



# Elanco Autogenous Vaccine Guide



*AviPro*<sup>®</sup>  
Autogenous

**Elanco**<sup>™</sup>

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## Elanco autogenous vaccines

### The answer to your unique disease challenges

Elanco's extensive experience and expertise in animal health allow us to supply the industry with a wide range of autogenous biological vaccines. By understanding customers' challenges, we help provide the best customized solutions.

#### What is an autogenous vaccine?

An autogenous vaccine is made from bacterial or viral isolates obtained from a herd. The inactivated vaccine is then custom-made to the specifications of the customer.

#### Why shouldn't I just use commercial vaccines?

Specific strains of organisms may have antigenic variations not recognized by the immunity elicited by commercially prepared products, leaving animals inadequately protected.

#### Can autogenous vaccines protect against emerging viruses?

Newly discovered variants may not have been incorporated in a commercial product, so the autogenous route allows for a more rapid, customized response.

#### Are there regulations regarding the use of autogenous vaccines?

Autogenous vaccines are regulated under the same U.S. Department of Agriculture (USDA) standards for safety and purity as a commercial vaccine is. Additionally, any autogenous vaccine use requires written approval from the state veterinarian.

#### What are Elanco's autogenous capabilities?

Elanco has a long history of autogenous vaccine production at our Winslow, Maine, facility, where many employees have decades of autogenous experience. Elanco's state-of-the-art facility, completely separate from commercial manufacturing, was updated in 2015 and again in 2020.

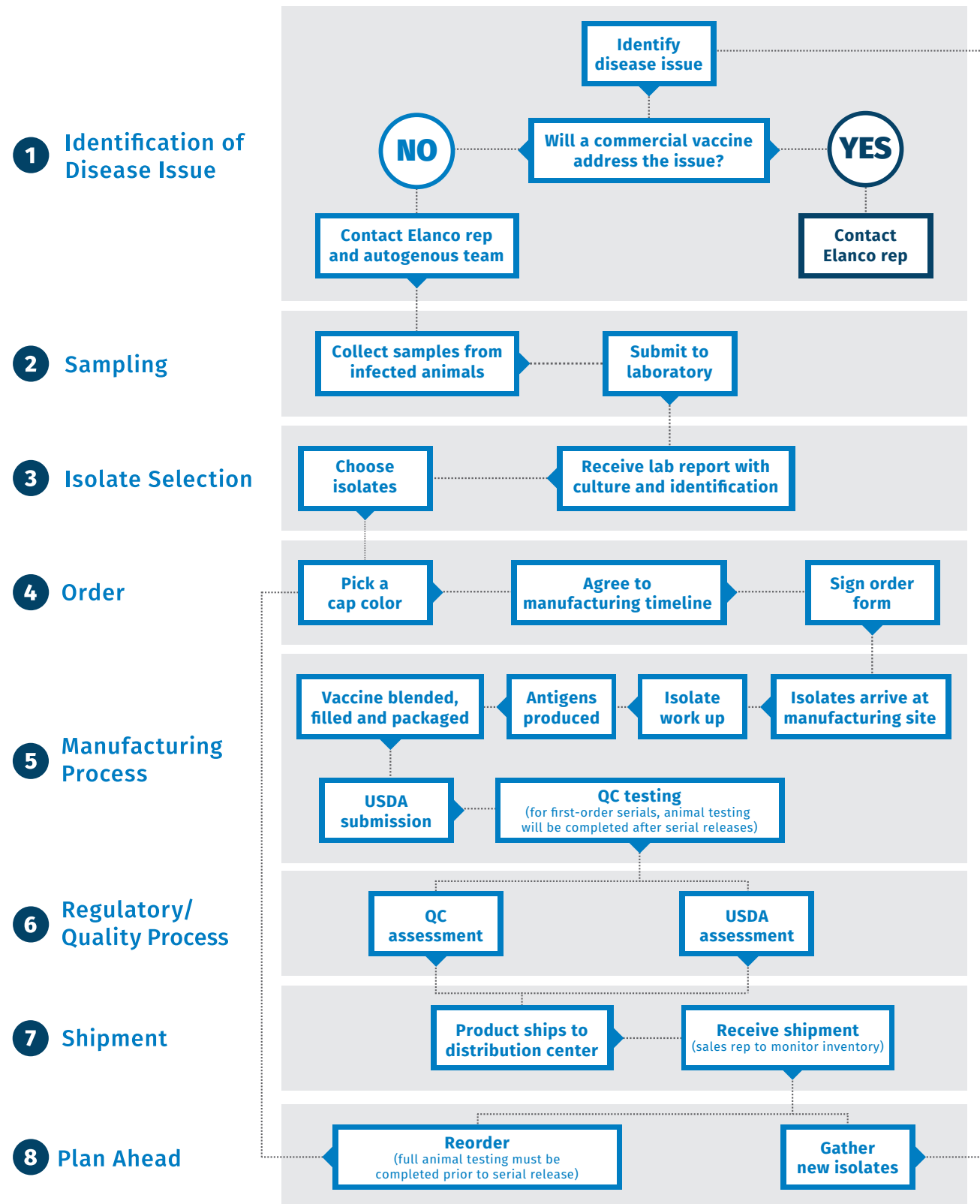
#### How can I implement autogenous vaccines in my operation?

Autogenous vaccines are available for layers, broiler breeders, turkeys, swine and fish. Talk to your local Elanco representative for more information on how you can help protect your animals with customized autogenous vaccine solutions.



# Autogenous vaccine production process

This diagram shows the steps, from identifying the disease to receiving shipment of autogenous vaccines.



# Common organisms addressed by autogenous vaccines

Below are some of the most common viruses and bacteria that are addressed by autogenous vaccines.

**For organisms not listed, ask your Elanco sales representative. This list is not inclusive.**



## Poultry

Viruses	Bacteria
Adenovirus	Avibacterium (Coryza)
Reovirus	E. Coli
Paramyxovirus	Gallibacterium
Bursal Disease	Ornithobacterium rhinotracheale (ORT)
Newcastle Disease <small>Turkeys only, lentogenic strains only</small>	Salmonella
Astrovirus	Erysipaleaux
	P. Multocida (Cholera)



## Swine

Viruses
Swine Influenza Virus
Bacteria
Streptococcus suis



## Fish

Ask your sales representative.

# Cap color options



Yellow



Turquoise



Grey



Green



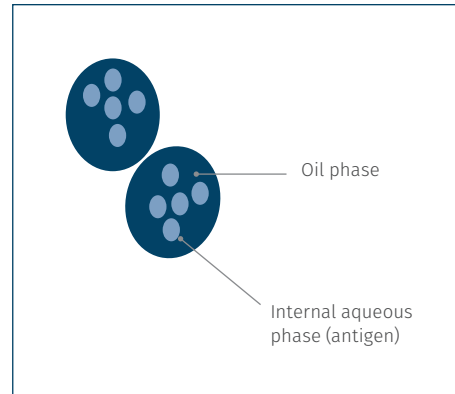
Olive Green



Rose

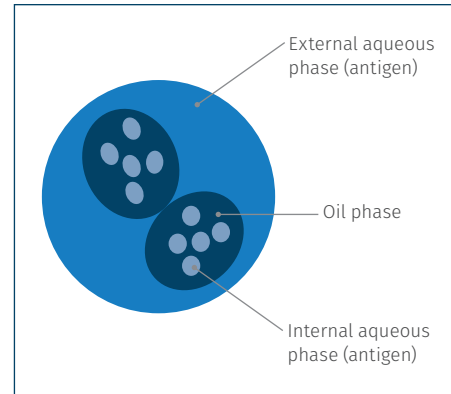
## Emulsion options

Elanco offers various emulsions to allow you to select what's best for your specific needs.



### Water-Oil

Commonly used for viral vaccines to balance the duration of immunity with animal reactivity



### Water-Oil-Water

Commonly used for bacterial vaccines to balance duration of immunity with animal reactivity; uses aluminum hydroxide in outer second phase to reduce reactivity



## AviPro® Autogenous Focus

### Elanco's *Salmonella* isolate analysis service for poultry

Get detailed scientific analysis that helps you make informed decisions about the strains you choose to include in your AviPro® Autogenous *Salmonella* vaccine on qualifying orders.

Deciding what *Salmonella* types to use in your autogenous vaccine can be a daunting task that shouldn't come down to guesswork. Our service — Autogenous Focus — channels Elanco's scientific power to help you decide which *Salmonella* isolates to use to maximize the success of your AviPro Autogenous *Salmonella* vaccine. Autogenous Focus delivers customized technical consultation and analytical insights on isolate candidates based on your current strategy and challenges.

#### Here's how it works:



You send samples collected from your operation to the diagnostic lab of your choice.



Isolates are sent to a designated analytical lab to identify immunodominant antigens.



You receive a detailed report on each *Salmonella* isolate submitted to the analytical lab.



Isolates you select are provided to Elanco's manufacturing facility in Winslow, Maine, to create your AviPro Autogenous *Salmonella* vaccine.

Contact your Elanco representative for more information.

## Autogenous key terms and glossary

**Adjacent herd:** a group of animals that are physically contiguous with the herd of origin; no other herds exist between the adjacent herd and the original herd

**Adjuvant:** a substance which enhances the body's immune response to antigen

**Antigen:** a toxin or foreign substance which induces an immune response in the body, especially the production of antibodies

**Emulsion:** a dispersion of droplets in liquid

**Epidemiological link:** a connection between companies through incidence, distribution and control of disease

**Extension beyond 24 months:** the Center for Veterinary Biologics allows for use of isolates beyond 24 months following guidance outlined in VSM 800.69

**Isolates:** an extract in pure form used to produce a vaccine. Isolates traditionally expire 15 months from the date of isolates and can be extended to 60 months from the date of isolate as per 9CFR 113.113(a)(4). Elanco does not take ownership of your isolates; we believe you as the customer maintain the rightful ownership of those organisms.

**Standard batch:** serials of product from 1,000 bottles to 8,000 bottles

**Non-adjacent herd:** all herds other than the herd of origin or adjacent herd

**Secondary release:** autogenous product released after animal testing is completed, after a Form 2008 is submitted to the USDA and the USDA releases the product

**Three-day release:** autogenous product released after made with isolates used for the first time after a 3-day safety test is satisfactory. Animal testing is continued after release

**What isolates can be combined in an autogenous vaccine?** Elanco holds licenses to produce bacterial autogenous vaccines, viral autogenous vaccines and a combination autogenous vaccine of bacterial and viral. Elanco will work with you to determine your needs, the number of isolates to include in your product and what works best with your emulsion choice.

FOR ALL PRODUCTS: The label contains complete use information, including cautions and warnings. Always read, understand and follow the label and directions for use.

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