

# ELISA Line

Almost 50 years of experience make the difference

- > Analyzer and instruments for all kinds of laboratories
- > Broad range of parameters
- > Proven quality



**Human**

Diagnostics Worldwide

# ELISA Line

## Perfect matching of all components for quality and efficiency

Antibodies are staggering biomolecules, highly engineered by nature during 3.5 billion years of evolution. It was a milestone for in vitro diagnostics taking advantage of their enormous diversity and specificity, leading to the development of immunoassays. ELISA plays an important role as an immunoassay in diagnostic research for more than 50 years. After being developed as a safe and simple alternative to radioimmunoassay, it developed rapidly in the 1970s and early 1980s, and revolute into commercially clinical products what we use today. The well-established analysis principle is complemented by high-end automation. Highly specialized equipment has proven itself through many years of ELISA experience.



### Benefits of ELISA

- > Well-known and proven method
- > High sensitivity due to an enzyme as a reporting group
- > High specificity due to the reaction between an antibody and antigen

## HUMAN solution out of one hand

### Fully automated analyzer

- > Fully automated 1, 2 or 4 plates analyzer
- > Suitable for small to large laboratories
- > Sample barcode reading for secure
- > The majority of HUMAN ELISA tests are preprogrammed, additional applications can be added at any time.

### Semi-automated instruments

- > Microtiter plate and strip reader
- > Workstation with washer, incubator and shaker



### Support / Service

- > Worldwide support and supply network
- > Well and constantly trained local staff of our partners
- > HUMAN support competence center in Germany and six regional sites guarantee worldwide service quality

### Reagents

- > Broad portfolio with more than 100 assays
- > Compliance to quality requirements
- > The majority of assays are preprogrammed on HUMAN photometer and analyzer (plug & run)

# Analyzer

For all kind of laboratories



## Elisys Quattro

REF 16300

4-plate fully automated ELISA analyzer incl. UPS  
for medium and high throughput segment

- > Up to 7 plates simultaneously\*
- > 4 independent incubators
- > Open system
- > Walk-away loading capacity
- > Up to 8 different tests on one plate\*
- > Continuous loading of samples, reagents and plates
- > Sample barcode reader built-in
- > Direct use of HUMAN/IMTEC kit components
- > Pre-programmed HUMAN/IMTEC tests
- > No carry over (disposable conductive tips)
- > Event log documentation
- > Clot and bubble detection
- > QC control program
- > In-process control features
- > Time management software
- > ASTM interface for bi-directional communication
- > External PC required
- > Dimensions routine use (incl. PC) 180 x 156 x 120cm



## Elisys Duo

REF 17200

2-plate fully automated ELISA analyzer incl. UPS  
best solution for the medium throughput segment

- > Up to 3 plates simultaneously\*
- > 2 independent incubators
- > Built-in PC with windows software and touch screen
- > Open system
- > Walk-away loading capacity
- > Up to 8 different tests on one plate\*
- > Continuous loading of samples, reagents and plates
- > Sample barcode reader built-in
- > Direct use of HUMAN/IMTEC kit components
- > Pre-programmed HUMAN/IMTEC tests
- > No carry over (disposable conductive tips)
- > Event log documentation
- > Clot and bubble detection
- > QC control program
- > In-process-control features
- > Time management software
- > ASTM interface for bi-directional communication
- > Dimensions routine use 125 x 95 x 115 cm

\* depends on the procedure of the ELISA kits applied

# Analyzer and Instruments

For small- to medium-volume laboratories



## Elisys Uno

REF 17350

1-plate fully automated ELISA analyzer incl. UPS  
for all kinds of laboratories

- > Ideal entry into ELISA automation
- > Optimised to meet your needs
- > Walk away loading capacity
- > Direct use of HUMAN and IMTEC kit components
- > Combining of up to 8 parameters simultaneously\*
- > Pre-programmed HUMAN/IMTEC tests
- > 4 PL calculation mode
- > Excellent cost/performance ratio
- > Easy to use software  
with self-explanatory structure
- > Time-management and QC modules
- > Interface for LIS communication
- > Dimensions routine use (incl. PC) 170 x 80 x 80 cm
- > External PC required

\* depends on the procedure of the ELISA kits applied



## Combiwash

REF 18460

Automatic microtiter plate washer,  
shaker and incubator

- > Large LCD display
- > Menu driven intuitive operation
- > Automatic prime and rinse
- > 4 wash bottles
- > Liquid detector for all bottles
- > Up to 100 different wash programs
- > Easy maintenance
- > 2 incubator positions
- > Shaking capability



## HumaReader HS

REF 16670

### Microplate Reader

- > 8-channel fiber optics, reads a complete plate in just 5 seconds
- > Sophisticated on-board software
- > State-of-the-art technology
- > All quantitative and qualitative calculation modes available
- > Accurate and precise results
- > Pre-programmed for HUMAN and IMTEC ELISA tests plus open protocols for user-defined assays
- > Large LCD display with touch screen
- > Stores calibration curves
- > Plate shaking capability
- > 4 PL calculation mode
- > Kinetic reading mode
- > Print programs
- > Export/import programs
- > Out of care calculation
- > Preset of often used plate layout
- > Multi-language menu: EN, RU, ES, FR



## HumaReader Single plus

REF 18000

### Microtiter strip reader

- > New touch screen design
- > Excellent price-performance ratio
- > Pre-programmed for HUMAN and IMTEC ELISA methods
- > User programmable
- > Automatic strip positioning, reading and calculation
- > Curve and cut-off calculation
- > Calibration automatically stored in memory
- > Built-in incubator
- > Built-in thermal printer
- > Use of single wells, 8-well or 12-well strips
- > Automatic filter wheel
- > New wide range external power supply 240/100 VAC

# ELISA Assay Panel

## High-quality tests with clinical relevance

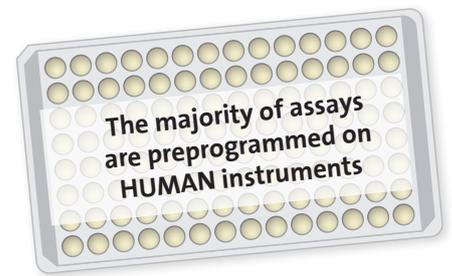
### Infectious Diseases

<b>HIV</b>	More than 35 million people infected worldwide
<b>Hepatitis B</b>	Infection leads to a variety of conditions including an asymptomatic chronic state, acute self-limiting infection and fulminant hepatitis. Chronic infection is a leading cause of cirrhosis and liver cancer.
<b>Hepatitis C</b>	Hepatitis C is the most important cause of chronic liver disease.
<b>Toxoplasmosa</b>	Acute toxoplasmosis in pregnant women can result in severe damage to or death of the fetus.
<b>Rubella</b>	During the first trimester of pregnancy infections can lead to congenital rubella syndrome with one or more birth defects.
<b>CMV</b>	CMV can cause severe morbidity and mortality in congenitally infected newborns and immunocompromised patients.
<b>HSV-1 + HSV-2</b>	Herpes simplex virus infections are among the most prevalent infections in humans.
<b>Dengue</b>	Dengue is a very important mosquito-borne viral disease with an estimated 50 million cases per year.
<b>Measles</b>	More than 1 million deaths per year (WHO estimate)
<b>VZV</b>	Virus causes varicella (chicken pox) and Herpes zoster (shingles)

<b>Syphilis</b>	Caused by <i>Treponema pallidum</i> – 12 million new cases per year, mostly in developing countries and rapidly increasing incidence in Eastern Europe
<b>Helicobacter Pylori</b>	<i>Helicobacter pylori</i> is responsible for 80–90% of gastritis cases and is suspected to be a major cofactor for the development of gastric and duodenal ulcers.
<b>Salmonella</b>	Salmonella Bacteria which are common in the ground, on plants and in human and animal feces. Samonelle produce toxins and lead to gastro intestinal infections.

### Fertility Hormones

<b>FSH + LH</b>	Important for the assessment of the menstrual cycle, the diagnosis of infertility and hormone therapy in menopause.
<b>hCG</b>	Marker for pregnancy screening and used for the assessment of hypogonadism.
<b>Prolactin (PRL)</b>	Used for the assessment of hyperprolactinemia and therapeutic monitoring.
<b>Estradiol</b>	Monitoring of infertility treatment and assessment of ovarian function
<b>Estriol</b>	Evaluation of fetal health and monitoring of high risk pregnancies
<b>Progesterone</b>	Testing of corpus luteum function and confirmation of ovulation
<b>Testosterone</b>	Differentiation of hirsutism and virilism, testing of hypogonadism and hypergonadism



## Fertility Hormones

**DHEA-S** Differentiation of hirsutism and virilism and testing of tumors of the adrenal cortex

## Thyroid

**TSH** Initial test for the determination of the thyroid status

**T3 / T4**  
**fT3 / fT4** Confirmation tests are done with fT4 or T4 and fT3 or T3 in the case of low or reduced TSH levels.

**Anti-TSH-Receptor** Thyroid antibody testing is primarily ordered

**Anti-TPO** to differentiate autoimmune thyroid

**Anti-TG** diseases from other forms of thyroid inflammatory diseases

## Allergy

**Total IgE** High levels can indicate an allergy or disposition

## Metabolism

**Cortisol** Assessment of hyper- and hypocortisolism

**d-Gliadin** Gliadin is a class of proteins present in wheat and several other cereals. Antibodies against gliadin indicate celiac disease.

**tTG** tTG is the autoantigen in celiac disease.

## Bone Marker

**Vitamin D** Detection of Vitamin D deficiency

## Tumor Markers

**AFP** Early marker – for gross defects in the fetus  
First marker – Germinal carcinoma and primary hepatocellular carcinoma

**CEA** First marker – for colorectal carcinoma  
Second marker – for pancreatic, gastric, breast, lung, C-cell and cervical carcinoma

**PSA** First marker – for prostate carcinoma

**fPSA** Marker to aid discrimination between prostate carcinoma and hyperplasia

**CA 15-3 Ag** First marker – for breast carcinoma

**CA 19-9 Ag** First marker – for pancreatic carcinoma  
Second marker – for colorectal, hepatobiliary and gastric carcinoma

**CA 125 Ag** First marker – for ovarian carcinoma

## Autoimmune

**CCP** Antibody to cyclic citrullinated peptide targeting joints in rheumatic patients

**RF IgM** Autoantibody for rheumatic factor

**RA33** Additional factor for rheumatology diagnosis, common in RF and CCP negative serum samples

*HUMAN provides a broad range of high quality autoimmune ELISAs. Please view our separate Autoimmune DX product catalog.*



Autoimmune DX  
Catalog

# ELISA Assay Panel

The comprehensive menu at a glance

## Infectious Diseases REF

CMV IgG	51203
CMV IgM	51103
Dengue IgG	51240
Dengue IgM	51140
H. Pylori IgG	51222
H. Pylori IgM	51322
HBsAg ultra sens	51050
anti-HBc*	51260
anti-HBs*	51255
anti-HCV	51275
HIV Ag/Ab	51215
HSV 1 IgG	51216
HSV 2 IgG	51226
HSV IgM	51126
Measles IgG	51206
Measles IgM	51106
Rubella IgG	51208
Rubella IgM $\mu$ -capture	51108
Salmonella (cut-off)	ITC40040
Samonella IgA	ITC40050
Syphilis Screen	51005
Toxo IgG	51209
Toxo IgM $\mu$ -capture	51119
VZV IgG	51210
VZV IgM	51110

## Bone Marker REF

25-OH Vitamin D	55500
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## Fertility Hormones REF

DHEA-S	55060
Estradiol	55030
Estriol	55040
FSH	53020
hCG	53040
LH	53010
PRL	53030
Progesterone	55020
Testosterone	55010

## Metabolism REF

Cortisol	55050
d-Gliadin IgA	ITC30605
d-Gliadin IgG	ITC30505
tTG IgA	ITC30400
tTG IgG	ITC30300

## Rheumatology REF

CCP antibodies	ITC60021
RF IgM	ITC60003
RA33 antibodies	ITC60015

## Tumor Markers REF

AFP	52010
CA 125	52050
CA 15-3	52080
CA 19-9	52060
CEA	52020
PSA	52030
fPSA	52035

## Thyroid REF

T3	54010
T4	54020
fT3	54015
fT4	54025
TSH	54030
TSH Receptor Antibodies	ITC85030
TG-Antibodies	ITC85010
TPO-Antibodies	ITC85020

## Allergy REF

Total IgE	51015
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Your local distribution partner

