

AT-A-GLANCE

PRODUCT SUMMARY



NUPLURA[®] PH

NUPLURA[®] PH is the first-ever pneumonia vaccine developed for cattle in the U.S. market using recombinant technology, which means you're getting the purest antigen form available.

FASTEST — The only *Mannheimia (Pasteurella) haemolytica* vaccine demonstrated to deliver immunity in 10 days!¹

SMOOTH — The unique formulation and recombinant technology allows NUPLURA PH to be gentle on calves, with minimal reactivity post-vaccination as measured by injection site reaction.² Safety has been demonstrated in calves 28 days of age or older.²

CONVENIENT — NUPLURA PH can be used along with Arsenal[®], BRD Shield[®], Master Guard[®], Titanium[®] or Vira Shield[®] for comprehensive respiratory disease protection.



M. haemolytica is the bacteria most frequently isolated from pneumonic lungs and compounds the severity of other BRD complex diseases.³

VACCINATION GUIDELINES & LABEL DIRECTIONS

EASE OF APPLICATION: NUPLURA PH does not require mixing or reconstituting. The low-volume dosage of 2 mL is convenient to administer subcutaneously in the neck, following Beef Quality Assurance guidelines.

ADJUVANT: Emulsigen[®] D

DIRECTIONS: Shake well before using. Administer a 2 mL dose subcutaneously in the neck following Beef Quality Assurance guidelines. A single dose demonstrated protective immunity as early as 10 days after administration. A booster dose can be administered prior to periods of stress or elevated risk of exposure. Safety has been demonstrated in calves 28 days of age and older. Consult your veterinarian about revaccination intervals.

PRECAUTIONS: Store out of direct sunlight at 2°–7°C (35°–45°F). DO NOT FREEZE. Use entire contents when first opened. Do not vaccinate within 60 days before slaughter. Transient injection site swelling may occur. In case of anaphylactic reaction, treat with epinephrine. Contains thimerosal and gentamicin as preservatives.

The label contains complete use information, including cautions and warnings. Always read, understand and follow the label and use directions.

¹Data on file, USDA. Study 08NAHLW8130v.

²Data on file, USDA. Study 09NAHLW8156v.

³Irsik MB. Bovine respiratory disease associated with *Mannheimia haemolytica* or *Pasteurella multocida*. Institute of Food and Agricultural Sciences Publication VM-163, University of Florida. Available at: <http://edis.ifas.ufl.edu/vm118>. Accessed June 7, 2012.

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