

LANXESS expands Lewatit range

- **New Lewatit ion exchange resins and adsorbers for separation, purification, and chromatography of biomolecules**
- **Specific solutions for the pharmaceutical and bioprocessing industries**
- **Opening new market access**

Cologne, April 25, 2023 – Specialty chemicals company LANXESS has grouped together 16 new ion exchange resins and adsorbents for the pharmaceutical and bioprocessing industries under its trusted umbrella brand Lewatit. They are used in various pharmaceutical and bioprocessing applications to separate and purify biomolecules. Applications of these end products range from food and animal feeds to active pharmaceutical ingredients (APIs) that are used in medicinal products.

“Typically, our products support the separation of biomolecules from complex biomass mixtures and play a key role in their further purification or stabilization,” explained Dr. Jenny Boettger, Technical Marketing Manager in the Liquid Purification Technologies (LPT) business unit at LANXESS. “As one of the leading manufacturers of ion exchange resins, we are hoping that this innovative product range will attract new customers from the pharmaceutical and bioprocessing industries and further strengthen our market position,” added the chemist.

New resins for downstream processes

The production of biomolecules derived from natural extracts and biological fermentation processes is strongly supported by a wide range of Lewatit ion exchange and adsorber resins. This resin technology opens up a variety of separation and purification options for all kinds of operation scales. The new types are specifically designed to be used in downstream processing for production of various biomolecules, including products from animal- and plant-sourced natural extracts. All resins are based on hydrophobic (polystyrene-divinylbenzene) or medium hydrophilic (polyacrylic)

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polymers. They were specifically developed to meet the high demands in industries such as biotechnology, pharmaceuticals, biopharmaceuticals, nutraceuticals, and food production in order to detoxify, convert, decolorize, or demineralize the respective molecules more easily.

Through ion exchange or adsorption processes, biomolecules such as peptides, antibiotics, vitamins, amino acids, and polysaccharides can be separated and purified more effectively. All these biomolecules are indispensable in today's world. Antibiotics are essential for the treatment of bacterial infectious diseases. The intake of vitamins and numerous amino acids and proteins supports vital functions of the body. Diverse polysaccharides are found in part in everyday use. In the form of heparin and structure-like polysaccharides, for example, they are used to prevent venous thrombosis. In cosmetics, hyaluronic acid acts as a humectant due to its high water-binding capacity.

Outstanding features

Benefits of Lewatit include good chemical and mechanical bead stabilities, excellent kinetics and selectivity's, high capacities, and good economics due to lean design and high performance. and come with a certificate and statement.

LANXESS's biopharmaceutical-quality ion exchange resins and adsorbents are halal, kosher, non-GMO, and come with certificates and statements including information about allergens, heavy metals and food regulations.

Detailed information, including technical product data sheets and certificates, can be found online at <https://lanxess.com/en/Products-and-Solutions/Brands/Lewatit>.

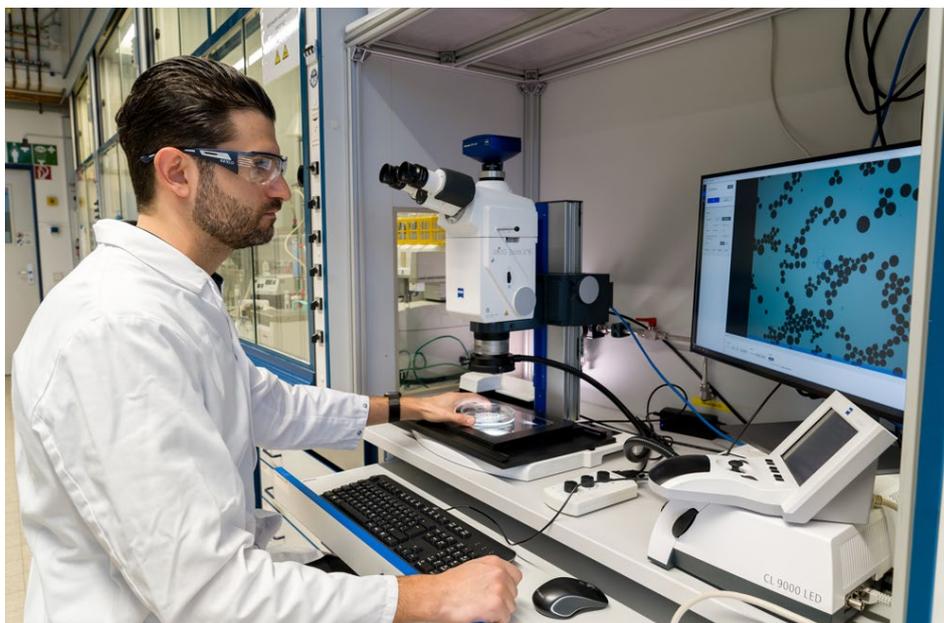
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In order to achieve a high degree of reproducibility and thus quality consistency in Lewatit production, exact compliance with the reaction parameters is crucial. For this reason, the relevant process steps are largely automated. The quality control laboratory of LANXESS's Liquid Purification Technologies business unit verifies the ion exchange and adsorber resins according to their specification during production.

Photo: LANXESS

LANXESS is a leading specialty chemicals company with sales of EUR 8.1 billion in 2022. The company currently has about 13,100 employees in 33 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives and consumer protection products. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

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Information for editors:

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You can find further information concerning LANXESS chemistry at <http://lanxess.com/en/Media/Stories>

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