



**ARECOR LIMITED**

*("Arecor" or "the Company")*

**PATENT PORTFOLIO UPDATE**

**"EUROPEAN PATENT FOR ARECOR'S PROPRIETARY TECHNOLOGY  
ENABLING HIGHLY CONCENTRATED BIOTHERAPEUTICS"**

**Cambridge, UK.**, 08 January 2018: Arecor Ltd ("the Company"), the UK-based leading formulation technology company, focussed on developing superior biopharmaceuticals via the innovative reformulation of proteins and peptides, is pleased to announce the European Patent Office ("EPO") has issued "Notice of Intention to Grant" for Arecor's patent application protecting the Company's proprietary technology used in the development of stable, low-viscosity formulations of highly concentrated protein therapeutics, including monoclonal antibodies such as trastuzumab or ustekinumab or fusion proteins such as abatacept.

The patent will provide Arecor's novel proprietary technology with broad protection in the formulation of highly concentrated compositions of therapeutic proteins with low viscosity and a very low rate of aggregation and these compositions will enable the subcutaneous delivery of high value products to a considerably higher specification compared with other approaches.

A combination of the high therapeutic dose and the highly desirable low injection volume often leads to a need for very highly concentrated formulations of protein based therapeutics. Achieving such concentrated formulations can be exceptionally challenging. Arecor has developed a novel proprietary technology to formulating highly concentrated compositions of therapeutic proteins with low viscosity and a very low rate of aggregation, thus enabling a subcutaneous delivery of high value products where other approaches have failed. The technology consists of several novel formulation platforms and computational algorithms that identify unique combinations of excipients to achieve the required stability and viscosity for any given protein. The novel platforms are already protected by a number of patents and the latest communication from the EPO regarding the intention to grant an additional patent, which is specific to stable, low-viscosity compositions of concentrated proteins, further strengthens Arecor's intellectual property portfolio.



**Dr Jan Jezek, Chief Scientific Officer at Arecor, commented:** *"The intention of the European Patent Office to grant this patent is a very important milestone in our rapidly growing patent portfolio. We have been very successful in patenting unique combinations of excipients that impart considerably improved stability of protein and peptide-based therapeutics, as well as different types of vaccines. This new patent relates specifically to concentrated protein formulations, which is one of the most challenging and fastest growing areas of the biopharmaceutical industry. The patent considerably strengthens our patent portfolio and our position as a world leader in the formulation of superior biotherapeutics and vaccines."*

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**About Arecor**

Arecor Limited is a leader in developing superior biopharmaceuticals through the application of an innovative formulation technology platform. Arecor is leveraging this platform to develop a portfolio of proprietary products that will enable improved treatments for diabetes via the innovative reformulation of approved proteins and peptides.

Arecor's product portfolio also includes:

- Stable aqueous glucagon for emergency and artificial pancreas use,
- Novel insulin formulations to deliver ultra-rapid acting insulin analogs and;
- Ultra-concentrated rapid acting insulin to enable the miniaturisation of devices, and



- A series of undisclosed pre-clinical programmes.

In addition, Arecor partners with leading pharmaceutical and biotech companies to deliver superior reformulations of their proprietary products, which would otherwise not be possible using conventional formulation science.

[www.arecor.com](http://www.arecor.com)

#### **About Arestat™**

Arecor has significant experience and a proven track record in applying the Arestat™ formulation technology platform to deliver superior biopharmaceutical product profiles across a broad range of proteins, peptides and vaccines.

#### **About Arecor's Patent Portfolio**

Arecor's technology is protected by 21 patent families, including 23 granted patents. Arecor has been exploiting its technology in partnerships with pharmaceutical companies, successfully developing superior product profiles, including stable high-concentration antibodies with low viscosity, reformulations of lyophilised or freeze-dried products into stable liquids or stable vaccines that can be used outside the cold chain.