

# YEAR-ROUND PROTECTION



**AGAINST PASTEURELLA  
& CLOSTRIDIAL DISEASES**



**MSD**  
Animal Health

# REPLACEMENTS

## Heptavac<sup>®</sup>-P *plus*

### Preparation for lambing starts here

Give all replacement ewes (and new rams) two 2ml doses, 4-6 weeks apart, when they join the flock. This brings all the adult sheep in the flock to a standardised level of immunity.

Vaccinating replacements twice on arrival helps to minimise loss of valuable stock.

It also ensures that they only need a single booster dose pre-lambing (see next page for details).



**Two 2ml doses**

**4-6 WEEKS APART**

# PRE-LAMBING

## Heptavac-P<sup>®</sup> plus

### Protecting your lamb crop

Give ewes an annual booster vaccination of Heptavac-P Plus 4-6 weeks pre-lambing. Rams and shearlings previously vaccinated should also receive a single annual booster dose at this time.

This not only maintains the ewe's immunity throughout the year, but also ensures that she passes on high levels of antibodies to her lambs via the colostrum, protecting them in the first weeks of life.



**Single 2ml booster**

**4-6 WEEKS BEFORE LAMBING**

# GROWING LAMBS

## Ovivac<sup>®</sup>-P *plus*

### A good start deserves a good finish

Lambs can succumb to pasteurella and clostridial diseases within hours, often with no warning signs of disease outbreak. Even surviving lambs may fail to thrive to required standards.

To protect your lambs, give two 2ml doses of Ovivac-P Plus 4-6 weeks apart, starting from as early as three weeks of age. The first dose is a primer, while the second produces effective immunity. Animals that were started on Ovivac-P Plus and are then kept for breeding, should receive the full two dose course of Heptavac-P Plus.



**Two 2ml doses**

**4-6 WEEKS APART FROM 3 WEEKS OF AGE**

# COMPREHENSIVE PROTECTION FOR YOUR FLOCK



-  **Pasteurella** 
-  **Tetanus** 
-  **Braxy** 
-  **Blackleg** 
-  **Lamb dysentery**
-  **Black disease**
-  **Struck**
-  **Clostridial metritis**
-  **Pulpy kidney** 

Use medicines responsibly.

For more information visit [www.noah.uk/responsible](http://www.noah.uk/responsible)

**Heptavac-P Plus** is only available via your animal prescriber or veterinary surgeon from whom advice should be sought. ®Registered trademark. Heptavac-P Plus contains antigens for the active immunisation of sheep against seven clostridial species and the most important serotypes of *Mannheimia (Pasteurella) haemolytica* and *Bibersteinia (Pasteurella) trehalosi*. Legal category POM-VPS. Heptavac-P Plus is the property of Intervet International B.V. or affiliated companies or licensors and is protected by copyrights, trademark and other intellectual property laws.

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# PASTEURELLA diseases

INFECTION	CLINICAL SIGNS
Pasteurellosis from rapid multiplication of the bacterium <b><i>Mannheimia haemolytica</i></b> (previously <i>Pasteurella haemolytica</i> ) and <b><i>Bibersteinia trehalosi</i></b> (previously <i>Pasteurella trehalosi</i> ).	Sudden-onset pneumonia which is frequently fatal. Generalised disease which is sudden and usually fatal in store lambs in the autumn.

# CLOSTRIDIAL diseases

DISEASE	DESCRIPTION
<b>Lamb dysentery</b>	Lambs lose appetite, lie away from their mothers, may develop blood-stained scour. Death within 2 hours to 3 days from onset.
<b>Pulpy kidney</b>	Ataxia (staggering), collapse, convulsions. Lambs are usually found dead.
<b>Struck</b>	Abdominal pain, lethargy, convulsions. Animal usually found dead.
<b>Tetanus</b>	Incubation period varies from a few days to several weeks. Initial stiffness then fine muscle tremor. Death usually from respiratory failure – often following bloat – 3 to 4 days after onset.
<b>Blackleg</b>	Symptoms vary depending on site of infection. If damaged muscle invaded, weakness is followed by rapid death.
<b>Black disease</b>	Lethargy, failure to get up, rapid breathing, sudden 'quiet' death. Darkened areas of skin develop rapidly after death.
<b>Braxy</b>	Lethargy, separation from the flock, collapse, coma, sudden death.

# Immunity

## What it is and how it works

Vaccines contain inactivated elements of diseases in order to stimulate the animal's immune system to produce the antibodies to tackle that disease.

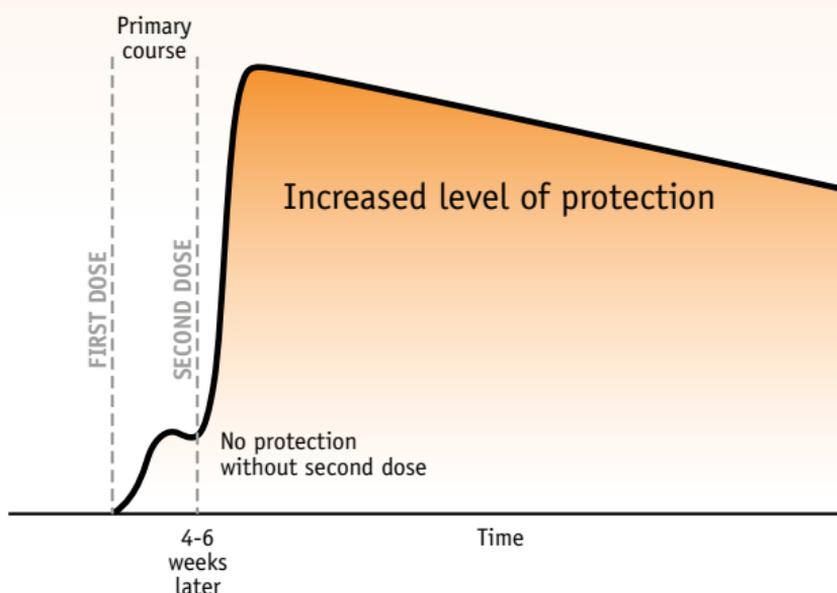
Vaccination means that sheep are able to effectively fight off potential infections and remain healthy. Ewes pass on immunity to their lambs via the colostrum, but this natural immunity only lasts for a matter of weeks.

## Giving two doses

### Why starting with two doses is essential for protection

For lambs and replacements, a course of two doses is necessary to reach maximum levels of protection. The first is a primer or sensitising dose, while the second is needed to prompt effective immunity.

Once an animal has received an initial course of two doses of Heptavac-P Plus, a single booster is needed within 12 months – each and every year thereafter.



# A JOB THAT'S WORTH DOING RIGHT ✓

- **Pasteurella** and **clostridial** infections can strike any flock, without warning
- The majority of cases are fatal and can lead to major economic losses
- The first sign is often dead sheep – when it's already too late to act

A planned approach to vaccination helps keep your losses to a minimum



Part of the **P plus** system



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