

## GUARDIAN® VACCINES

For the veterinarian or producer who values the important role high-quality colostrum plays in getting their calves off to a fast, healthy start, Guardian promotes broad-spectrum antibody production in the pregnant cow or heifer, which is then available to be transferred to their calves within the first hours of life.



PRODUCT	Presentations	Dose	Route of Administration	Timing	<i>E. coli</i> Type K99	Rotavirus Type G6	Rotavirus Type G10	Coronavirus Type 1	Coronavirus Type 3	<i>Cl. perfringens</i> Type B	<i>Cl. perfringens</i> Type C**	<i>Cl. perfringens</i> Type D**
	Product Details				Viral Protection				Clostridial Protection			
<b>Guardian</b>	10 dose 50 dose	2 mL	SQ*	1st year: 3 months prior to calving, repeated 3-6 weeks later. Subsequent years: 5-7 weeks before calving	X	X	X	X	X	X	X	X

\*Subcutaneous injection  
\*\*Enterotoxemia

## PRODUCT FEATURES

- Broad-spectrum coronavirus and rotavirus protection to help prevent the most frequently diagnosed causes of viral scours
- K99 *E. coli* pilis The Subunit Technology Advantage: Stimulates a more specific immune response and lower reactivity as compared to products containing whole-cell *E. coli* fractions<sup>2</sup>
- Broad-spectrum *Clostridial perfringens* protection to help prevent intestinal infections that can kill calves before you know it
- The only scours vaccine administered to pregnant cows and heifers that includes both Coronavirus Type 1 and Type 3<sup>3</sup>
- Guardian has been shown to produce higher K99 *E. coli* titer levels than other products on the market<sup>1</sup>
- BQA Friendly: Guardian is labeled for subcutaneous (SQ) administration; other commercially available maternally administered scours vaccines are labeled for intramuscular administration (IM)

<sup>1</sup> SPAH FSR MS-Guardian-03-11

<sup>2</sup> Jayappa H, Davis R, Dierks L, Sweeney D, Wasmoen T. (2008) Demonstration of Passive Protection in Neonatal Calves against Colibacillosis Following Immunization of Pregnant Heifers at 3 Months of Gestation. *Veterinary Therapeutics*, Vol. 9, No. 4, Winter 2008. 283-289.

<sup>3</sup> Guardian product label

## PRODUCT RESOURCES

## STOCKING CODE

Post-Vaccinal <i>E. coli</i> K99 Titer Response in Lactating Dairy Cows to Three Vaccines for the Control of Neonatal Diarrhea	BV-GRD-43024
Guardian Fast Facts	BV-GUAR-37193G
Guardian Sell Sheets	BV-GRD-SG-46836-D BV-GRD-SB-46838-D