



THE FEEL GOOD VACCINE

Nuplura PH+5 is the first refined BRD vaccine that doesn't add to the endotoxin load, providing smooth protection that is easy on cattle with minimal reactivity.

Elanco

NUPLURA™ PH™

+5

FAST + STRONG

- NUPLURA PH+5 provides protective immunity in as few as 10 days after vaccination
- Fast and strong protection can be used prior to and during periods of elevated stress such as changes in weather, weaning, branding, shipping and commingling

POWERFUL + ADVANCED

- Demonstrated a significant reduction in lung lesions from 21.69% in the control group to 6.82% in the NUPLURA PH+5 group⁴
- Combines two powerful virulence factors for strong and effective protection:

Recombinant technology results in consistently high levels of pure leukotoxin in every dose.



Purified outer membrane proteins reduce the endotoxin load, allowing for minimal adverse reactions like fevers, sweats and other adverse events.

EASY + SAFE

- Safe and gentle^{2*} on calves as young as 28 days—calves can stay on-feed, and have minimal sweats and other setbacks³
- Combines the ease of NUPLURA PH with the powerful protection of Titanium[®] for a smooth, visible difference with minimal swelling at injection sites³

FLEXIBLE + CONVENIENT

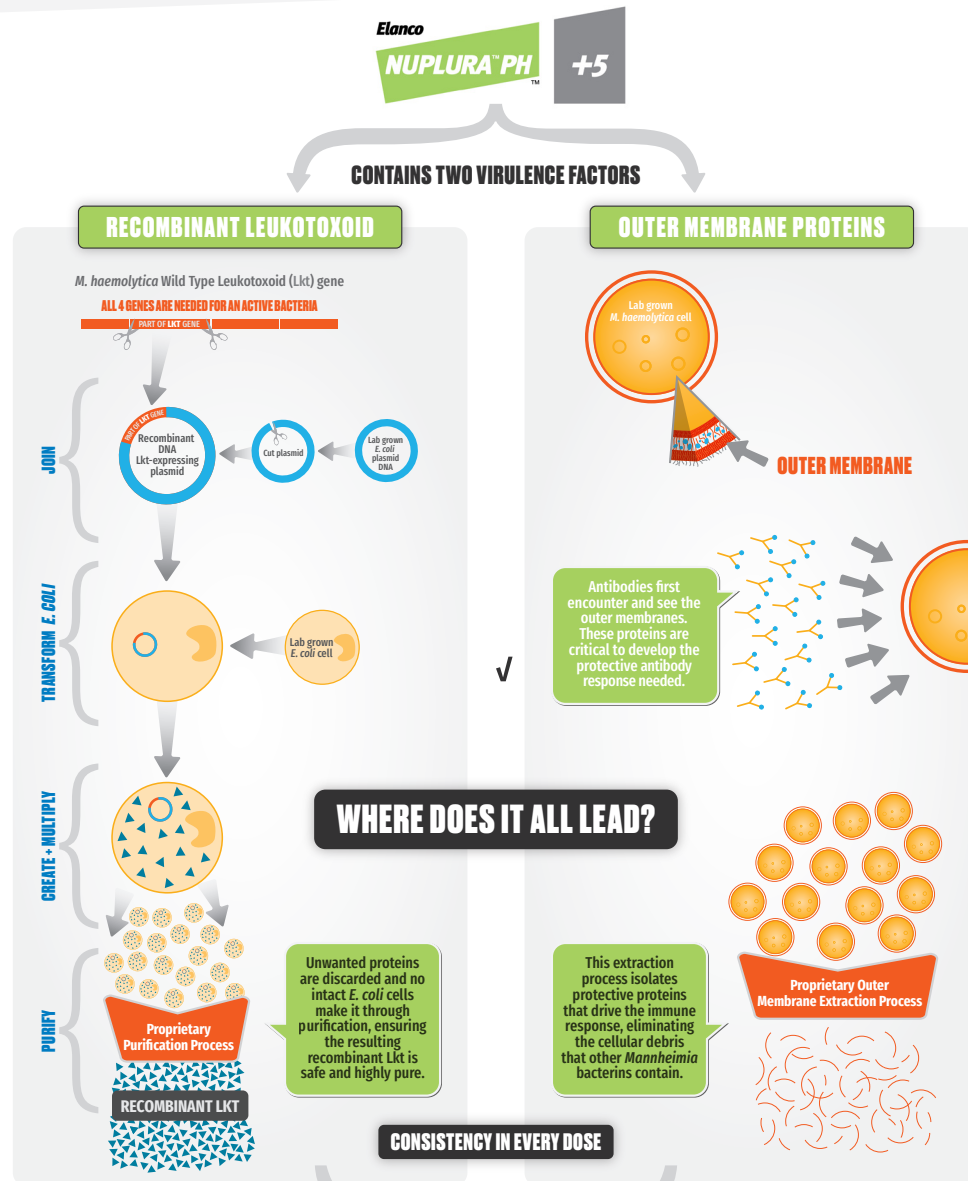
NUPLURA PH+5 offers options for BRD prevention in one vaccine, meaning less stress on the animal and less labor and time to administer

COMPREHENSIVE PROTECTION

NUPLURA PH+5 delivers additional protection against IBR, BVD (Types 1 and 2), BRSV and PI3.

THE DUAL DEFENSE DIFFERENCE

The advanced molecular science behind NUPLURA® PH can be complex, but the difference is clear. NUPLURA PH is the only *Mannheimia haemolytica* and BRD prevention vaccine that uses recombinant technology and outer membrane proteins (OMPs)—two virulence factors for protection by advanced technology. The result is fast, smooth protection against BRD that's easy on cattle with minimal reactivity.¹



DELIVER THE RIGHT PROTECTION WHEN IT MATTERS MOST

Combination	Bacteria		Modified Live Virus			
	<i>M. haemolytica</i>	BVD Type 1	BVD Type 2	IBR	BRSV	PI ₁
NUPLURA PH	✓					
NUPLURA PH + Now Available						
Nuplura PH+5	✓	✓	✓	✓	✓	✓



FAST + EASY + POWERFUL + FLEXIBLE

To learn more about NUPLURA PH vaccines, visit NUPLURA.COM

* This study was conducted with NUPLURA PH; lack of interference with *M. haemolytica* immunity has been demonstrated with NUPLURA PH +;
 1 Brooks KR, Raper KC, Ward CE, Holland BP, Krehbiel, CR, Step DL. Economic Effects of Bovine Respiratory Disease on Feedlot Cattle During Backgrounding and Finishing Phases. Oklahoma Agricultural Extension Station Publication P-1027, Oklahoma State University.
 2 Elanco Animal Health. Data on file.
 3 Elanco Animal Health. Data on file.
 4 Elanco Animal Health. Data on file.
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