

## Vetter service divisions

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At **Vetter Development Service (VDS)**, we partner with our clients from preclinical development through Phase III. Because we plan for commercial production from a product's earliest stages, we develop processes that mirror those at our commercial production facilities. That enables seamless product transfer at Phase III to Vetter Commercial Manufacturing for scale-up and large-scale production.

With a growing need for early-stage support in North America, we expanded Vetter Development Service to Chicago, Vetter's first U.S. facility. Vetter Development Service provides:

- Scientific expertise, to meet the challenges posed by highly complex and sensitive drugs
- Extensive experience with biologics and other complex compounds, including monoclonal antibodies, peptides, interferons and vaccines
- Expert, peer-to-peer project management
- Long-term strategies to help save time and costs from development through commercial manufacture



**Vetter Commercial Manufacturing** provides Phase III clinical manufacturing through global market supply, featuring:

- State-of-the-art equipment and facilities
- Integrated software to monitor quality and track regulatory data across all production sites
- Process optimization program staffed by Six Sigma team members certified as black, green, and yellow belts

To strengthen security of supply, we take active steps both downstream and upstream to maintain the integrity of the supply chain, including regular quality reviews of all suppliers and cross-linked IT systems to monitor manufacturing processes. Vetter manufactures products for the top 10 pharma/biotech firms worldwide.

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**Vetter Packaging Solutions** helps clients match their product with the appropriate drug-delivery system (primary packaging); secondary packaging, such as cartoning or blister packaging; and packaging services, such as pen-system assembly. Moreover, Vetter has created technologies that:

- Increase safety of administering lyophilized (freeze-dried) drugs – the Vetter Lyo-Ject® dual-chamber syringe and V-LK® cartridge; and
- Promote drug safety and integrity – the V-OVS® tamper-evident closure system

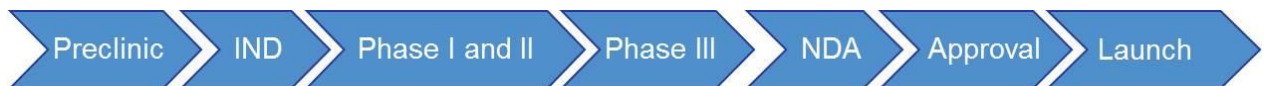
## Seamless interaction throughout a drug's life

### Vetter Development Service

- Formulation support
- Process development
- Clinical trial manufacturing
- Analytical services
- Regulatory support

### Vetter Commercial Manufacturing

- Fill and finish
- Analytical services
- Regulatory support
- Product lifecycle management



### Vetter Packaging Solutions

- Customized packaging development
- Platform technologies
- Specialized technologies
- Packaging services
- Logistic services