

Top Reasons to choose Triangle® for your herd.

1

SAFE FOR ALL AGES AND STAGES, GIVING YOU THE CONFIDENCE OF PROVEN PROTECTION

- Contains only killed antigens
- Safe for use in pregnant animals regardless of previous vaccination history

2

KILLED VIRAL VACCINE WITH DUAL-STRAIN BVDV PROTECTION

- Diversity of strains specifically chosen for optimal BVDV protection
- Demonstrated protection against BVDV Type 1 and Type 2 challenges¹
- Contains the same BVDV strains as the Pyramid® modified-live virus (MLV) vaccine family

3

TRIANGLE® 10 HB NOW OFFERS PROTECTION AGAINST LEPTO HARDJO-BOVIS

- Additional leptospira protection that you can count on
- Prevented urinary shedding against rigorous challenge with Strain 203 *Leptospira borgpetersenii* serovar *hardjo* (type *hardjo-bovis*)

4

TRIANGLE® UTILIZES ENHANCE™ DUAL ADJUVANT SYSTEM

- Multiple adjuvants optimize immune system recognition of vaccine antigens
- Significantly higher immunity in cow and colostrum when used at dry-off after a pre-breeding MLV vaccine²
- Demonstrated advantages when used with PYRAMID pre-breeding protocol³
- Improves the colostrum quality² for newborn calves

5

INCREASED FLEXIBILITY

- Triangle® 5 and TRIANGLE 10 HB can be administered subcutaneously (Sub-Q) or intramuscularly (IM)
- Short meat withhold (21 days)
- Ready to use — no mixing required
- No label precautions on milk reduction and transient depression

¹ Data on file, licensing Trial.

² Smith BJ, Rieger RH, Dickens CM, et al. Anti-bovine herpesvirus and anti-bovine viral diarrhoea virus antibody responses in pregnant Holstein dairy cattle following administration of a multivalent killed virus vaccine. *Am J Vet Res* 2015;76(10):913-920.

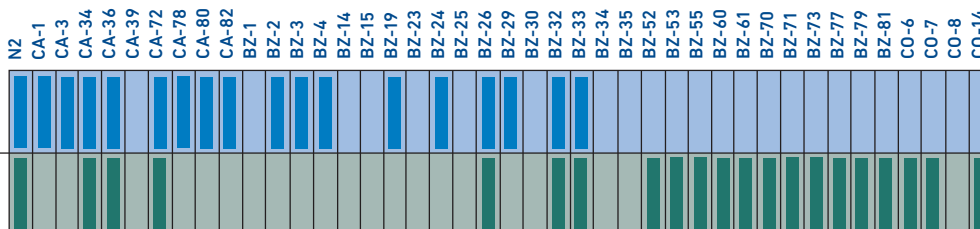
³ Dubovi EJ, Gröhn YT, Brunner MA, Hertl JA. Response to modified-live and killed multivalent viral vaccine in regularly vaccinated, fresh dairy cows. *Vet Ther* 2000;1(1):49-58.

| | Triangle® 4 + PH-K | Triangle® 5 | Triangle® 10 HB |
|-------------------------------------------------------|--------------------|-------------|-----------------|
| Infectious bovine rhinotracheitis virus (IBR) | X | X | X |
| Bovine viral diarrhea virus (BVDV) Type 1 | X | X | X |
| BVDV Type 2 | | X | X |
| Parainfluenza 3 virus (PI ₃) | X | X | X |
| Bovine respiratory syncytial virus (BRSV) | X | X | X |
| <i>Mannheimia haemolytica</i> | X | | |
| <i>Pasteurella multocida</i> | X | | |
| 5-way Leptospira | | | X |
| <i>Lepto hardjo-bovis</i> urinary shedding protection | | | X |

Choose your combination.

Singer
TYPE 1

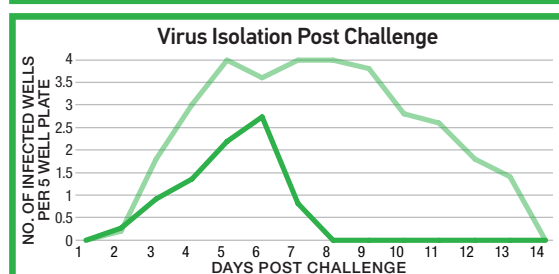
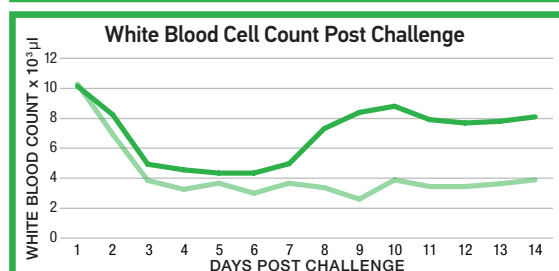
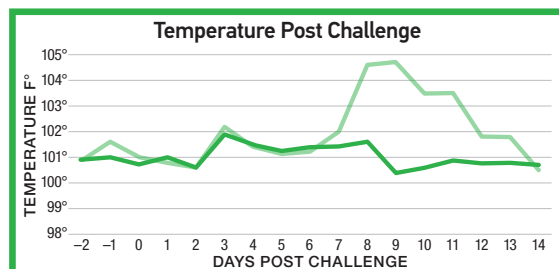
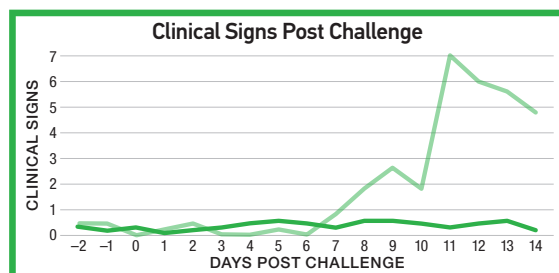
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TYPE 2



Of 52 BVD strains tested, 42 showed an interaction between the antibodies in TRIANGLE and the tested strain. This high occurrence of interactions means that, with TRIANGLE, you're getting a broad range of BVDV protection.

Virulent BVDV Type 2 challenge with TRIANGLE 10 HB 13 months post vaccination.¹

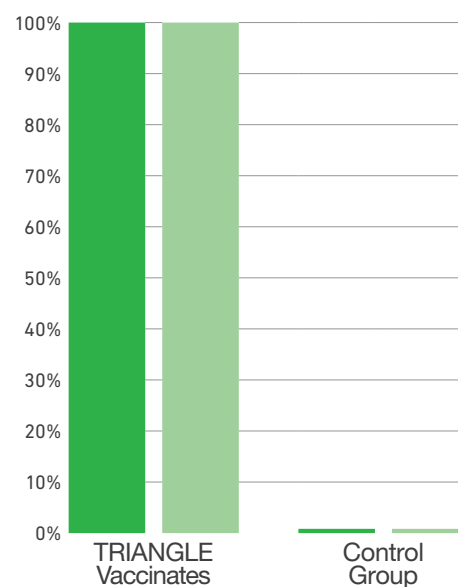
— TRIANGLE 10 HB — CONTROLS



In the hardjo-bovis challenge studies against the NADC challenge strain 203, TRIANGLE 10 HB vaccinates tested negative on weekly cultures, and urinary shedding was completely prevented.

One hundred percent of the heifers vaccinated with TRIANGLE 10 HB had negative kidney tissue cultures for leptospire eight weeks post challenge.

■ Prevention of Urinary Shedding
■ No Renal Infections After Eight Weeks



For more information about TRIANGLE vaccines and other Boehringer Ingelheim products, visit TriangleVaccines.com.

Trust Triangle®
TRIANGLE®