

Low-cost production of therapeutics:

High Efficiency Industrial Scale Protein Purification Process

Current Technologies and Market

Therapeutic products that are manufactured by biotechnological means such as insulin and the blood clotting factor VIII have prominent market positions. Newly developed biopharmaceuticals are constantly added, and more than 20 years after the first approvals, some of these biopharmaceuticals are losing their patent protection. This creates a substantial and growing market for generics.

Sales volume for prescription drugs in the US alone is close to US\$ 220 billion, and a substantial increase is being predicted.

A significant part of the production costs of pharmaceutical products is due to complicated and resource intensive purification processes.

Secure Your Innovation Advantage

This novel process for the purification of proteins, which is both highly efficient and low cost, was successfully developed at the KIT.

This innovative technique aims to substantially shorten the down-stream process necessary for the purification of proteins.

Unlike existing systems, this novel process offers the potential for inclusion in large scale processing operations and is thus of particular interest to the pharmaceutical industry and manufacturers of laboratory equipment.

Patent Situation

The German Patent and the Australian Patent are granted and European and US applications are filed.

Innovation

The innovative element in this new development is the use of an oscillating magnetic field which results in optimal binding and flow capacities. The process, which has a total of only three steps, opens up the possibility of achieving significantly higher yields and improved purity compared with conventional methods.

Its application is particularly suited for manufacturers of laboratory equipment and the pharmaceutical industry.

Your Advantages at a Glance:

- Shortening of the downstream protein purification processes
- Substantial cost and time savings
- Capable of being implemented on an industrial scale
- Fast kinetics

Technology Transfer

The Technologie-Lizenz-Büro GmbH has been charged with the commercialization and now offers companies the opportunity to obtain a license to exploit this novel process technology.

For further information about this novel protein purification technology, please contact:

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