



Customised Vaccines by Ceva



Autogenous Vaccines - prepared from a pathogen isolated from an animal or group of animals on a specific farm which are then used to protect animals on that farm and other epidemiologically linked holdings.



Ceva ADAPT™ is approved to manufacture autogenous bacterial vaccines for farmed animals, where prevention is better than cure.



Autogenous Vaccines for Ruminants

What are autogenous vaccines?

Autogenous vaccines are vaccines prepared from a pathogen isolated from an animal or group of animals on a specific farm which are then used to protect animals on that farm and other epidemiologically linked holdings. They can be produced relatively quickly with minimal vet input.

When to consider autogenous vaccines

- When no licensed vaccines are available to control diagnosed disease
- To support reduction of anti-microbial use and antibiotic-free programmes
- To support food safety programmes, e.g. fighting Salmonella spp. infection
- To fight against infection caused by multi-drug resistant bacteria
- To provide vaccination against emerging diseases

When can they be used?

- When there is no approved commercially available vaccine for the specific pathogen or strain of pathogen
- When the strain on farm differs slightly to the commercial vaccine
- When the use of commercially available vaccines are not controlling the disease subsequently impacting on animal health to an unsatisfactory level, despite vaccination
- When a licensed vaccine does not contain the appropriate antigen
- When the commercial vaccine is unavailable

In all situations these must be prescribed by the veterinary surgeon responsible for the animals, and used under the veterinary medicine cascade system.

How are autogenous vaccines used?

These vaccines must always be used on the source premises or epidemiologically linked holdings. They can be used in different ways to meet the varying situations seen on farm, depending upon the rearing systems and presentations of clinical disease:

- For the animals present in the unit where disease, caused by the pathogen(s), was diagnosed.
- For the animals before they enter into the unit where the disease is present.
- For the dams of the animals that are under threat so the progeny can be protected through passive immunity, to decrease vertical transmission of the pathogen(s) and to prevent early age infections.

Available for a range of species



Target species include

- Aquaculture
- Cattle
- Sheep
- Goats
- Pigs
- Game birds
- Avian species

Ceva ADAPT™ autogenous vaccines are produced by Ceva owned Ridgeway Biologicals Ltd, located in Compton, UK.

Ceva produce autogenous vaccines in seven locations globally, working together to support vets with unique vaccine solutions.



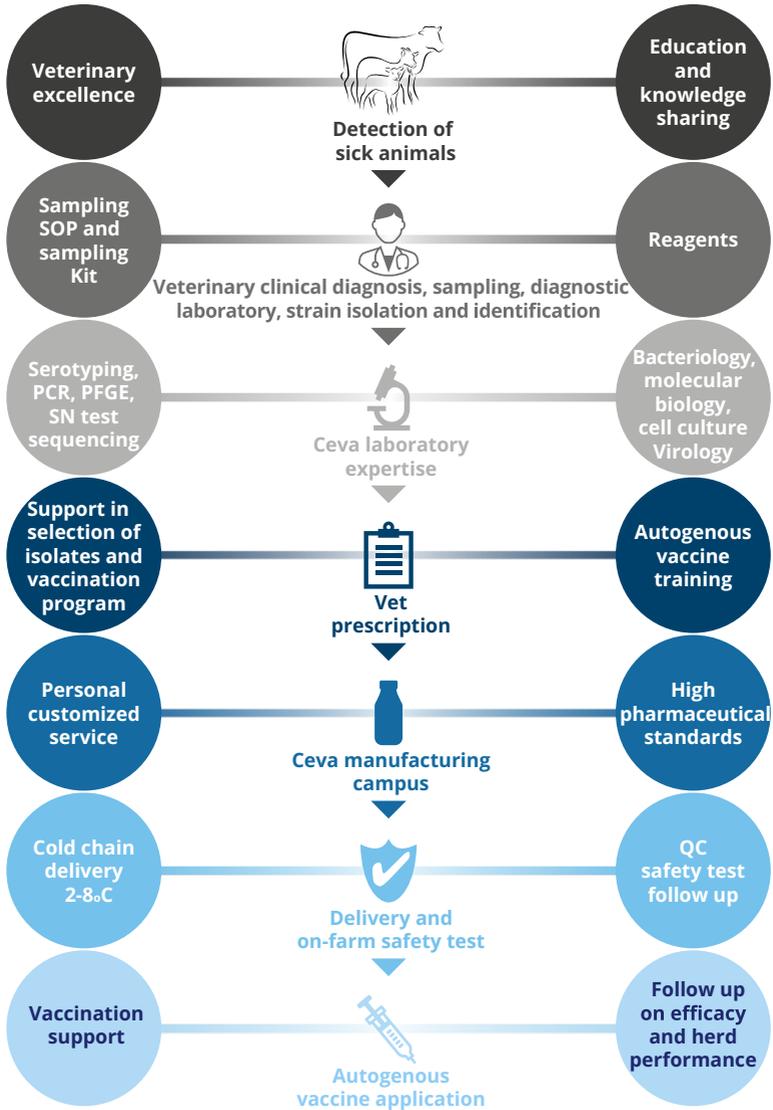
Ceva ADAPT™ Scientific Services

Isolation and identification of a wide range of bacterial species including:

- *Pasteurella multocida* pneumonia
- *Salmonella species* enteritis/abortion
- *E.coli sp.* Extended-Spectrum Beta Lactamases (ESBLs)
- *Campylobacter fetus*
- *Staph aureus/Strep uberis*
- *Corynebacterium pseudotuberculosis*
- *Caseus lymphadenitis*
- *Staph aureus/hyicus* dermatitis
- *Mycoplasma species*

Mono and multivalent vaccine capability for use under the veterinary cascade system.

The process of autogenous vaccines production



Ceva ADAPT™ autogenous vaccines testing



Autogenous vaccines produced by Ceva at the Ridgeway laboratory are only released after undergoing a rigorous set of quality tests to ensure sterility and safety. This includes an on farm safety test.



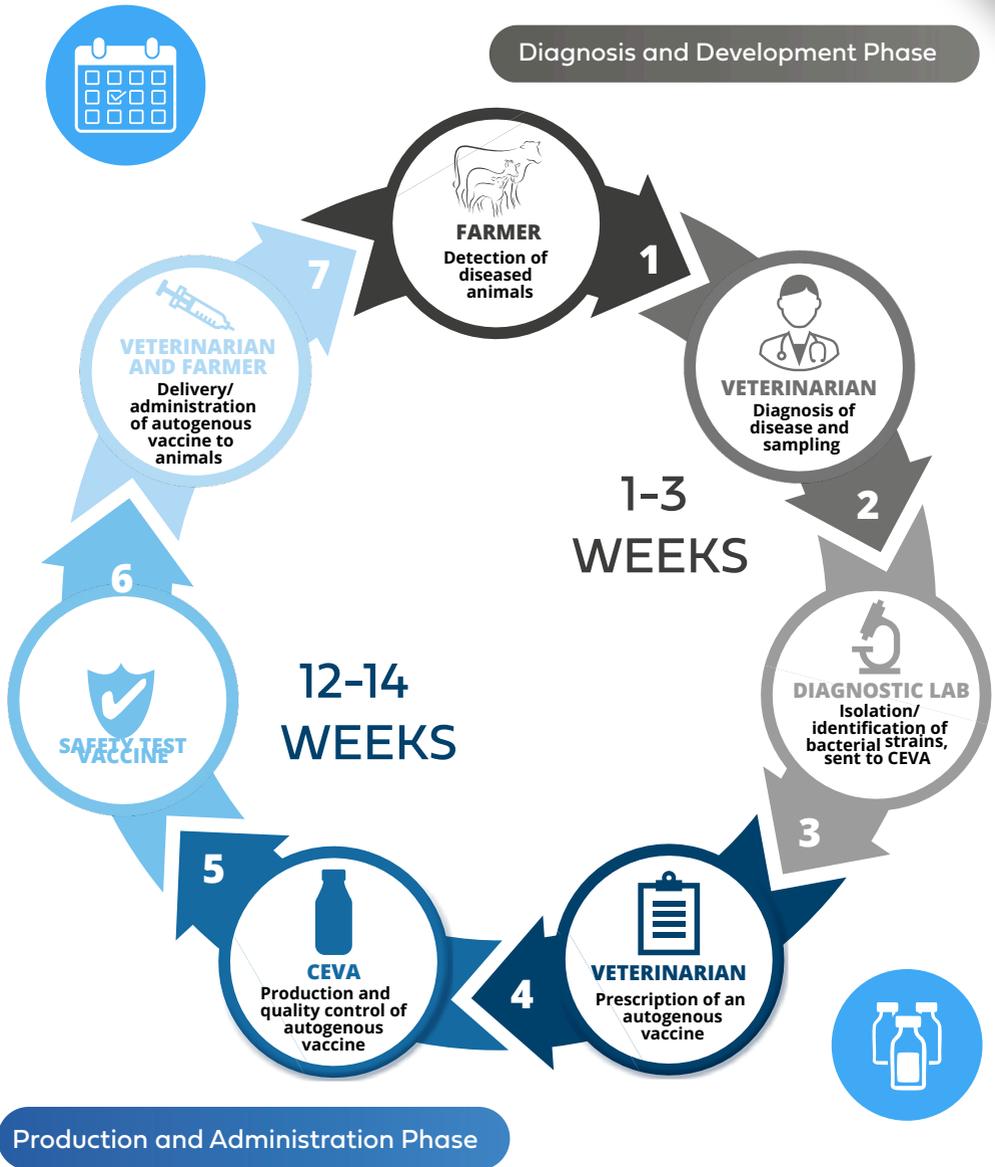
Farm safety test

Vaccine samples will be supplied to allow this test to be undertaken under the supervision of the prescribing vet on the farm where the product is destined to be used.

Specific test protocols will be supplied according to the prescribed vaccine dosage and programme.



The timeline of autogenous vaccines production





www.ceva.com

Please contact your Ceva Veterinary
Advisor to discuss Ceva Adapt™ services
and autogenous vaccine orders.

Ceva ADAPT™ autogenous vaccines are produced by Ceva owned
Ridgeway Biologicals Ltd in the UK.

Ridgeway Biologicals Ltd is licensed to manufacture autogenous vaccines
which are veterinary prescription only medicines.

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