



Boehringer Ingelheim BioXcellence™

Boehringer Ingelheim BioXcellence™  
welcomes your inquiries, questions  
and feedback



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## Fill & Finish

Your world class biopharmaceutical  
contract manufacturer

## Put our experience inside your product

### Primary Packaging Components.

Packaging components are selected specifically to fulfill the needs of the formulated protein, to care for user convenience as well as to meet medical and marketing needs. Our packaging experts focus on optimizing existing components and on developing new packaging in close collaboration with our suppliers. We also offer testing of the compatibility and stability of formulations and packaging.

### Secondary Packaging

For the products filled at Boehringer Ingelheim we offer packaging that is optimized for biologics, e.g. both small batches (e.g. < 100 packages per order) and large batches (e.g. > 5,000 packages per order). We serve assembly of innovative application forms like pens and autoinjectors, or the combination of lyo vials, solvent syringes and adapters to complex packages.

Maintaining and tracking cold chain conditions in the course of manufacturing operations and during shipment and transportation is key for our sensitive biologic products.

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January 2015



# Producing Value.



Boehringer Ingelheim offers to its customers the entire manufacturing chain tailored to the specific requirements of their biopharmaceutical products. This comprises aseptic filling, lyophilisation, visual inspection, labeling and secondary packaging. Within our global manufacturing network we can supply different dosage forms such as liquid or lyophilized preparations in vials and technically more complex dosage forms such as prefilled syringes and single or dual-chamber devices. Products manufactured on our modern filling lines are approved by the European EMA, the U.S. Food and Drug Administration (FDA), the Japanese Ministry of Health, Labour and Welfare (MHLW) and many other authorities.

## Reliable services

### Features of our facilities:

- Six aseptic filling suites following a modular facility concept that allows high flexibility and a broad product spectrum of services
- Filling suites either in RABS or isolator technology, filling volume is flexible between:
  - 0.5 mL to 100 mL for vials
  - 0.5 mL to 10 mL for glass or plastic syringes
  - 0.5 mL to 3 mL for single-chamber cartridges
  - For dual-chamber devices the volumes range from 2 x 1 mL or 2 x 1.5 mL up to a format of 2.0 x 5.3 mL
- Eight freeze-drier capacities are available (1 x 7 m<sup>2</sup>, 3 x 22 m<sup>2</sup>, 2 x 26 m<sup>2</sup>)
- Lot sizes can range from 3,000–150,000 units depending on format and product needs
- Visual inspection is performed as a 100 % control, process includes camera and manual controls
- Electronic batch record and the barcode-controlled application of material and equipment

## Expect more

Our services offered include applicable IPC and QC testing, selection and optimization of appropriate primary packaging such as vials, pre-filled syringes and cartridges, as well as development of application systems. We provide a comprehensive set of flexible options to meet the specific needs of your biopharmaceutical molecule on its way to becoming a drug product.

### Dosage Forms

Boehringer Ingelheim offers sophisticated pre-formulation, formulation and pharmaceutical process development. Our dosage form portfolio is combined with state-of-the-art application systems :

- Solutions
- Highly concentrated liquid formulations
- Suspensions
- Lyophilized powders