

# Nasalgen® IP



## NASALGEN® IP

For the veterinarian and producer looking for immediate immunity protection of day-old calves, pregnant cows/heifers, and nursing calves, Nasalgen IP is proven to stimulate a rapid response, with an onset of immunity as early as 48 hours, and it continues to protect cattle for up to 14 months.<sup>1</sup>

PRODUCT	Presentations	Dose	Route of Administration	IBR	PI <sub>3</sub>
Nasalgen IP	10 dose 50 dose	2 mL	IN*	X	X

\*Intranasal administration

## PRODUCT FEATURES

- Safe in all classes of cattle including day-old calves, pregnant cows/heifers, and nursing calves
- Provides rapid onset of protection
- 14-month Duration of Immunity (DOI) for IBR<sup>2</sup>
- Stimulates interferon response providing nonspecific antiviral activity to aid in protection against a variety of airborne pathogens
- Stimulates local production of antibodies at the site where infectious pathogens enter the respiratory system – the mucosal lining of the nasal cavity
- Stimulates active immunity in the face of maternal antibodies<sup>2,3</sup>
- No temperature sensitivity issues that would negatively impact replication once administered to cattle<sup>4</sup>

<sup>1</sup>Interferon in Nasal Secretions and Sera of Calves After Intranasal Administration of Avirulent Infectious Bovine Rhinotracheitis Virus: Association of Interferon in Nasal Secretions with Early Resistance to Challenge with Virulent Virus” American Society for Microbiology. *Infection and Immunity*, May 1972, p 699-706.

<sup>2</sup>Hyland S. “Comparison of Two Strains of Infectious Bovine Rhinotracheitis Virus: Biological Effects in Neonatal Calves and Antigenic Comparison by Radioimmune Comparison Assay,” doctoral thesis, University of Wisconsin, Madison, 1978.

<sup>3</sup>Ellis JA, Gow SP, Goji N. (2010) Response to experimentally induced infection with bovine respiratory syncytial virus following intranasal vaccination of seropositive and seronegative calves. *JAVMA* 236(9): 991-999.

<sup>4</sup>Grissett GP, White BJ, Anderson DE, Larson RE, Miesner MD. (2014) Effect of ambient temperature on viral replication and serum antibody titers following administration of a commercial intranasal modified-live infectious bovine rhinotracheitis-parainfluenza -3 vaccine to beef cattle housed in high- and moderate-ambient temperature environments. *AJVR*, 75(12): 1076-1082.

## PRODUCT RESOURCES

## STOCKING CODE

Nasalgen Technical Summary	BV-NAS-57090
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