25 years of successful immunoassay development for niche markets

Immundiagnostik celebrates its business anniversary and continues to explore new opportunities

In 1986, Immundiagnostik was founded by Dr. Franz Paul Armbruster with the strategic goal to develop and produce immunoassays that fit the various needs of clinical routine and research. What started out as a 3-men company in a small flat quickly gained speed and since then developed into a flourishing global operating business with more than 60 employees.

The company’s success is based on its unique strategy, which has changed little since the beginnings: We monitor the latest scientific developments and select clinically relevant parameters and disease markers, that are useful for diagnosis, therapy monitoring or research. We then develop high quality test systems according to market needs. Over the years, our broad ELISA portfolio has thus been supplemented by HPLC, LC-MS/MS, PCR products and immunochemicals.

Immundiagnostik continues its progressive path by exploring new opportunities in different markets around the world, by evaluating companion diagnostics options and by collaborating with research institutions.

Our achievements are the result of a dedicated team as well as of successful relations with our customers and business partners. We would like to use this opportunity to express our gratitude to all our stakeholders for cooperating with Immundiagnostik – some of you now for more than two decades. We look forward to working with you in the future!

The Immundiagnostik team wishes you Merry Christmas, peaceful holidays, and a healthy, successful New Year!
PRODUCT NEWS

**MRSA PCR for a fast & direct detection of Staphylococcus aureus in clinical samples**

Methicillin-resistant *Staphylococcus aureus* (MRSA) is responsible for several difficult-to-treat infections in humans. The bacterium has developed resistance to beta-lactam antibiotics and cephalosporins and is especially troublesome in hospitals and nursing homes. The MutaPLEX® MRSA *real time* PCR kit is suitable for the direct detection of MRSA in clinical specimens, containing both coagulase-negative staphylococci and methicillin-resistant *S. aureus*. No pathogen cultivation necessary, detection in less than two hours.

- MutaPLEX® MRSA, 96 tests (KG190396)

**Special buffer ensures stability of calprotectin in stool samples**

Our ELISAs for the determination of calprotectin in stool samples contain a special extraction buffer which maintains the stability of the parameter for four weeks at room temperature. This exceptional stability enables accurate analysis and prolonged storage of sample material. For a fast and economical calprotectin measurement we recommend our 1-hour assay – also available as 1-point calibration test.

- PhiCal® Calprotectin ELISA, 1-pt calibration (K 6967)
- PhiCal® Calprotectin ELISA (K 6927)

**Reliable routine markers of iron deficiency**

Many routine markers of iron deficiency (e.g. hemoglobin, transferrin, ferritin) are not adequate to discover pre-anemic stages and are influenced by infections or inflammation. Zinc protoporphyrin is a sensitive and specific indicator of the iron status, independent of infections and inflammation. Our zinc protoporphyrin HPLC kit allows the easy determination in whole blood in only 10 min. running time.

In addition, our novel Hepcidin LC-MS/MS kit enables the precise monitoring of iron homeostasis. Hepcidin is an early predictive marker of functional iron deficiency and allows the differentiation between Anemia of Chronic Disease (ACD) (high serum level) and Iron Deficiency Anemia (IDA) (low serum level). Quantitative determination in serum, tuning kit available.

- Zinc Protoporphyrin HPLC (KC2700)
- Hepcidin LC-MS/MS (KM4000)
- Hepcidin Tuning Kit (KM 4001)

**25(OH) Vitamin D Xpress ELISA for a quick routine analysis**

The 25(OH) Vitamin D Xpress ELISA is the latest member of our broad product portfolio in vitamin D analysis and accomplishes a convenient and precise status determination in only four hours. The automatable test measures 25(OH) vitamin D quantitatively in serum, even in small sample volumes. The protocol does not require overnight incubation or cooling – the ideal assay for the status analysis of 25(OH) vitamin D in daily routine.

- 25(OH) Vitamin D Xpress ELISA (K 2107)

+++ More products on our website

---

Weiterlesen einzigartig!


**ID-PRODUCTS IN THE FIELD**


**Serum OPG determination as survival rate predictor in prostate cancer patients with bone metastasis**

The authors of the actual Japanese study examined the diagnostic accuracy of serum osteoclastogenesis markers for the detection of bone metastasis and for the prediction of mortality in prostate cancer patients. They used Immundiagnostik ELISA kits to measure the concentration of OPG and RANKL in the serum of 201 subjects (51 prostate cancer patients with, 101 without bone metastasis as well as 49 healthy individuals). The statistical analysis subsequently identified independent predictors of bone metastasis and correlated both markers with the incidence of bone metastasis and survival rate. Elevated OPG levels in serum proved to be a significant predictor of bone metastasis and a reliable, independent prognostic factor for survival probability in patients with bone metastasis. The RANKL serum concentration on the other hand exhibited no diagnostic value.

The authors conclude from these data that OPG is an important parameter for predicting bone metastasis and that OPG could be an additional useful parameter for the assessment of the clinical classification of prostate cancer patients.

![Graph](image)

**Fig.: Cause-specific survival rate in prostate cancer patients (M1b) correlates with the serum OPG concentration. (Fig. 1 from Kamiya et al., 2011)**

- OPG ELISA (KB1011)
- total sRANKL ELISA (K1016)

**MEETING SUMMARIES**

**Vitamin D central topic in fall meetings**

The assessment of vitamin D has changed: While in recent years the hormone has been discussed mainly as a regulator of bone metabolism, new clinical data reveal the significance of vitamin D in other organ systems. A lack can have severe consequences and has been associated with an elevated risk for a variety of diseases (e.g. cardiovascular conditions, diabetes, cancer, low immunity).

The precise determination of vitamin D in routine and research has been a central business area at Immundiagnostik for years. Today, our comprehensive product portfolio covers the complete range of 25(OH) Vitamin D and 1,25(OH) Vitamin D diagnostics – from ELISA to LC-MS/MS. This unique competence has been presented by our field force at relevant meetings, including the ASBMR in San-Diego (16.-20.09.), leading international congress for bone research, at the national vitamin D symposia in Freiburg (14.-15.10.) and Schwerin (09.11.) and at the 7. interdisciplinary bone and muscle forum bone in Berlin (25.-26.11.).

**MEDICA – forum for dialogue**

Like in previous years, this year’s MEDICA fit the motto "B2B": There were continuous meetings at the booth with our international distributors and national business partners. In addition, our team could welcome many regular customers as well as new visitors at the booth. Our product presentations focused this year on our four core business areas: gastroenterology, cardiovascular diseases, bone metabolism, and oxidative stress alongside with our molecular biology portfolio. Aside from extensive dialogues and business appointments, our guests enjoyed the informal get-together at our bar with wine and snacks.
Praxis to the Point

1-Point calibration or standard curve? It depends on what you need!

The majority of our ELISA-Tests is available in two versions: As regular kit with five standards for the calibration of a standard curve or as 1-point calibration assay with only one calibrator. Since both tests are comparable in price and since both are CE-certified and automatable the question arises:

Which kit is the right one for your routine?

In our experience, this decision depends on the special needs of your laboratory. The 1-point calibration operates with a significantly reduced number of calibrators which have to be determined in each run. Therefore, more samples can be measured per kit. This procedure is economical, especially for a medium amount of samples.

Some customers hesitate to buy a 1-point calibration assay because they mistrust the accuracy of the data – a worry without reason: The 1-point calibration of a test is based on a statistically significant amount of runs which determine the standard curve. The resulting function of the curve then defines the calibration of the 1-point calibration test. All the customer needs to do for result evaluation is to use a four parametric logit-log model based on the standard curve of the respective kit lot and the calibrator value. All essential standard curve information is provided on the QC data sheet (see example on the figure to the right). In addition, a blank has to be measured to determine the background absorption. The fixation of the calibration curve by the two data points blank and calibrator equalize possible data deviations.

The statistic validation of the 1-point calibration assay thus warrants the same accuracy as the standard calibration.

If you are hesitant which calibration method to use our technical support team is happy to provide advice in all aspects.

tech.support@immundiagnostik.com

Fig.: Data sheet of the 1-point calibration version of the hemoglobin ELISA.

The function of the standard curve is provided and has to be adjusted for the respective run by the OD-values of the calibrator and the blank.

EVENTS

- ARAB HEALTH
  Booth No. RF38

- ECCO (European Crohn’s & Colitis Organisation) Congress
  16. - 18. February 2012, Barcelona / Spain
  Booth No. 17