

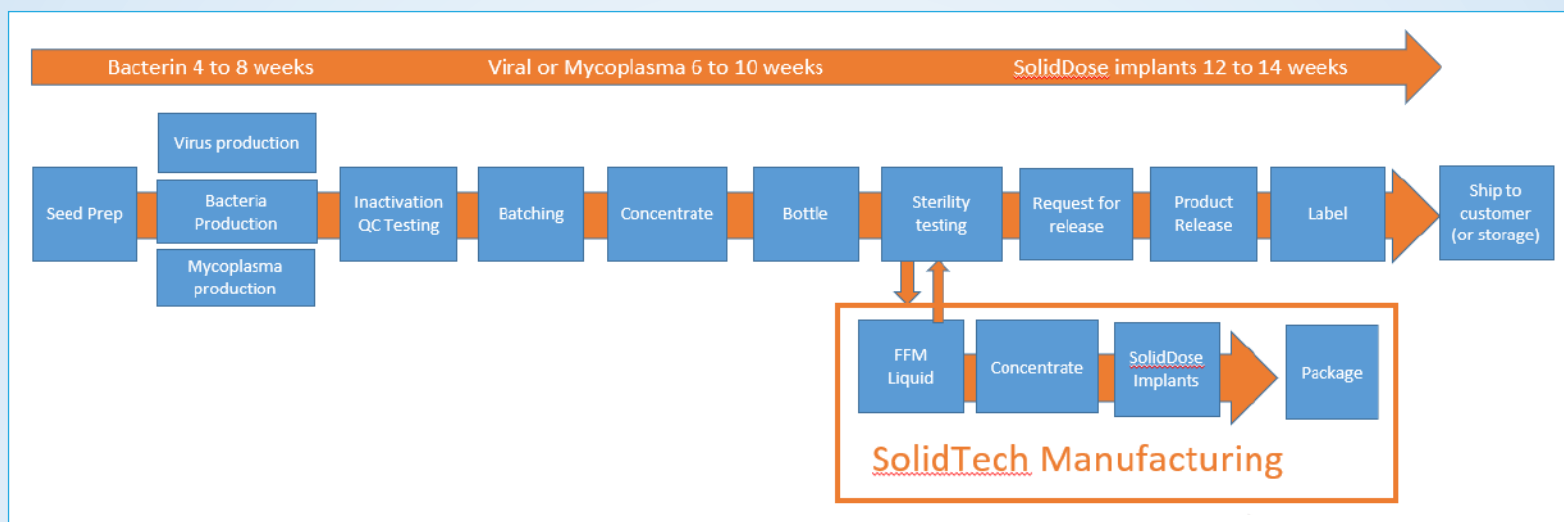
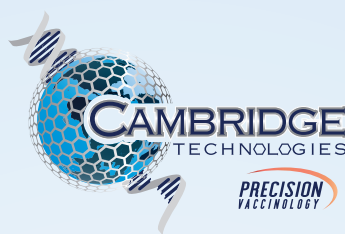
Precise with a Purpose:

Precision Vaccinology from
Cambridge Technologies



CAMBRIDGE
TECHNOLOGIES

PRECISION
VACCINOLOGY



From *Clostridium perfringens* Type A to Influenza D, autogenous vaccines offer veterinarians a targeted response to disease challenges, customized to individual needs in a timely manner.

Autogenous vaccines from Cambridge Technologies are the most **science-driven solution** available to veterinarians today. Even in cases where there is a commercial product available, such as with Pinkeye, differences in causative agents, as well as strain variation, create a need for a customized autogenous solution. The first step in our Precision Vaccinology™ process is an in-depth and detailed diagnostic workup to determine the exact strain(s) of the causative agent(s) affecting the animals.

- ➔ Bacteriology including culture and sensitivity
- ➔ Virus Isolation
- ➔ Full menu of molecular options:
 - Third-generation complete genome sequencing
 - Metagenomics
 - MLST
 - Toxin Typing
 - Multiplex PCR panels for BRD, Pinkeye, Enteric
 - BVD qPCR and PI ID



Building on a comprehensive diagnostic report, our experienced Technical Services veterinarians work with practitioners to build a vaccine that is customized to their specific needs:

- Isolate selection
- Delivery/adjuvant selection
- Label directions
- Dose sizes
- Label color

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Our unique, proprietary SCORE process optimizes the relevant antigens by causing bacteria to express unique core proteins. The result is a more powerful vaccine:

- ✓ Identification
 - Selects and improves expression of surface and cross-reactive antigens for broader coverage
- ✓ Expression
 - Elicits both gram-positive and gram-negative antigen responses
- ✓ Recognition
 - Better antigen expression results in enhanced immune recognition

Unlike commercial products which can take years to license, autogenous biologicals can be formulated, manufactured, tested, and released in a matter of months if not weeks. This **speedy turnaround** enables veterinarians to target the most current disease threats.

The very nature of autogenous products lends itself to great **flexibility** in formulation. Just as disease strains and threats evolve and change over time, an autogenous vaccine from Cambridge Technologies can easily be reformulated to continue mirroring the current situation based on ongoing disease monitoring. We also offer the option of a Superconcentrate formulation in the face of a sudden break.



Customer support is at the foundation of what we do. Our experienced team partners with veterinarians and cattlemen through every step from collecting initial diagnostic samples to ongoing inventory management and forecasting, making the entire process as simple as possible.

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