Greiner Bio-One GmbH

Greiner Bio-One GmbH is specialised in the development, production and distribution of plastic laboratory equipment. The company, based in Frickenhausen (Germany), is an internationally leading technology partner for academia and research institutes as well as the diagnostic, pharmaceutical and biotechnology industries. Throughout the world, scientists and physicians are using products from Greiner Bio-One in cancer research, virus diagnostics and vaccine production.

With the BioScience business division, Greiner Bio-One ranks among the leading providers of specialised products for the cultivation and analysis of cell and tissue cultures, as well as microplates for high-throughput screening, allowing industry and research most rapid and efficient drug screening. In addition, Greiner Bio-One develops innovative biochip technologies for genotyping, for example, to identify infectious agents. The spectrum of application for these diagnostic kits ranges from human diagnostics to food analysis.

Under the management of Georg Heftberger, Rainer Perneker and Heinz Schmid, Managing Directors of Greiner Bio-One GmbH, the German head office of the BioScience division in Frickenhausen controls all research and development activities in the product divisions Cell Culture, High-Throughput Screening, Biochips and OEM worldwide.

Greiner Bio-One GmbH is a division of Greiner Bio-One International AG based in Kremsmuenster (Austria). In 2011 Greiner Bio-One International AG generated a turnover of 327 million Euro. It has over 1.700 employees and operates globally with 20 subsidiaries and numerous distributors in more than 100 countries. The Preanalytics business division, also based in Kremsmuenster, is also part of this network. With its complete solutions for the collection of venous and arterial blood samples, as well as urine samples, it is a system partner for hospitals, clinical laboratories, blood donation services and the diagnostic industry. Further, the business division provides a system for the collection and quantification of saliva samples, providing compelling results in saliva preanalytics.

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Greiner Bio-One GmbH
BioScience division, Cell Culture product sector

Greiner Bio-One GmbH develops and distributes products for the cultivation, storage and separation of cells and for specific applications in medical, pharmaceutical and biotechnological research.

The company’s product line CELLSTAR® offers a wide spectrum of cell culture flasks, dishes and plates. Their functional design, particular material properties and special coatings enable these vessels to be used not only in standard cell culture but also in cancer research, viral diagnostics, genetic engineering and vaccine production.

In response to the increasing automation of cell culture procedures, Greiner Bio-One developed the AutoFlask™, a cell culture flask for automated systems. With the ThinCert™Plate and appropriate cell culture inserts, Greiner Bio-One has also created an innovative platform for compatibility tests using skin models in the chemical and cosmetic industries.

The Cell Culture product sector was recently expanded with the innovative Advanced TC™ polymer modification. These cell culture products have a special surface that enables more effective cultivation of fastidious cells and facilitates complex testing systems.

For high-resolution microscopy and live cell analysis, Greiner Bio-One offers the new CELLview™ dish, a polystyrene cell culture dish with an embedded autofluorescence-free glass bottom. The unique subdivided version of the dish is ideally suited for multiplex analyses, for example, and is also available with the Advanced TC™ surface.

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Greiner Bio-One GmbH
BioScience division, High-Throughput Screening product sector

For decades, Greiner Bio-One GmbH has been developing and producing plastic microplates that are used throughout the world in laboratories for diagnostics and research. Microplates for high-throughput screening (HTS) enable fast, automated analysis of a multitude of substances. This high level of efficiency ensures successful development of new drugs, for example.

With one of the world’s largest product ranges, Greiner Bio-One is a leading supplier of microplates. Besides microplates, used for drug screening, the company also offers special plates for immunology, protein crystallisation, DNA analysis and microsystem technology.

Greiner Bio-One is one of the innovation leaders in the sector. In a number of cases, new developments are carried out in close collaboration with customers such as Boehringer Ingelheim Pharma GmbH & Co. KG and Novartis AG, which benefit from the company’s decades of experience with various materials and surface modifications.

One of the latest developments in this product sector are non-binding microplates. By repelling protein, these surfaces optimise the biochemical screening for active substances, as the influence of the plate surface on the test result is reduced considerably.

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Greiner Bio-One GmbH
BioScience division, Biochips product sector

Greiner Bio-One is specialised in the development of innovative molecular biology analysis methods. These include the biochip or DNA-array, a carrier medium accommodating a large number of biological or biochemical tests in a very compact space. This key technology enables biological and pharmaceutical research to clearly identify bacteria and viruses, for example, using the specific genetic fingerprint, thus achieving faster, more reliable diagnosis.

Greiner Bio-One’s HTA technology (High-Throughput microArraying) offers one of the first platforms for diagnostic use in microarray technology. It allows a multitude of individual tests to be performed in parallel in a small set of biological sample material. Laboratory and test facilities in industry, science and research use these innovative carrier materials for faster and more cost-effective analysis of DNA/RNA or protein sequences.

The applications for biochips range from human diagnostics to food analysis. For example, the PapilloCheck® test system detects various types of the virus responsible for cervical cancer (HPV). The ParoCheck® DNA chip identifies a unique range of bacteria that give rise to the widespread diseases gingivitis and periodontitis. For the first time, the CarnoCheck® DNA chip enables up to eight animal species to be detected in foodstuffs and animal feeds. CytoInspect™ identifies contamination with mycoplasmas in biological materials at species level and was developed for quality assurance in the biopharmaceutical industry.

The biochips from Greiner Bio-One were developed as complete systems that also include a scanner with corresponding software to digitally evaluate data.

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Greiner Bio-One GmbH
BioScience division, Biochips product sector: CytoInspect™

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CytoInspect™ – detecting contamination through mycoplasmas
CytoInspect™ detects mycoplasmas in biological materials at species level and was developed for quality assurance in the pharmaceutical and biotechnological industries. Contamination of cell cultures with mycoplasmas is a serious problem as they compromise pharmaceutical safety, reduce product yield and distort research results.

The test system was validated by Mycosafe Diagnostics GmbH (Vienna) in accordance with the specifications of the European Pharmacopoeia subject to GMP-compliant working conditions. CytoInspect™ has proven itself a highly sensitive, specific and reliable instrument for mycoplasma detection, with type-specific probes enabling identification of 40 different mycoplasma types in just five hours. This detection at species level enables conclusions to be drawn about the particular contamination source. Prevention of future impurities is therefore more targeted and product safety considerably enhanced. Extensive on-chip controls and a fully automated analysis with CheckScanner™ and CheckReport™-Software ensure reliable results.

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Greiner Bio-One GmbH

BioScience division, Biochips product sector: PapillioCheck®

Greiner Bio-One is specialised in the development of innovative molecular biology analysis methods. These include the biochip or microarray, a carrier medium accommodating a large number of biological or biochemical tests in a very compact space. This key technology enables biological and pharmaceutical research to clearly identify bacteria and viruses using the specific genetic fingerprint, thus achieving faster and more reliable diagnosis.

PapillioCheck®: test system for preventing cervical cancer

The PapillioCheck® test system detects 24 types of the human papilloma virus (HPV) responsible for cervical cancer. If the exact type of HPV infection is diagnosed, the doctor can assess the cancer risk for a patient much more effectively. Certain HPV types are high-risk and increase the probability of cancer significantly if they have become implanted in cervical cells over protracted periods extending to years or even decades. For example, HPV type 16 triggers serious precancerous stages in 52 percent of infected women within ten years.

Each year, around 1,700 women in Germany die from cervical cancer, which can be cured at an early stage in almost 100 percent of cases. PapillioCheck®, with its type-specific detection of various high and low-risk types, offers a key advantage over other systems, which usually enable only a rough risk calculation for HPV types. With sensitivity of 98 percent, PapillioCheck® delivers clinically relevant results. In Germany, costs are reimbursed by statutory health insurers in the event of a Pap result being inconclusive.

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Greiner Bio-One GmbH
BioScience division, Biochips product sector: ParoCheck®

Greiner Bio-One is specialised in the development of innovative molecular biology analysis methods. These include the biochip or microarray, a carrier medium accommodating a large number of biological or biochemical tests in a very compact space. This key technology enables biological and pharmaceutical research to clearly identify bacteria and viruses, for example, using the specific genetic fingerprint, thus achieving faster and more reliable diagnosis.

ParoCheck® – test kit for preventing periodontitis
The ParoCheck® DNA chip identifies a unique range of bacteria that give rise to the widespread diseases gingivitis and periodontitis. The test system enables semi-quantitative detection by dentists and laboratories of 20 bacteria associated with periodontitis. In the most serious cases, periodontitis in adults causes inflammation of gum tissue to spread to the jawbones and is thus the most common cause of tooth loss. Periodontitis also increases the risk of heart disease and premature births. DNA analysis leads to more precise and faster results in comparison to conventional methods. While detection systems from other providers generally detect five relevant bacteria, ParoCheck® identifies either 10 or 20 different marker bacteria. Reliable determination of a larger bacterial spectrum enables treatment to be much more focused and it can therefore be controlled in a more targeted way.

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Greiner Bio-One GmbH
BioScience division, Biochips product sector: CarnoCheck®

Greiner Bio-One specialises in the development of innovative molecular biology analysis methods. These include the biochip or microarray, a carrier medium accommodating a large number of biological or biochemical tests in a very compact space. This key technology enables biological and pharmaceutical research to clearly identify bacteria and viruses, for example, using the specific genetic fingerprint, thus achieving faster and more reliable diagnosis.

CarnoCheck®: reliable detection of animal constituents
For the first time, the CarnoCheck® DNA chip enables up to eight animal species to be detected in foodstuffs and animal feeds. Accurate detection of animal matter has become vital for suppliers and consumers as a result of the BSE problem and legal traceability requirements. The same applies to pharmaceutical quality control, as many drugs contain animal matter.

Using specific DNA probes enables minute animal elements to be identified up to a detection limit of 0.5 percent. The range of traceable species includes cattle, sheep, pigs, donkeys, hens, horses, turkeys and goats. CarnoCheck® can therefore be used for a variety of product analyses in the food, animal feed and pharmaceutical industries and in public testing. Digital evaluation of findings reliably eliminates sources of human error and enables the results to be archived. The short test times make the DNA chip ideal for time-critical test series.

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Greiner Bio-One GmbH
BioScience division, OEM product sector

Greiner Bio-One GmbH, as an original equipment manufacturer (OEM), is a longstanding partner to the industry. As a leading supplier of special products for cell cultures and microplates for high-throughput screening and as a developer of innovative biochips, the company performs contract work from the pharmaceutical industry, the diagnostic and medical technology sectors.

Greiner Bio-One uses injection moulding technology to produce a whole range of customised plastic platforms for the life sciences sector. Experienced scientists provide support for customers in carrying out their projects. Greiner Bio-One offers the complete product development and production process from the idea through to the finished product, i.e. design studies, prototyping and fully automated manufacturing under one roof. The company produces small and large series, undertakes customer-specific branding and can call on production facilities in Europe, the U.S. and Asia. Greiner Bio-One is certified to DIN EN ISO 9001 and DIN EN ISO 13485 (international standard for medical product manufacturers).

A variety of plastics is available for customers with specific requirements, and combinations with film, glass or other materials are also possible. In addition, various surface treatment procedures are deployed to adapt material properties.

Greiner Bio-One also manufactures customised plastic microfluidic product solutions that are designed specifically for the handling of samples on a microlitre scale. These closed channel systems enable handling of even minute sample volumes. Various highly developed joining techniques are used to produce completely clean and adhesive-free microstructural channels. This is another area where customers are offered a wide selection of different materials and surface finishings. Microfluidic structures can be used for example for rapid testing of protein crystallisation conditions and with very small sample sizes.

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