

VISTA® REPRODUCTION VACCINES

Vista 3 VL5 SQ | Vista 5 L5 SQ | Vista VL5 SQ

For the veterinarian and producer looking to strengthen the immune system of their breeding females to better prepare them for the challenges that lie ahead while also setting the next calf crop up for success, reach for Vista vaccines. Vista offers the protection expected from modified-live breeding vaccines, with all of the bells and whistles covering the most prevalent reproductive diseases, without any additional costs.



PRODUCT	Presentations		Dose	Route of Administration	Viral Protection				Bacterial Protection					
	10 dose	50 dose			IBR	BVD Type 1	BVD Type 2	BRSV	PI ₁	<i>Leptospira canicola</i>	<i>L. icterohaemorrhagiae</i>	<i>L. gryppophilus</i>	<i>L. pneumona</i>	<i>L. hardjo</i> **
Vista 3 VL5 SQ	10 dose	50 dose	2 mL	SQ*	X	X	X		X	X	X	X	X	X
Vista 5 L5 SQ	5 dose	10 dose	2 mL	SQ	X	X	X	X	X	X	X	X	X	
Vista 5 VL5 SQ	10 dose	50 dose	2 mL	SQ	X	X	X	X	X	X	X	X	X	X

*Subcutaneous injection
 ***L. hardjo* protection includes the *L. borgpetersenii* serovar *hardjo bovis*

PRODUCT FEATURES

- Labeled safe for use in pregnant cows/heifers and nursing calves¹
- Total Fetal Protection: Prevention against Persistent Infection (P.I.) + Congenital Infection (C.I.) caused by BVD Type 1 and Type 2³
- BVD Type 1b cross protection⁴
- Single-dose BRSV and *L. hardjo-bovis* protection¹
- Cell-Mediated Immunity (CMI) for BVD Type 1 and Type 2, BRSV, IBR⁵
- Provides protection against BVD in the face of maternal antibodies (IFOMA)⁶
- Vista's viral antigens are grown on fetal equine serum instead of fetal calf serum eliminating the risk of off-target pathogen contamination⁷

¹Plunkett, A.H., Graham, T.W., Famula, T.R., Oberbauer, A.M. Effect of a monovalent vaccine against *Leptospira borgpetersenii* serovar *Hardjo* strain of *hardjo bovis* on fertility in holstein dairy cattle. *J Am Vet Med Assoc* 2013; 242:1564-1572.

²Efficacy Final Report

³Xue, W., Mattick, D., Smith, L., Maxwell, J. Fetal protection against bovine viral diarrhoea types 1 and 2 after the use of a modified-live virus vaccine. *Canadian Journal of Veterinary Research* (Can J Vet Res) 2009 Oct; 73(4):292-297.

⁴Xue, W., Mattick, D., Smith, L., Umbaugh, J., Trigo, E. Vaccination with a modified-live bovine viral diarrhoea virus (BVDV) type 1a vaccine completely protected calves against challenge with BVDV type 1b strains. 2010 Dec 10;29(1):70-6. doi: 10.1016/j.vaccine.2010.10.012. Epub 2010 Oct 27.

⁵Platt, R., Burdett, W., Roth, J.A. Induction of antigen-specific T-cell subset activation to bovine respiratory disease viruses by a modified-live virus vaccine. *Am J Vet Res*. 2006 Jul;67(7):1179-84.

⁶Stevens, E. T., DVM, PhD, Brown, M. S., PhD, Burdett, W. W., DVM, Bolton, M. W., DVM, MS, Nordstrom, S. T., DVM, & Chase, C. C. (2011). Efficacy of a Non-Adjuvanted, Modified-live Virus Vaccine in Calves with Maternal Antibodies against a Virulent Bovine Viral Diarrhoea Virus Type 2a Challenge Seven Months following Vaccination. *The Bovine Practitioner*, 45(1), 23-31.

⁷Fetal Calf Serum - Hinnak Northoffa, Willy A. Flegel, in *Encyclopedia of Immunology* (Second Edition), 1998

PRODUCT RESOURCES

STOCKING CODE

Vista Mixing Instructions	BV-VST-42724
Protection against abortion caused by IBR in pregnant heifers, from a single, subcutaneous vaccination with Vista 5 SQ at pre-breeding	BV-VST-41405-IBR-ABORTION
Protection provided by a single vaccination with Vista 5 SQ at breeding against Fetal Persistent Infection (P.I.) caused by BVD Type 1 and Type 2	BV-VST-41405-BVD-PI
Vista 5 SQ Cell Mediated Immune Response to IBR, BVD Type 1 and Type 2, and BRSV Antigens	BV-VST-41405-CMI
Effects of Vaccination with Vista 5 L5 SQ or Bovi-Shield GOLD® FP® 5 L5 on Milk Production	BV-VST-41405-MILK-EFFECT
Milk Friendly Vaccine Research	BV-VST-44724
Reproductive Safety of Vaccination with Vista 5 L5 SQ Near Breeding Time as Determined by the Effect on Conception Rates	Veterinary Therapeutics. Vol 8, No. 3, Fall 2007
Vista Safety in Pregnant Cows, Previously Vaccinated with Zoetis or Boehringer-Ingelheim Modified-Live Vaccines	BV-VST-53460
Vista 5 VL5 Fast Facts	BV-VST-50254
Vista 5 L5 Fast Facts	BV-VST-50253
Vista Reproduction Vaccines	BV-VST-50256
Evaluation of Transmission of Viruses After Vaccination of Calves With Vista 5 SQ	BV-VST-41405-VIRAL SHEDDING
The prevalence and impact of BVD congenital infection in beef calves	BV-VST-41405-BVD-CI-BEEF