

**Press Kit
Biotechnica 2010**

Greiner Bio-One GmbH

Your contacts at Greiner Bio-One BioScience

Kerstin Mahle & Julia Mai
Tel.: +49-(0)7022/948-0
Fax: +49-(0)7022/948-514
marketing@de.gbo.com
www.gbo.com/bioscience

Your contact with editor's office

**Zeeb Kommunikation
Public Relations und Werbung**
Anja Pätzold
Tel.: +49-(0)711/607 07 19
Fax: +49-(0)711/607 07 39
info@zeeb.info
www.zeeb.info

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Automated and efficient handling of frozen samples

Frickenhausen, [18 March 2010] – Greiner Bio-One GmbH is introducing the novel Datamatrix Cryo Rack at the Analytica 2010 in Munich. Up to 48 Cryo.s freezing vials can be scanned simultaneously in this new rack, thus enabling automated and efficient sample handling.

Cryo.s freezing tubes, which Greiner Bio-One successfully launched last year, feature an identification number encrypted in a Datamatrix code. Each frozen sample is thus given a unique, machine-readable identity that is linked to sample-related information in a database. This plays a key role in a laboratory's day-to-day work, as it enables samples to be identified accurately even after a number of years. The Datamatrix code is written into the plastic base of the vials using a laser. The design of the Datamatrix Cryo Rack allows simultaneous scanning of up to 48 tubes via openings in the base using a flat bed scanner. Thus data on the origin, type and age of samples can be saved and processed automatically.

The codes enable durable and reliable sample labelling, as they are resistant to mechanical stresses, low storage temperatures and most solvents. An automatic error-correction algorithm, which even makes partly damaged codes readable again, provides extra data reliability. The new Datamatrix Cryo Rack for Cryo.s freezing vials completes the cryogenics product portfolio of Greiner Bio-One GmbH.

Greiner Bio-One GmbH – BioScience Division

Greiner Bio-One is specialised in the development, production and distribution of plastic laboratory equipment. The company is technology partner for universities, research institutes and the diagnostic, pharmaceutical and biotechnology industries as well. With the **BioScience 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. Additionally Greiner Bio-One develops innovative biochip technologies for genotyping. Under the management of Heinz Schmid, the German headquarters of the BioScience division in Frickenhausen (Baden-Württemberg) controls the whole research and development activities in the product ranges Cell Culture, High-Throughput Screening, Biochips and OEM.

Greiner Bio-One GmbH is a division of Greiner Bio-One International AG, based in Kremsmuenster (Austria). Today Greiner Bio-One International AG generates a turnover of 278,6 million Euro. It has over 1,400 employees and operates globally with 19 own subsidiaries and numerous distributors in more than 100 countries.

Further information about Greiner Bio-One can be obtained from:

Greiner Bio-One GmbH	Zeeb Kommunikation
Kerstin Mahle	Anja Pätzold
Maybachstraße 2	Hohenheimer Straße 58a
72636 Frickenhausen	70184 Stuttgart
Phone: +49 (0) 7022 / 948-0	Phone: +49 (0) 711 / 60 70 719
Fax: +49 (0) 7022 / 948-514	Fax: +49 (0) 711 / 60 70 739
E-Mail: marketing@de.gbo.com	E-Mail: info@zeeb.info

Reliable light resistance with Light Protection Tubes

Frickenhausen, [16 September 2009] – Greiner Bio-One GmbH is expanding its range of light resistant vessels. Light Protection Tubes made of pigmented polypropylene are now also available as reaction tubes for smaller volumes up to 1.5 ml providing effective protection for photosensitive substances against harmful UV radiation.

Light-sensitive substances such as certain vitamins and enzymes, metallic salts, photosensitisers and antibodies coupled with fluorescent dyes must be stored under special conditions in the laboratory to ensure they are not degraded by UV radiation leading to a loss of functionality. Existing brown glass flasks and polypropylene tubes can effectively protect these solutions and reagents from harmful effects of light. However, they are not generally suitable for storing smaller sample sizes in the millilitre range. By expanding its portfolio of Light Protection Tubes – for storing light-sensitive materials and light-sensitive reactions, Greiner Bio-One GmbH has closed this gap in the market. Light-protection centrifuge tubes in 15 and 50 ml sizes have already been part of the product range. A new addition to the portfolio is a 1.5 ml light-protection polypropylene reaction tube with attached cap. This is a major improvement for scientists who, until now, had to wrap smaller vessels in aluminium foil. Compared to transparent standard tubes, products made from pigmented polypropylene display no light transmission in a broad wavelength range to ensure optimal protection of the light-sensitive sample.

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Kerstin Mahle and Julia Mai	Silke Stumvoll and Rita Kirschnick
Maybachstraße 2	Hohenheimer Straße 58a
72636 Frickenhausen	70184 Stuttgart
Phone: +49 (0) 7022 / 948-0	Phone: +49 (0) 711 / 60 70 719
Fax: +49 (0) 7022 / 948-514	Fax: +49 (0) 711 / 60 70 739
E-Mail: marketing@de.gbo.com	E-Mail: info@zeeb.info

Beauty to rival Swarovski – protein crystals in CrystalSlide

Frickenhausen, [28 July 2009] – Greiner Bio-One GmbH has developed a new platform for the production and analysis of protein crystals. CrystalSlide for counter diffusion applications enables crystals to be analysed in an X-ray source and is also suitable for applications with polarised and UV light.

A key prerequisite for targeted drug development is knowing the three-dimensional structure of proteins. In order for this to be possible, however, the proteins must be available in the form of high-quality pure crystals. Producing and analysing these is very time-consuming and thus expensive.

Greiner Bio-One GmbH has now developed a new platform for counter diffusion applications – that is to say for the production of protein crystals in a concentration gradient – in a handy slide format. CrystalSlide has twelve microstructured channels. The design has been optimised to ensure that the inlets are suitable for manual filling using a pipette and the slides can be used in automated systems – in conjunction with a frame in standard microplate format.

The benefits of CrystalSlide are not limited to the production of protein crystals. In addition to enabling its valuable contents to be analysed under any conventional microscope, CrystalSlide is also suitable for all commonly used automated imaging systems. At just 0.6 millimetres thickness, the polyolefin slides combine excellent optical characteristics with low birefringence and are permeable to UV light and X-rays for in-situ analysis of protein crystals. The low sample volume required – just 600 nl – also helps cut the cost of protein crystallisation processes significantly.

CrystalSlide™ is part of Greiner Bio-One GmbH's CrystalStar™ family, which includes a number of protein crystallisation platforms and associated accessories.

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Fax: +49 (0) 7022 / 948-514	Fax: +49 (0) 711 / 60 70 739
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CELLview improves microscopic vision

Frickenhausen, [13 May, 2009] – The new CELLview product family developed by Greiner Bio-One GmbH combines the convenience of a standard plastic cell culture dish with the high optical quality of a glass bottom. This new development facilitates high-resolution microscopic imaging of in-vitro cultivated cells.

To understand the complexity and dynamics of biological processes it is essential to analyse the transport pathways of specific proteins or the interaction of molecules in living cells. High resolution microscopy techniques, such as confocal microscopy, are technologically advanced and require high quality of the cell culture product in use. The CELLview cell culture dish developed by Greiner Bio-One has been designed specifically for high-resolution microscopy and live cell analysis fulfilling the mentioned quality standards. The embedded glass bottom enables detailed, non-invasive imaging of in-vitro cultivated cells. While conventional plastic cell culture dishes are not suitable for complex imaging applications such as fluorescence microscopy, the autofluorescence-free glass bottom of the CELLview cell culture dish ensures maximum spectral transmission and prevents depolarisation of light. The unique subdivided version of the CELLview dish for multiplex analyses reduces the required amount of cells and reagents and allows significant time savings in the test procedure. To meet the demands of a wide range of cell culture applications, CELLview is available with a variety of surfaces, including the innovative Advanced TC surface, which significantly improves cellular attachment.

CELLview™ is a product family from Greiner Bio-One™ GmbH for high-resolution microscopic cell culture applications.

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Sensitive, specific and fast – external validation of the Mycoplasma Kit

CytoInspect completed

Frickenhausen – [03/17/2009] - The international congress “2009 PDA, 3rd Workshop on Mycoplasmas”, to be held in Berlin from 24 to 26 March, offers scientists from the pharmaceutical and biotechnology industries, research institutes and external contract laboratories a platform to discuss new detection methods for mycoplasmas. Greiner Bio-One GmbH will be presenting its innovative Mycoplasma Kit CytoInspect, which enables 40 mycoplasmas to be detected in cell cultures at species level.

As large numbers of biological and medical products are produced using cell cultures, contamination with mycoplasmas is a serious problem. Impurities in cell cultures can have a considerable impact on the safety, purity, effectiveness and resistance of biopharmaceutical products. CytoInspect™, launched by Greiner Bio-One GmbH, is a ready-to-use test kit that helps identify mycoplasma species in cell cultures and other biological products within a few hours. The test system has been validated by Mycosafe Diagnostics GmbH (Vienna, Austria), headed by Prof. Renate Rosengarten, in accordance with the specifications of the European Pharmacopoeia subject to GMP-compliant working conditions. CytoInspect has made a name for itself as a highly sensitive, specific and reliable instrument for mycoplasma detection, with species-specific probes enabling identification of 40 different mycoplasma species. Bacteria are also detected across-the-board using a universal DNA probe. Enabling conclusions to be drawn about the source of contamination greatly facilitates quality assurance in the biopharmaceutical industry, particularly for in-process monitoring.

Biochips are based on HTA™ (High-Throughput microArraying) technology, one of the first platforms for diagnostic use in microarray technology. Laboratory facilities in industry, science and research use these complete systems for fast and cost-effective analysis of DNA/RNA or protein sequences. The applications range from human diagnostics to food analysis.

Greiner Bio-One GmbH – BioScience Division

Greiner Bio-One is specialised in the development, production and distribution of plastic laboratory equipment. The company is technology partner for universities, research institutes and the diagnostic, pharmaceutical and biotechnology industries as well. With the **BioScience 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. Additionally Greiner Bio-One develops innovative biochip technologies for genotyping. Under the management of Heinz Schmid, the German headquarters of the BioScience division in Frickenhausen (Baden-Württemberg) controls the whole research and development activities in the product ranges Cell Culture, High-Throughput Screening, Biochips and OEM.

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Fax: +49 (0) 7022 / 948-514	Fax: +49 (0) 711 / 60 70 739
E-Mail: marketing@de.gbo.com	E-Mail: info@zeeb.info

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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 Heinz Schmid, Managing Director 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.

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For further information please contact:

Greiner Bio-One GmbH
Kerstin Mahle and Julia Mai
Maybachstraße 2
D-72636 Frickenhausen
Phone: (0 70 22) 948 - 0
Fax: (0 70 22) 948 - 514
E-Mail: marketing@de.gbo.com

Zeeb Kommunikation
Anja Pätzold
Hohenheimer Straße 58a
D-70184 Stuttgart
Phone: (07 11) 60707-19
Fax: (07 11) 60707-39
E-Mail: info@zeeb.info

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.

For further information please contact:

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Kerstin Mahle and Julia Mai
Maybachstraße 2
D-72636 Frickenhausen
Phone: (0 70 22) 948 - 0
Fax: (0 70 22) 948 - 514
E-Mail: marketing@de.gbo.com

Zeeb Kommunikation
Anja Pätzold
Hohenheimer Straße 58a
D-70184 Stuttgart
Phone: (07 11) 60707-19
Fax: (07 11) 60707-39
E-Mail: info@zeeb.info

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.

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 (**H**igh-**T**hroughput micro**A**rraying) 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: CytolInspect™

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CytolInspect™ – detecting contamination through mycoplasmas

CytolInspect™ 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. CytolInspect™ 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.

For further information please contact:

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Kerstin Mahle and Julia Mai
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D-72636 Frickenhausen
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BioScience division, Biochips product sector: PapilloCheck®

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.

PapilloCheck®: test system for preventing cervical cancer

The PapilloCheck® 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. PapilloCheck®, 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, PapilloCheck® 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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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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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.

For further information please contact:

Greiner Bio-One GmbH
Kerstin Mahle and Julia Mai
Maybachstraße 2
D-72636 Frickenhausen
Phone: (0 70 22) 948 - 0
Fax: (0 70 22) 948 - 514
E-Mail: marketing@de.gbo.com

Zeeb Kommunikation
Anja Pätzold
Hohenheimer Straße 58a
D-70184 Stuttgart
Phone: (07 11) 60707-19
Fax: (07 11) 60707-39
E-Mail: info@zeeb.info

Please fax back to: +49-(0)711/607 07 39

**Zeeb Kommunikation
Anja Pätzold
Hohenheimer Straße 58a
70184 Stuttgart**

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