takes 2,5 hours ▶ Recommended plates: Millipore multiscreen PVDF plates ▶ Spot enumeration: Recommended parameter settings for the A.EL.VIS ELISPOT analysers <p>components</p> <ul style="list-style-type: none"> ▶ Coating antibody ▶ PeliSPOT™ blocking / dilution buffer ▶ Biotinylated antibody ▶ Streptavidin-poly-HRP ▶ Substrate ▶ Positive assay control
M2514	P33	kit	<p>Human IL-4</p> <p>features:</p> <ul style="list-style-type: none"> ▶ Sensitivity: 1 x 10⁶ positive cells ▶ Spot development: blue/purple coloured spot ▶ Assay time: after coating and cell incubation the assay takes 2,5 hours ▶ Recommended plates: Millipore multiscreen PVDF plates ▶ Spot enumeration: Recommended parameter settings for the A.EL.VIS ELISPOT analysers <p>components</p> <ul style="list-style-type: none"> ▶ Coating antibody ▶ PeliSPOT™ blocking / dilution buffer ▶ Biotinylated antibody ▶ Streptavidin-poly-HRP ▶ Substrate ▶ Positive assay control

PeliSPOT™ Pairs for human and mouse ELISPOT assays, 375 tests

The PeliSPOT™ Pairs contain pre-diluted coating and detection antibodies to prepare 375 ELISPOT tests.

The PeliSPOT™ Pairs offer substantial savings compared to the PeliSPOT™ kits. One advantage as compared to setting up your own test, is that these Pairs include a ready-made protocol and guarantee a high-quality assay. For even more convenience a range of PeliSPOT™ Supplementary reagents is available. Recommended plates are the Millipore multiscreen PVDF plates

Components:

Pre-diluted coating antibody, pre-diluted biotinylated antibody ready-made protocol.

Each kit contains sufficient antibodies for 375 tests.

Recommended parameter settings for the A.EL.VIS ELISPOT analysers

<i>order-number</i>	<i>p-code</i>	<i>package</i>	<i>description</i>
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human

M9433	P25	kit	Human IFN-gamma
M9431	P25	kit	Human IL-1 beta
M9402	P25	kit	Human IL-2
M9414	P25	kit	Human IL-4
M9415	P25	kit	Human IL-5
M9410	P25	kit	Human IL-10
M9413	P25	kit	Human IL-13
M9437	P25	kit	Human Perforin*

* Cytoplasmic granules of cytotoxic lymphocytes (CTLs) and Natural Killer cells release granzymes and perforin upon antigen specific activation. Perforin plays a pivotal role in granzyme B (GrB) mediated apoptosis. Release of these proteins in CTLs correlates with the cytolytic potential of cytotoxic lymphocytes.

The ELISPOT method is typically used with blood cells, and is a helpful tool in studying the human immune system and various treatments for disease (eg vaccines)

mouse

M9515	P25	kit	Mouse IL-5
M9533	P25	kit	Mouse IFN-gamma

PeliSPOT™ Supplementary reagents

Reagents to combine with our PeliSPOT™ Pairs or to enhance the performance and sensitivity of any commercial or home-brewed ELISPOT assay.

M2540	P7	50 ml	PeliSPOT™ buffer
M2051	P10	0.1 ml	poly-HRP, labelled with streptavidin, 1 mg/ml
M2032	P45	1 ml	poly-HRP, labelled with streptavidin, 1 mg/ml
M2521	P5	18 ml	TMB for PeliSPOT™, ready for use

A.EL.VIS ELISPOT analysers

The A.EL.VIS (Automated ELispot Video-analysis System) concept was developed by Prof. Heinfried Radeke of the Medizinische Hochschule Hannover, in collaboration with the Technical University of Hannover in Germany.

For many years Professor Radeke's Pharmacology Department used the ELISPOT technique for their own research. The development of the reader sprung from a need for a quick, reliable and automated method of analysis.

In the year 2000, Sanquin and the then established company AELVIS GmbH agreed to take the reader, which is now called the Eli.Expert, into production and to put it on offer world-wide through the channels of Sanquin Reagents.

The first "customers" for the AELVIS reader were Sanquin's department of research and Sanquin Reagents for the development of ELISPOT kits. Since then Sanquin and other new customers have suggested a lot of improvements in hardware and software. Most of these customer ideas and requirements were implemented within a few weeks after request. This resulted in a versatile reader and software, capable of running all types of 96 well plates, independent of their colour or transparency. Even counting bacterial colonies has now been realised and an option to count plaques is in the making.

In 2002 Sanquin and AELVIS initiated a project to develop a simple, low-cost, yet superior reader.

This resulted in 2003 in the introduction of the Eli.Scan. A highly developed but low-priced device, which nevertheless offers the same resolution and analysis options as the Eli.Expert.

The combination of the development of the Sanquin PeliSPOT™ kits and the use of the AELVIS analysis-software enables us to advise spot-parameter settings circumventing trial and error for accurate spot counting.

order-number	products	description
M7200	Eli.Expert	<p>4 stage reader for all plate types</p> <p>4 plate high throughput reader capable of measuring all types of microtiter plates. Suitable for Expert labs running high numbers of plates.</p> <p>A 3-chip colour CCD camera automatically captures each well after a software controlled positioning system did the accurate and automatic placement (real auto centring, no plate calibration necessary!). A specially developed object stage is capable of holding four 96 well microtiter plates, making a total of 384 measurements per run with an acquisition time of 20 minutes, which allows a high system throughput.</p> <p>An optical system, which consists of a camera, a special macro lens and a reflection-free object light, was designed to deal with different types of commercially available microtiter plates, e.g. white, opaque or transparent, membrane or plastic bottom, from manufacturers like Millipore, Nunc, Whatman Polyfiltronics or Greiner.</p> <p>Pictures are transferred to the connected PC, stored on hard drive, network volume or CD-ROM and are analysed by Eli.Analyse, the powerful A.EL.VIS ELISPOT Analysis Software.</p> <p>Configuration:</p> <p>The instrument comes as a complete system, including: Reader unit, PC Pentium IV with Windows XP Professional, AELVIS ELISPOT Analysis Software, TFT screen, Colour printer, On-line support and a two year warranty.</p>
M7202	Eli.Scan	<p>Foil Reader</p> <p>High-quality CCD scan unit.</p> <p>Highly recommended for research labs because of its low-price, simplicity, robustness and ease of maintenance.</p> <p>Analysis of 96 wells takes 10 minutes and dual colour (full colour mode) only 15 minutes.</p> <p>When scanning a 96 well membrane or foil the plate image is transferred to the connected PC using intelligent image analysis algorithms to separate the single wells. The extracted well images are individually stored and subsequently analysed by Eli.Analyse.</p> <p>Configuration:</p> <p>The Eli.Scan is a complete ready-to-use system, consisting of a dedicated computer configuration, including a high-quality CCD scan unit, colour printer, TFT screen and AELVIS ELISPOT analysis software, fully installed and tested with a 2 year warranty!</p> <p>*For easy handling we developed a 96-channel puncher, the Eli.Punch with dedicated adhesives, to prepare the plate for reading within 10 seconds.</p>

A.EL.VIS Supplementary products

order-number	p-code	package	description
M7210		Eli.Analyse	<p>Software to analyse data (not to acquire data)</p> <p>Eli.Analyse software features in detail</p> <p>Eli.Analyse powers A.EL.VIS instruments. In addition the software package is available as a stand-alone version for offline analysis. This offers the opportunity to share an instrument with other users while analysis at the personal office PC may be continued.</p> <p>The software is theoretically divided in two parts. Firstly the acquisition mode which is different for the Eli.Expert and the Eli.Scan. It enables definition of data storage. Secondly the analysis mode which is the same in both systems and available as Eli.Analyse for stand-alone use.</p> <p>During the development of Eli.Analyse the emphasis was set on user friendliness as well as on productivity and flexibility. Based on the means of image analysis algorithms the software makes powerful strategies of dealing with biologically variable spots available.</p> <p>The main software features are:</p> <ul style="list-style-type: none"> ▶ Real auto centring on Eli.Expert ▶ Spot finding based on edge detection algorithms ▶ Automatic background correction ▶ Separation of connected spots ▶ Calculation of spot size, spot intensity, spot shape and spot colour ▶ Dual-Colour Analysis ▶ Identification of overdeveloped areas and pollution ▶ Re-analyses of stored plates ▶ Batch mode i.e. for overnight processing ▶ Individual plate maps including replicates ▶ Statistical evaluation of replicates ▶ Calculation of spot size and intensity distribution ▶ Data export to external programs ▶ Integrated file management system ▶ User profiles to store and reload test protocols ▶ Colony count module available
M7205		Eli-Punch	<p>Puncher for 96 well Millipore plate</p> <p>The advantage of punching is not only that it offers the possibility to use the inexpensive Eli.Scan, but also that the foils can be stored easily, using minimal space (they can even be included in the lab journal). Preferably use specially designed Eli.Foil for neat sticking of the membrane bottoms</p>
M7206	P10	Eli-Foil	<p>Special foils for Millipore plates and 96 well puncher (25)</p> <p>Specially designed adhesive foil for punching out the membrane bottoms. Use in combination with Eli.Punch.</p> <p>The foil contains glue only at the locations where the bottoms will be stuck.</p> <p>No more sticking between the bottoms, no sticking on the scanner or in your lab journal.</p> <p>Eli.Foils has been designed for Millipore Multiscreen plates (types MAIP/MAHA/MHAB).</p> <p>One pack contains 25 foils.</p>

**Wyłączny przedstawiciel firm
Sanquin oraz A.EL.VIS GmbH
na terenie Polski:**

immunologia.BIZ

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UWAGA:

**W ramach współpracy z Ośrodkiem Szkoleniowo-
Wdrożeniowym ELISpot.pl oferujemy Państwu pomoc
we wdrażaniu metody ELISpot we własnym
laboratorium.**

**Oferujemy również usługi skanowania i analizy płytek
ELISpot, dzięki czemu możecie Państwo wdrożyć
w swoim laboratorium tę nowoczesną metodę bez
konieczności zakupu własnego czytnika!**

**Szczegóły:
www.ELISpot.pl**