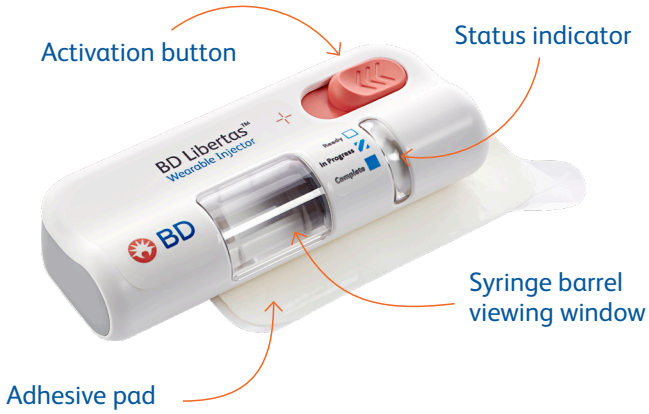
BD solutions for enabling delivery of complex biologics

BD Libertas™ Wearable Injector



BD Libertas™ design features

- Single use, fixed dose, glass syringe barrel primary container
- Dose delivery options: 2-5 mL or 5-10 mL
- Mechanical spring-based power module
- Transparent viewing window for drug and drug delivery visibility
- Color-coded status indicator
- Push button activation
- Pre-attached adhesive pad

Key benefits

BD Libertas™ Wearable Injector is designed to deliver subcutaneous injections of **large volume (2-5 mL or 5-10 mL) and/or high viscosity (up to 50 cP)** fixed dose biologics for the non-acute setting:[1]

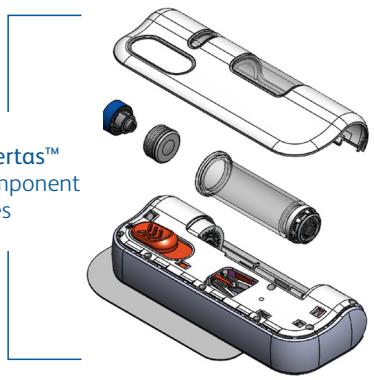
- Designed to be prefilled and ready to use; no patient assembly required[1]
- Enables hands-free drug delivery†[1]
- Features automated needle insertion and passive* needle retraction[1]
- Provides multiple indications of injection status (audible, tactile, visual) throughout the injection process[1,2]

Experience

- BD conducted a **52-subject human clinical trial** with the BD Libertas™ Wearable Injector that evaluated the **performance of the 5 mL device**, including tissue effects, tolerance (pain) and **patient acceptance**[2]
  > 100% of study subjects likely to use if prescribed[2]
- BD has performed multiple market research, generative and formative user studies to inform the design of the BD Libertas™ Wearable Injector

Availability

- Container and device samples available upon request



BD Libertas™
five component
modules

BD

References

† Designed to inject or infuse the drug therapy hands-free once activated.

* Needle retracts automatically upon injection completion without additional user steps

1 Design Input Specification for BD Libertas™ Platform [Internal report]. Franklin Lakes, USA: Becton Dickinson and Company; 2021.

2 Wendy D Woodley, Wen Yue, Didier R Morel, Audrey Lainesse, Ronald J Pettis, & Natasha G Bolick (2020) Clinical Evaluation of an Investigational 5ml Wearable Injector in Healthy Human Subjects, Clinical and Translational Science, DOI: 10.1111/cts.12946

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