

# CATTLE RESPIRATORY AND REPRODUCTIVE VACCINES

Last updated June 12, 2025

K = killed virus; MLV = modified live virus; AL = avirulent live; B = bacterin; BT = bacterin toxoid

| Product Name                                                | Material Number    | Vaccine Type | IBR | BVD Type I | BVD Type II | P13 (parainfluenza3) | BRSV | Histophilus somni (Haemophilus somnus) | Leptospira spp. | Pasteurella multocida | Campylobacter fetus | Tritrichomonas | L. canicola | L. grippotyphosa | L. icterohaemorrhagiae | L. interrogans serovar: hardjo | L. borgpetersenii serovar: hardjo-bovis | L. pomona | Mannheimia (Pasteurella) haemolytica | Mycoplasma bovis | Salmonella typhimurium | Ingredient(s)              | Route of Administration | Respiratory | Reproductive |
|-------------------------------------------------------------|--------------------|--------------|-----|------------|-------------|----------------------|------|----------------------------------------|-----------------|-----------------------|---------------------|----------------|-------------|------------------|------------------------|--------------------------------|-----------------------------------------|-----------|--------------------------------------|------------------|------------------------|----------------------------|-------------------------|-------------|--------------|
| BIMEDA                                                      |                    |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            |                         |             |              |
| Myco-Bac B 100 mL (50-dose), 200 mL (100-dose)              | 13599614, 12510662 | B            |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      | X                |                        | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Pro-Bac 2 100 mL (50-dose), 200 mL (100-dose)               | 21304783, 21304784 | BT           |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Pro-Bac 3 100 mL (50-dose), 200 mL (100-dose)               | 21303897, 20109996 | BT           |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Pro-Bac 4 100 mL (50-dose), 200 mL (100-dose)               | 21306955, 20109998 | BT           |     |            |             |                      |      | X                                      |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Pro-Bac 4 + IBRk & BVDk 100 mL (50-dose), 200 mL (100-dose) | 21307618, 21307384 | K, BT        | X   | X          |             |                      |      | X                                      |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Pro-Bac 5 100 mL (50-dose), 200 mL (100-dose)               | 21307383, 20110000 | BT           |     |            |             |                      |      | X                                      |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  | X                      | Reveal ATS Adjuvant System | S.Q.                    | X           |              |
| Stimulator 2 20 mL (10-dose), 100 mL (50-dose)              | 21304691, 21273896 | MLV          | X   |            |             | X                    |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            | S.Q.                    | X           |              |
| Stimulator 2 + BRSV 20 mL (10-dose), 100 mL (50-dose)       | 21307057, 21307058 | MLV          | X   |            |             | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            | S.Q.                    | X           |              |
| Stimulator 3 20 mL (10-dose), 100 mL (50-dose)              | 21304692, 21274446 | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            | S.Q.                    | X           |              |
| Stimulator 5 20 mL (10-dose), 100 mL (50-dose)              | 21289343, 21273496 | MLV          | X   | X          | X           |                      | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            | S.Q.                    | X           |              |
| BOEHRINGER INGELHEIM                                        |                    |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            |                         |             |              |
| Bar Somnus 2P 20 mL (10-dose), 100 mL (50-dose)             | 17502145, 12360437 | B            |     |            |             |                      |      | X                                      |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | neomycin, thimerosal       | I.M.                    | X           |              |
| Citadel L5 HB 100 mL (50-dose)                              | 17283255           | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        |                            | S.Q., I.M.              |             | X            |
| Citadel VL5 HB 20 mL (10-dose), 100 mL (50-dose)            | 12653562, 12653563 | B            |     |            |             |                      |      |                                        |                 |                       | X                   |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | neomycin, thimerosal       | S.Q.                    |             | X            |
| Express 3 100 mL (50-dose)                                  | 12652147           | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                            | S.Q.                    | X           |              |
| Express 5 20 mL (10-dose), 100 mL (50-dose)                 | 11444581, 18795184 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | neomycin, thimerosal       | S.Q.                    | X           |              |
| Express 5-HS 20 mL (10-dose), 100 mL (50-dose)              | 17489851, 15898641 | MLV          | X   | X          | X           | X                    | X    | X                                      |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | neomycin, thimerosal       | S.Q.                    | X           |              |
| Express FP 3 VL5 HB 20 mL (10-dose), 100 mL (50-dose)       | 11154333, 15411444 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       | X                   |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | neomycin, thimerosal       | S.Q., I.M.              | X           | X            |

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|-----------------------------------------------------------------------------------------|------------------------------|--------------|-----|------------|-------------|----------------------|------|----------------------------------------|-----------------|-----------------------|---------------------|----------------|-------------|------------------|------------------------|--------------------------------|-----------------------------------------|-----------|--------------------------------------|------------------|------------------------|--------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| BOEHRINGER INGELHEIM (cont.)                                                            |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                            |                         |             |              |
| Express FP 5 VL5 HB 20 mL (10-dose), 100 mL (50-dose)                                   | 14854125, 16441578           | MLV          | X   | X          | X           | X                    | X    |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | neomycin, thimerosal                                                                       | S.Q., I.M.              | X           | X            |
| Express FP 10 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose)                         | 14781569, 14876523, 15166392 | MLV          | X   | X          | X           | X                    | X    | X                                      |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | neomycin, thimerosal                                                                       | S.Q., I.M.              | X           | X            |
| Presponse HM 20 mL (10-dose), 100 mL (50-dose)                                          | 15150225, 18900252           | BT           |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | thimerosal                                                                                 | I.M.                    | X           |              |
| Presponse SQ 20 mL (10-dose), 100 mL (50-dose)                                          | 17894614, 17894613           | BT           |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        |                                                                                            | S.Q.                    | X           |              |
| Pyramid 3 100 mL (50-dose)                                                              | 11823512                     | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, neomycin, polymyxin B, and thimerosal                                          | S.Q., I.M.              | X           |              |
| Pyramid 3 LPH 100 mL (50-dose)                                                          | 10133851                     | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        | X                              |                                         | X         |                                      |                  |                        | gentamicin, neomycin, polymyxin B, and thimerosal                                          | S.Q., I.M.              | X           |              |
| Pyramid 3 + Presponse SQ 100 mL (50-dose)                                               | 21249075                     | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | gentamicin, neomycin, polymyxin B, and thimerosal                                          | S.Q.                    | X           |              |
| Pyramid 4 100 mL (50-dose)                                                              | 17565461                     | MLV          | X   | X          |             | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, Metastim®, neomycin, polymyxin B, thimerosal                                   | S.Q., I.M.              | X           |              |
| Pyramid 5 20 mL (10-dose), 100 mL (50-dose)                                             | 16523357, 19852147           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, Metastim®, neomycin, polymyxin B, thimerosal                                   | S.Q., I.M.              | X           |              |
| Pyramid 5 + Presponse SQ 20 mL (10-dose), 100 mL (50-dose)                              | 15986326, 16894162           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | neomycin, polymyxin B, thimerosal                                                          | S.Q.                    | X           |              |
| Pyramid 10 HB 20 mL (10-dose), 100 mL (50-dose)                                         | 12361264, 17441956           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | gentamicin, Metastim®, neomycin, polymyxin B, thimerosal                                   | S.Q., I.M.              | X           | X            |
| Pyramid IBR 100 mL (50-dose)                                                            | 12300245                     | MLV          | X   |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, neomycin, polymyxin B, and thimerosal                                          | S.Q., I.M.              | X           |              |
| Triangle 4 + PH-K 50 mL (10-dose), 250 mL (50-dose)                                     | 11458946, 11025332           | K            | X   | X          |             | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Enhance dual adjuvant system, gentamicin, Immune-Guard®, neomycin, polymyxin B, thimerosal | S.Q.                    | X           |              |
| Triangle 5 20 mL (10-dose), 100 mL (50-dose)                                            | 14517425, 11859263           | K            | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | Enhance dual adjuvant system, gentamicin, neomycin, polymyxin B, thimerosal                | S.Q., I.M.              | X           |              |
| Triangle 10 HB 50 mL (10-dose), 250 mL (50-dose)                                        | 11228554, 14512332           | K            | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | Enhance dual adjuvant system, gentamicin, neomycin, polymyxin B, thimerosal                | S.Q., I.M.              | X           | X            |
| TrichGuard 20 mL (10-dose), 100 mL (50-dose)                                            | 16932648, 18795127           | K            |     |            |             |                      |      |                                        |                 |                       | X                   | X              |             |                  |                        |                                |                                         |           |                                      |                  |                        | neomycin, polymyxin B, thimerosal                                                          | S.Q.                    |             | X            |
| Trich Vibrio Inj. 50 mL (10-dose), 250 mL (50-dose)                                     | 21312045, 21315870           | K            |     |            |             |                      |      |                                        |                 | X                     | X                   |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                            | S.Q.                    |             | X            |
| COLORADO SERUM                                                                          |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                            |                         |             |              |
| Mannheimia Haemolytica Pasteurella Multocida Bacterin 20 mL (10-dose), 100 mL (50-dose) | 11365614, 16544454           | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | aluminum hydroxide, thimerosal                                                             | S.Q.                    | X           |              |

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|----------------------------------------------------------|--------------------|--------------|-----|------------|-------------|----------------------|------|----------------------------------------|-----------------|-----------------------|---------------------|----------------|-------------|------------------|------------------------|--------------------------------|-----------------------------------------|-----------|--------------------------------------|------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| ELANCO                                                   |                    |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                                                                                      |                         |             |              |
| Lepto Shield 5 20 mL (10-dose), 100 mL (50-dose)         | 17103456, 13005445 | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | thimerosal                                                                                                                                           | I.M.                    |             | X            |
| Master Guard 10 HB 30 mL (10-dose), 75 mL (25-dose)      | 11100597, 13001645 | MLV/K        | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | gentamicin                                                                                                                                           | I.M. & S.Q.             | X           | X            |
| Nuplura PH 20 mL (10-dose), 100 mL (50-dose)             | 18053063, 19053064 | BT           |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Emulsigen® D, gentamicin, thimerosal                                                                                                                 | S.Q.                    | X           |              |
| Nuplura PH + 3 20 mL (10-dose), 100 mL (50-dose)         | 21304042, 21304043 | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Emulsigen® D, gentamicin, thimerosal                                                                                                                 | S.Q.                    | X           |              |
| Nuplura PH + BVD 20 mL (10-dose), 100 mL (50-dose)       | 21304040, 21304041 | MLV          |     | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | Emulsigen® D, gentamicin, thimerosal                                                                                                                 | S.Q.                    | X           |              |
| ReproSTAR L5 HB 20 mL (10-dose), 100 mL (50-dose)        | 12011567, 16501487 | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | thimerosal, Xtend™ SP                                                                                                                                | S.Q.                    |             | X            |
| ReproSTAR VL5 HB 20 mL (10-dose), 100 mL (50-dose)       | 14171832, 18213489 | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | thimerosal, Xtend™ SP                                                                                                                                | I.M.                    |             | X            |
| Somnu Shield 100 mL (50-dose)                            | 13258972           | B            |     |            |             |                      |      | X                                      |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | aluminum hydroxide                                                                                                                                   | S.Q. & I.M.             |             | X            |
| Titanium 3 20 mL (10-dose), 100 mL (50-dose)             | 14122110, 18599632 | MLV          | X   | X          |             |                      | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                                                                                      | S.Q. & I.M.             | X           |              |
| Titanium 3 LP 100 mL (50-dose)                           | 16432151           | MLV          | X   | X          |             |                      | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         | X         |                                      |                  |                        | thimerosal                                                                                                                                           | S.Q. & I.M.             | X           | X            |
| Titanium 5 20 mL (10-dose), 100 mL (50-dose)             | 17748491, 18975884 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | desiccated Bovine Rhinotracheitis-Virus<br>Diarrhea-Parainfluenza3-Respiratory<br>Syncytial Virus Vaccine and<br>sterile diluent to use as a diluent | S.Q.                    | X           |              |
| Titanium 5 L5 HB 20 mL (10-dose), 100 mL (50-dose)       | 18513306, 12516355 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | thimerosal                                                                                                                                           | S.Q.                    | X           | X            |
| Titanium IBR-LP 100 mL (50-dose)                         | 15454858           | MLV          | X   |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         | X         |                                      |                  |                        |                                                                                                                                                      | S.Q., I.M.              | X           |              |
| Vib Shield Plus L5 20 mL (10-dose), 100 mL (50-dose)     | 13603621, 16312057 | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | thimerosal, Xtend™ SP                                                                                                                                | I.M.                    |             | X            |
| Vira Shield 4 + VL5 250 mL (50-dose)                     | 12514522           | K            | X   | X          | X           |                      |      |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | S.Q.                    | X           | X            |
| Vira Shield 6 50 mL (10-dose), 250 mL (50-dose)          | 11000123, 18514287 | K            | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | S.Q.                    | X           |              |
| Vira Shield 6 + L5 50 mL (10-dose), 250 mL (50-dose)     | 14100587, 13001497 | K            | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | S.Q.                    | X           | X            |
| Vira Shield 6 + L5 HB 50 mL (10-dose), 250 mL (50-dose)  | 14301269, 18230926 | K            | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | S.Q.                    | X           | X            |
| Vira Shield 6 + L5 HB Somnus 250 mL (50-dose)            | 19300642           | K            | X   | X          | X           | X                    | X    | X                                      |                 |                       |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | I.M.                    | X           | X            |
| Vira Shield 6 + Somnus 50 mL (10-dose), 250 mL (50-dose) | 13557294, 14555511 | K            | X   | X          | X           | X                    | X    | X                                      |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP                                                                                                    | I.M.                    | X           |              |

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| ELANCO (cont.)                                                          |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                   |                         |             |              |
| Vira Shield 6 + VL5 50 mL (10-dose), 250 mL (50-dose)                   | 18301457, 14612589           | K            | X   | X          | X           | X                    | X    |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP | S.Q.                    | X           | X            |
| Vira Shield 6 + VL5 HB 50 mL (10-dose), 250 mL (50-dose)                | 18849869, 16691659           | K            | X   | X          | X           | X                    | X    |                                        |                 | X                     |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP | S.Q.                    | X           | X            |
| Vira Shield 6 + VL5 HB Somnus 50 mL (10-dose), 250 mL (50-dose)         | 17789633, 12229362           | K            | X   | X          | X           | X                    | X    | X                                      |                 | X                     |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP | I.M.                    | X           | X            |
| Vira Shield 6 + VL5 Somnus 50 mL (10-dose), 250 mL (50-dose)            | 16940074, 19527526           | K            | X   | X          | X           | X                    | X    | X                                      |                 | X                     |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | amphotericin B, gentamicin, thimerosal, Xtend™ SP | I.M.                    | X           | X            |
| Zelnate DNA Immunostimulant 10-dose, 50-dose                            | 21270480, 21270481           |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | liposome carrier, sterile diluent                 | I.M. & Intranasal       | X           |              |
| ENDOVAC                                                                 |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                   |                         |             |              |
| Endovac Beef 40 mL (20-dose), 100 mL (50-dose), 200 mL (100-dose)       | 21246042, 21245681, 21246041 | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  | X                      |                                                   | I.M.                    | X           | X            |
| Endovac Dairy 40 mL (20-dose), 100 mL (50-dose), 200 mL (100-dose)      | 15145024, 14283124, 18927687 | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  | X                      |                                                   | I.M.                    | X           | X            |
| MERCK                                                                   |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                   |                         |             |              |
| Bovilis L5 SQ 100 mL (50-dose)                                          | 12765218                     | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        |                                                   | S.Q.                    |             | X            |
| Bovilis Nasalgen 3 20 mL (10-dose), 25x1-dose, 100 mL (50-dose)         | 21298429, 21298451, 21298450 | MLV          | X   |            |             | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | penicillin, streptomycin                          | Intranasal              | X           |              |
| Bovilis Nasalgen 3-PMH 25x1-dose, 20 mL (10-dose), 100 mL (50-dose)     | 21303121, 21303123, 21303124 | MLV/AL       | X   |            |             | X                    | X    |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | penicillin, streptomycin                          | Intranasal              | X           |              |
| Bovilis Nasalgen IP 20 mL (10-dose), 100 mL (50-dose)                   | 21278808, 17872641           | MLV          | X   |            |             | X                    |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin                                        | Intranasal              | X           |              |
| Bovilis Once PMH IN 20 mL (10-dose), 100 mL (50-dose), Tray (25x1-dose) | 21260027, 21260028, 21271080 | AL           |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | streptomycin                                      | Intranasal              | X           |              |
| Bovilis Once PMH SQ 20 mL (10-dose), 100 mL (50-dose)                   | 18713642, 16009555           | AL           |     |            |             |                      |      |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | streptomycin                                      | S.Q.                    | X           |              |
| Bovilis Vista Once SQ 20 mL (10-dose), 100 mL (50-dose)                 | 11230594, 11475623           | MLV/AL       | X   | X          | X           | X                    | X    |                                        |                 | X                     |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | penicillin, streptomycin                          | S.Q.                    | X           |              |
| Bovilis Vista BVD CFP 20 mL (10-dose), 100 mL (50-dose)                 | 21298934, 21298933           | MLV          |     | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | penicillin, streptomycin                          | S.Q.                    | X           |              |
| Bovilis Vista 5 SQ 20 mL (10-dose), 100 mL (50-dose)                    | 12122334, 15634989           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | penicillin, streptomycin                          | S.Q.                    | X           |              |
| Bovilis Vista 5 L5 SQ 100 mL (50-dose)                                  | 14713444                     | MLV/B        | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | penicillin, streptomycin                          | S.Q.                    | X           | X            |
| Bovilis Vista 5 VL5 20 mL (10-dose), 100 mL (50-dose)                   | 12946522, 13781342           | MLV          | X   | X          | X           | X                    | X    |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | penicillin, streptomycin                          | S.Q.                    | X           | X            |
| Bovilis VL5 SQ 100 mL (50-dose)                                         | 19987323                     | B            |     |            |             |                      |      |                                        |                 | X                     |                     |                | X           | X                | X                      | X                              | X                                       | X         |                                      |                  |                        | thimerosal                                        | S.Q.                    | X           | X            |

Last updated June 12, 2025

K = killed virus; MLV = modified live virus; AL = avirulent live; B = bacterin; BT = bacterin toxoid

| Product Name                                                                 | Material Number              | Vaccine Type | IBR | BVD Type I | BVD Type II | PI3 (parainfluenza3) | BRSV | Histophilus somni (Haemophilus somnus) | Leptospira spp. | Pasteurella multocida | Campylobacter fetus | Tritrichomonas | L. canicola | L. grippotyphosa | L. icterohaemorrhagiae | L. interrogans serovar: hardjo | L. borgpetersenii serovar: hardjo-bovis | L. pomona | Mannheimia (Pasteurella) haemolytica | Mycoplasma bovis | Salmonella typhimurium | Ingredient(s)                      | Route of Administration | Respiratory | Reproductive |
|------------------------------------------------------------------------------|------------------------------|--------------|-----|------------|-------------|----------------------|------|----------------------------------------|-----------------|-----------------------|---------------------|----------------|-------------|------------------|------------------------|--------------------------------|-----------------------------------------|-----------|--------------------------------------|------------------|------------------------|------------------------------------|-------------------------|-------------|--------------|
| VIRBAC                                                                       |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                    |                         |             |              |
| BOVIGEN Platinum 3 100 mL (50-dose)                                          | 21319573                     | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                    | S.Q.                    | X           |              |
| BOVIGEN Platinum 3 LP 100 mL (50-dose)                                       | 21319581                     | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         | X         |                                      |                  |                        | thimerosal                         | S.Q.                    | X           |              |
| BOVIGEN Platinum 5 20 mL (10-dose), 100 mL (50-dose)                         | 21316857, 21316858           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                    | S.Q.                    | X           |              |
| BOVIGEN Platinum 5L5 20 mL (10-dose), 100 mL (50-dose)                       | 21316859, 21316860           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | thimerosal                         | S.Q.                    | X           |              |
| ZOETIS                                                                       |                              |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                    |                         |             |              |
| Bovi-Shield Gold 4 100 mL (50-dose)                                          | 14169867                     | MLV          | X   | X          | X           | X                    |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, amphotigen             | S.Q.                    | X           |              |
| Bovi-Shield Gold 5 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose)         | 19863641, 13621597, 14213690 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, amphotigen             | S.Q., I.M.              | X           |              |
| Bovi-Shield Gold BVD 20 mL (10-dose), 100 mL (50-dose)                       | 11015269, 11315268           | MLV          |     | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, amphotigen             | S.Q., I.M.              | X           |              |
| Bovi-Shield Gold FP5 20 mL (10-dose), 100 mL (50-dose)                       | 17745621, 13251269           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, amphotigen             | S.Q., I.M.              | X           |              |
| Bovi-Shield Gold FP5 L5 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose)    | 15698692, 18594652, 16554893 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | gentamicin, amphotigen             | I.M.                    | X           | X            |
| Bovi-Shield Gold FP5 L5 HB 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose) | 15487715, 19884789, 13768798 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | gentamicin, amphotigen, thimerosal | I.M., S.Q.              | X           | X            |
| Bovi-Shield Gold FP5 VL5 20 mL (10-dose), 100 mL (50-dose)                   | 12553620, 17548966           | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       | X                   |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | gentamicin, amphotigen             | I.M.                    | X           | X            |
| Bovi-Shield Gold IBR-BVD 20 mL (10-dose), 100 mL (50-dose)                   | 11015269, 18416304           | MLV          | X   | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin, amphotigen             | S.Q.                    | X           |              |
| Bovi-Shield Gold One Shot 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose)  | 21255782, 21303092, 21303057 | MLV          | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | gentamicin, amphotigen             | S.Q.                    | X           |              |
| CattleMaster 4+VL5 50 mL (10-dose), 125 mL (25-dose)                         | 11678374, 13075725           | MLV/K        | X   | X          |             | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | aluminum hydroxide, gentamicin     | I.M                     | X           | X            |
| CattleMaster Gold FP5 10 mL (5-dose), 20 mL (10-dose), 50 mL (25-dose)       | 18496982, 13621512, 14182310 | MLV/K        | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | Amphotigen®, gentamicin            | S.Q.                    | X           |              |
| CattleMaster Gold FP 5+L5 25 mL (5-dose), 50 mL (10-dose), 125 mL (25-dose)  | 12051262, 13100210, 11023502 | MLV/K        | X   | X          | X           | X                    | X    |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | Amphotigen®, gentamicin            | S.Q.                    | X           | X            |

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K = killed virus; MLV = modified live virus; AL = avirulent live; B = bacterin; BT = bacterin toxoid

| Product Name                                                            | Material Number                        | Vaccine Type | IBR | BVD Type I | BVD Type II | PI3 (parainfluenza3) | BRSV | Histophilus somni (Haemophilus somnus) | Leptospira spp. | Pasteurella multocida | Campylobacter fetus | Tritrichomonas | L. canicola | L. grippityphosa | L. icterohaemorrhagiae | L. interrogans serovar: hardjo | L. borgpetersenii serovar: hardjo-bovis | L. pomona | Mannheimia (Pasteurella) haemolytica | Mycoplasma bovis | Salmonella typhimurium | Ingredient(s)                                                                      | Route of Administration | Respiratory | Reproductive |
|-------------------------------------------------------------------------|----------------------------------------|--------------|-----|------------|-------------|----------------------|------|----------------------------------------|-----------------|-----------------------|---------------------|----------------|-------------|------------------|------------------------|--------------------------------|-----------------------------------------|-----------|--------------------------------------|------------------|------------------------|------------------------------------------------------------------------------------|-------------------------|-------------|--------------|
| ZOETIS (cont.)                                                          |                                        |              |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        |                                                                                    |                         |             |              |
| Inforce 3 20 mL (10-dose), 25x1-dose, 50 mL (25-dose), 100 mL (50-dose) | 12324581, 11552248, 19373732, 14511502 | MLV          | X   |            |             | X                    | X    |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | gentamicin                                                                         | Intranasal              | X           |              |
| Leptoform 5 20 mL (10-dose), 100 mL (50-dose)                           | 17572414, 18969765                     | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | contains chemically inactivated whole cultures of the 5 Leptospira serovars listed | I.M.                    |             | X            |
| One Shot 10 mL (5-dose), 20 mL (10-dose), 100 mL (50-dose)              | 12154602, 14568303, 12163822           | BT           |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | not named                                                                          | I.M. & S.Q.             | X           |              |
| One Shot BVD 20 mL (10-dose), 100 mL (50-dose)                          | 21261316, 21261317                     | MLV          |     | X          | X           |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           | X                                    |                  |                        | gentamicin                                                                         | S.Q.                    | X           |              |
| PregGuard Gold FP 10 20 mL (10-dose), 100 mL (50-dose)                  | 12254693, 14548871                     | MLV          | X   | X          | X           | X                    |      |                                        |                 |                       | X                   |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | gentamicin                                                                         | I.M.                    | X           | X            |
| Protivity 20 mL (10-dose), 100 mL (50-dose)                             | 21309706, 21309707                     | MLV          |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      | X                |                        |                                                                                    | S.Q.                    | X           |              |
| Spirovac 20 mL (10-dose), 100 mL (50-dose)                              | 18934488, 18399448                     | B            |     |            |             |                      |      |                                        |                 |                       |                     |                |             |                  |                        |                                | X                                       |           |                                      |                  |                        |                                                                                    | S.Q.                    |             | X            |
| Spirovac L5 20 mL (10-dose), 100 mL (50-dose)                           | 11857154, 19887215                     | B            |     |            |             |                      |      |                                        |                 |                       |                     |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | not named                                                                          | I.M. & S.Q.             |             | X            |
| Spirovac VL5 20 mL (10-dose), 100 mL (50-dose)                          | 15968921, 13625698                     | B            |     |            |             |                      |      |                                        |                 |                       | X                   |                | X           | X                | X                      |                                | X                                       | X         |                                      |                  |                        | not named                                                                          | I.M. & S.Q.             | X           | X            |
| Somubac 20 mL (10-dose), 100 mL (50-dose)                               | 11123698, 17741451                     | B            |     |            |             |                      |      | X                                      |                 |                       |                     |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | aluminum hydroxide                                                                 | S.Q.                    | X           |              |
| StayBred VL5 100 mL (50-dose)                                           | 11746721                               | B            |     |            |             |                      |      |                                        |                 |                       | X                   |                | X           | X                | X                      | X                              |                                         | X         |                                      |                  |                        | oil adjuvant                                                                       | I.M.                    | X           | X            |
| Vibrin 100 mL (50-dose)                                                 | 12155196                               | B            |     |            |             |                      |      |                                        |                 |                       | X                   |                |             |                  |                        |                                |                                         |           |                                      |                  |                        | not named                                                                          | S.Q.                    |             | X            |