Press release
Bosch Ventures

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Applyo Jena secures Series A funding round led by Bosch Ventures

Leap in freeze-drying technology improves stability, rapid deployment, and accuracy of diagnostic tests in non-laboratory settings by an order of magnitude.

- Germany-based Applyo Jena raised Series A funding round led by Bosch Ventures, together with LBBW Venture Capital.
- The funds will be used to accelerate international expansion and enter the pharma market.
- Dr. Ingo Ramesohl, Managing Director of Bosch Ventures: “Applyo’s pioneering approach opens exciting opportunities for providers of point of care systems to transport and store sensitive reagents and enzymes without continuous cool chains and therefore enabling more sustainable supply chains”

Stuttgart/Jena, Germany – Bosch Ventures, the corporate venture capital company of the Bosch Group, completed an investment in the Series A funding round of Applyo Jena GmbH. The Germany-based company is an innovative freeze-drying technology provider, that offers significant advantages over traditional liquid reagents, e.g. extended shelf-life and ease of use. “Diagnostics are increasingly shifting to the point of care and even towards home testing, enabling faster, more accessible, and patient-centric solutions that enhance early detection and treatment efficiency. Applyo’s pioneering approach opens exciting opportunities for providers of point of care systems to transport and store sensitive reagents and enzymes without continuous cool chains and therefore enabling more sustainable supply chains”, says Dr. Ingo Ramesohl, Managing Director of Bosch Ventures.

Redefining freeze-drying

Applyo Jena is specialized in the development and production of lyophilized reagents and enzymes, so called “lyo beads”. Throughout the process of lyophilization, a form of freeze-drying, water is removed from sensitive reagents and enzymes and beads are formed. This offers significant advantages over

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traditional liquid reagents, including extended shelf life, stability at ambient temperature, and ease of use.

Applyo Jena has developed a proprietary and unique lyophilization technology to produce precise lyo beads with homogenous quality. Compared to other processes, liquid nitrogen is not required. That not only lifts the scalability of lyo beads production to a new level but also unlocks new markets in life science and pharmaceuticals. This breakthrough approach is redefining the possibilities of freeze-drying and taps into a fast-growing global market that is valued at more than 6bn US Dollar based on a recent report by Research Nester.

Dr. Hanno Hermann, Co-founder of Applyo Jena, stated, "After relocation to our new laboratory, the funding from Bosch Ventures and LBBW VC now opens the door to bring our innovative lyophilized reagent solutions to a broader global market." Apart from internationalization and further expansion of the global distribution network, Applyo Jena will use the Series A funding round to enter new markets such as pharmaceuticals, meeting the global demand for stable, ready-to-use reagents in diagnostics, pharmaceuticals, and life sciences.

The investment round led by Bosch Ventures, together with LBBW VC, underscores the commitment to supporting groundbreaking technologies that advance the fields of diagnostics and life sciences improving people's quality of life.

Press photos and infocharts are available on the Bosch Media Service at www.bosch-press.com.

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About Bosch Ventures
Robert Bosch Venture Capital GmbH (Bosch Ventures) is the corporate venture capital company of the Bosch Group, a leading global supplier of technology and services. Bosch Ventures invests worldwide in innovative start-up companies at all stages of their development. Its investment activities focus on technology companies working in areas of business of current and future relevance for Bosch, above all, automation and electrification, climate technologies, enabling technologies, and healthcare systems. Bosch Ventures also invests in services and business models that are relevant to the above-mentioned areas of business. Furthermore, Bosch Ventures enables co-innovation between Bosch and startups through the Open Bosch Program.
Additional information is available online at: www.bosch.ventures

The Bosch Group is a leading global supplier of technology and services. It employs roughly 417,900 associates worldwide (as of December 31, 2024). According to preliminary figures, the company generated sales of 90.5 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and

Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 86,900 associates in research and development, of which nearly 48,000 are software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The remaining shares are held by Robert Bosch GmbH and by a corporation owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com.

About Applyo Jena

Applyo Jena GmbH develops superior technologies for the freeze-drying of reagents and is the competence center for the development and production of long-life reagents. Applyo offers ready-to-use freeze-dried reagents of superior quality, produced from small quantities to high-volume batch processes with high homogeneity. Applyo Jena GmbH was founded in 2021 by three senior managers, two of them with more than 20 years of experience in development and manufacturing in biotechnology industry as well as in regulated diagnostic industry. Finance expertise is supported by the third founder with C-level background from automotive industry.