



## PRESS RELEASE

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# Three significant Ziccum patent families to be published

**The three Ziccum AB (publ) ('Ziccum') patent application families advanced to international Patent Cooperation Treaty (PCT) stage in April 2024 will now be published. As of 31 October 2024, the PCT applications will be available for consultation worldwide. This constitutes another important step in Ziccum's intellectual property development program for its LaminarPace® technology.**

The specific Ziccum strategy for intellectual property (IP) is a multi-layered approach to cover and protect the full range of Ziccum's innovations. It consists of patents, trademarks and know-how. The international Patent Cooperation Treaty (PCT) patent applications to be published now are addressing three different perspectives of the unique LaminarPace® processing and its results, to generate several layers of protection. The three fields are as follows.

1) 'SYSTEMS FOR DRYING OF COMPOSITIONS AND RELATED METHODS'  
covering substantial equipment development for the LaminarPace® unit.

This application, covering new equipment configurations in the LaminarPace® drying unit, has the largest scope including 50 claims. It covers numerous modifications in design and operational mode, for example enabling higher nebulization rates to increase production capacity. It also covers a vast number of additional equipment principles and fine optimizations performed during years of development of the LaminarPace® unit at Ziccum.

2) 'DRYING OF COMPOSITIONS'  
covering optimized parameters for LaminarPace® processing.

The second application is detailing the best process parameters for optimal LaminarPace® processing, based on valuable learnings in the Ziccum master plan work since 2022, learning from the interaction of equipment, formulations and process parameters. It is an important extra level of protection and secures the Ziccum position carrying unique knowledge of how to apply the LaminarPace® technology for the best pharmaceutical product quality and attributes.

3) 'NANOPARTICLE FORMULATIONS'  
covering formulations that are optimized for LaminarPace® drying.

This application covers new aspects of Ziccum's formulation expertise, specifically for LaminarPace® applications. Lipid nanoparticle (LNP) formulation is the preferred formulation type in the growing field of (m)RNA development for new therapeutics and vaccines. Ziccum has gained extensive knowledge in the complex LNP formulation field in several studies during 2023 and 2024, confirming excellent results both *in-vitro* and *in-vivo*. This patent application covers these data sets as well as formulation knowledge also in a broader sense.

Ann Gidner CEO: "It is impressive how we have executed on our new strategy and master plan, both taking the LaminarPace unit much further towards completion and final design and generating strong data packages for new valuable targets. We are proud to include this new knowledge built for all these patent perspectives. Also, we are generating further data for a new patent application in planning."

**For more information about Ziccum, please contact:**

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## About Ziccum

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Ziccum is developing LaminarPace®, a unique drying method for biopharmaceuticals and vaccines based on mass transfer, not heat transfer. The technology is offered by licensing to vaccine and biologics developers and manufacturers in the global pharmaceutical industry. By reducing drying stress to the active ingredient, LaminarPace® uniquely enables particle-engineered, thermostable dry powder biopharmaceuticals which can be easily handled and transported and are highly suitable for novel administration routes. The technology has been successfully applied to mRNA, peptides, proteins, antibodies, lipids and enzymes as well as excipients and adjuvants, and is well suited for industrial application. Ziccum is listed on the Nasdaq First North Growth Market.

## Attachments

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