



Nasalgen[®]3-PMH

The color of unmatched protection.

The first and only intranasal BRD vaccine against viral and bacterial pneumonia.

NASALGEN[®]3-PMH is the first intranasal vaccine that effectively protects beef and dairy cattle against five major causes of respiratory disease in one dose:

- Bovine respiratory syncytial virus (BRSV)
- Infectious bovine rhinotracheitis (IBR)
- Parainfluenza 3 (PI₃)
- *Pasteurella multocida*
- *Mannheimia haemolytica*

Easy to administer.

- Eliminates the need and stress of two separate vaccines
- Single 2 mL dose in one nostril

Unique blue shadow for confident administration.

- Avoid missing calves or double-dosing

Duration of immunity (DOI).

- 11 weeks: BRSV
- Six and a half months: IBR
- Three months: PI₃
- Four months: *P. multocida*, *M. haemolytica*

Mounts strong, early response for powerful, long-lasting protection.

- Mimics natural exposure to the most common causes of pneumonia for an effective immune response

No injection site reactions.

- Helps your operation meet Beef Quality Assurance standards

NASALGEN 3-PMH: The one and only.

- Designed with an IBR that is not temperature-sensitive, ensuring the vaccine will replicate and protect in any situation¹
- Proven safe in pregnant cows and in calves nursing pregnant cows building a strong foundation for disease protection.



¹Grissett GP, et al. Effect of Ambient Temperature on Viral Replication and Serum Antibody Titers Following Administration of a Commercial Intranasal Modified-Live Infectious Bovine Rhinotracheitis-Parainfluenza-3 Virus Vaccine to Beef Cattle Housed in High- and Moderate-Ambient Temperature Environments. *Am J Vet Res.* 2014;75(12):1076-1082.