

Company	Product Name	Activity	Types	Precautions	Other	PI Protection Comments
Pfizer Animal Health	Bovi-Shield GOLD® FP® 5 Bovi-Shield GOLD® FP® 5 VL5 Bovi-Shield GOLD® FP® 5 L5 PregGuard® GOLD™ FP® 10	MLV	1 & 2	*LABEL INDICATIONS: The Bovi-Shield GOLD line and PregGuard GOLD FP 10 may be administered to pregnant cattle provided they were vaccinated, according to label directions, with any Bovi-Shield FP or PregGuard FP vaccine prior to breeding initially and within 12 months thereafter. The Bovi-Shield GOLD line of products may be administered to calves nursing pregnant cows provided their dams were vaccinated within the last 12 months as described above.	IBR, PI ₃ , BRSV, lept 5, BVD Type 2 Testicular Infection	(1) Year-round fetal protection – Bovi-Shield GOLD FP prevented BVD Types 1 & 2 persistently infected calves and IBR abortion when challenged one year after vaccination. ¹ (2) Approved by USDA as an aid in preventing BVD persistently infected calves and IBR-induced abortions.* (3) Only injectable MLV demonstrated safe for pregnant cows and calves nursing pregnant cows when used according to label directions.*
	CattleMaster® GOLD™ FP® 5	Killed & MLV	1 & 2	*Fetal protection when administered prior to breeding.	IBR, PI ₃ and BRSV	(1) First and only killed BVD vaccine with the power to deliver fetal protection from BVD persistent infection and IBR abortion.* (2) Granted an aids in prevention claim by the USDA from BVD persistently infected calves and IBR-induced abortions. (3) Safe for use in pregnant and open cattle as well as calves of all ages. (4) Next-generation adjuvant system, PreZent™-A stimulates the immune system to unprecedented protective levels.
References 1 Data on file with USDA Bovi-Shield GOLD, CattleMaster, FP and PregGuard are registered trademarks and PregGuard GOLD and CattleMaster GOLD are trademarks of Pfizer Inc. ©2005 Pfizer Inc. All rights reserved.						

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Intervet, Inc.	Vista 3 SQ	MLV	1 & 2	Do not use in pregnant cows or calves nursing pregnant cows	IBR	Vista 3 SQ is for the vaccination of healthy cows and heifers prior to breeding as an aid in the prevention of persistently infected (PI) calves caused by BVD Types 1 & 2.
	Vista 5 SQ	MLV	1 & 2	Do not use in pregnant cows or calves nursing pregnant cows	IBR, BRSV, PI ₃	Vista 5 SQ is for the vaccination of healthy cows and heifers prior to breeding as an aid in the prevention of PI calves caused by BVD Types 1 & 2.
	Vista 5 L5 SQ	MLV	1 & 2	Do not use in pregnant cows or calves nursing pregnant cows	IBR, BRSV, PI ₃ , Leptospirosis including <i>hardjo bovis</i> protection	Vista 5 L5 SQ is for the vaccination of healthy cows and heifers prior to breeding as an aid in the prevention of PI calves caused by BVD Types 1 & 2.
	Vista Once SQ	MLV & Avirulent Live	1 & 2	Do not use in pregnant cows or calves nursing pregnant cows	IBR, BRSV, PI ₃ , <i>Mannheimia haemolytica</i> & <i>Pasteurella multocida</i> (Avirulent Live)	Vista Once SQ is for the vaccination of healthy cows and heifers prior to breeding as an aid in the prevention of PI calves caused by BVD Types 1 & 2.

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Fort Dodge Animal Health	Pyramid 5	MLV	1 & 2	Non-pregnant	IBR, PI ₃ , BRSV	100% against Type 2 BVD 95% against Type 1 BVD
	Pyramid 9	MLV	1	Non-pregnant	IBR, PI ₃ , BRSV, 5-way lepto	100% against Type 2 BVD 95% against Type 1 BVD

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Novartis Animal Health US, Inc.	BVD Shield™ 3	Killed	1 & 2	None, any animal at any time	None	Research in progress
	Vira Shield® 6	Killed	1 & 2	None, any animal at any time	IBR, PI ₃ , BRSV, 5-way lepto, vibrio and <i>H. somnus</i>	Research in progress
	Arsenal® 4.1	MLV	1 & 2	For non-pregnant animals only	IBR, PI ₃ , BRSV	Demonstrated against Type 1 and 2 challenge, paper submitted to Veterinary Therapeutics Research in Applied Veterinary Medicine™

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Agrilabs	Titanium 3	MLV	1 & 2	Do not use in pregnant cows or calves nursing pregnant cows.	IBR	N/A
	Titanium 5	MLV	1 & 2	Same as above	IBR, PI ₃ , BRSV	N/A
	Titanium 5L5	MLV	1 & 2	Same as above	IBR, PI ₃ , BRSV, Lepto	N/A
	Titanium 4	MLV	1 & 2	Same as above	IBR, PI ₃	N/A
	Master Guard 10	MLV with killed BVD	1 & 2	Maybe be used in cows 5 months of age and older including pregnant cows	IBR, PI ₃ , BRSV (these fractions are MLV)	

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Boehringer Ingelheim Vetmedica	Breed Back™ FP 5	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, PI3, BRSV	Control studies provided 90-99% protection against PI calves due to BVD types 1 & 2
	Breed Back™ FP 5 HS	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, PI3, BRSV, <i>H. somnus</i>	Control studies provided 90-99% protection against PI calves due to BVD types 1 & 2
	Breed Back™ FP 10	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, PI3, BRSV, 5-way lepto	Control studies provided 90-99% protection against PI calves due to BVD types 1 & 2
	Breed Back™ FP 10HS	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, PI3, BRSV, 5-way lepto, <i>H. somnus</i>	Control studies provided 90-99% protection against PI calves due to BVD types 1 & 2
	Express 3	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR	Control studies provided 90-99% protection against PI calves due to BVD types 1 & 2
	Express 3/LP	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, <i>Lepto pomona</i>	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2
	Express 5-PHM	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, BRSV, PI ₃ , <i>M. haemolytica</i> , <i>P. multocida</i>	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2
	Express 5	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, BRSV, PI ₃	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2
	Express 5 HS	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, BRSV, PI ₃ , <i>H. somnus</i>	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2
	Express 10	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, BRSV, PI ₃ , 5-way lepto	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2
	Express 10 Hs	MLV	1 & 2	Do not use in pregnant cows or calves suckling pregnant cows	IBR, BRSV, PI ₃ , 5-way lepto, <i>H. somnus</i>	Controlled studies demonstrated rapid onset of immunity for IBR and BVD type 2

	Elite 4	Killed	1		IBR, BRSV, PI ₃	Safe to use in all cattle
	Elite 4 HS	Killed	1		IBR, BRSV, PI ₃ , <i>H. somnus</i>	Safe to use in all cattle
	Elite 9	Killed	1		IBR, BRSV, PI ₃ , 5-way lepto	Safe to use in all cattle
	Elite 9 HS	Killed	1		IBR, BRSV, PI ₃	Safe to use in all cattle

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Merial	Reliant® 3	MLV	1	Do not use in pregnant cows or calves nursing pregnant cows	IBR, PI ₃	N/A
	Reliant® 4	MLV	1	Do not use in pregnant cows or calves nursing pregnant cows	IBR, PI ₃ Killed - BRSV	N/A
	Reliant® IBR/BVD	MLV	1	Do not use in pregnant cows or calves nursing pregnant cows	IBR	N/A
	Reliant® Plus BVD-K (Dual IBR™)	Killed	1	Do not use in pregnant cows or calves nursing pregnant cows	IBR, PI ₃ Killed - IBR, BRSV	N/A
	Reliant Plus® (Dual IBR™)	MLV	1	Do not use in pregnant cows or calves nursing pregnant cows	IBR, PI ₃ Killed - BRSV, IBR	N/A
	Respishield™ 4	Killed	1	Safe to use in all cattle	Killed - IBR, PI ₃ , BRSV	N/A
	Respishield™ 4 L5	Killed	1	Safe to use in all cattle	Killed - IBR, PI ₃ , BRSV, 5-way Lepto	N/A