



The only protection of its kind

ONLY Nobivac[®] Lyme induces borreliacidal antibodies that target and kill bacteria expressing OspA and ALL OspC variants—delivering more complete coverage and confidence with every dose.^{1,2}



Protection unites us.



More complete protection. More confidence.



Nobivac[®] Lyme—targets and kills like no other Lyme vaccine.

- The only vaccine proven to trigger borreliacidal antibodies against OspA and all OspC variants, killing Borrelia burgdorferi in the tick and in the dog^{1,2}
- The first vaccine shown to be effective against subclinical arthritis and other signs of Lyme disease^{1,3}
- After vaccination with Nobivac[®] Lyme, there was no evidence of *B. burgdorferi* infection¹
- Duration of immunity at least 1 year³

Abbreviation: Osp, outer surface protein.



More coverage against more variants means MORE PROTECTION.



KILL XX

The borreliacidal antibodies in against B. burgdorferi.*

After Nobivac[®] Lyme vaccination, no *B. burgdorferi* were found¹

O IN THE TICK/SKIN/JOINT

*The tick challenge study was a placebo-controlled trial involving thirty, 8-week-old puppies. Dogs were challenged 3 weeks after second vaccination.¹

Nobivac[•]:Lyme

Unlike other vaccines, Nobivac[®] Lyme uses a select portion of the OspC antigen present in ALL VARIANTS OF OspC¹

Vanguard[®] crLyme targets only 7 OspC variants⁴



Nobivac® Lyme targets and kills ALL OspC variants



The borreliacidal antibodies in Nobivac® Lyme were shown to be effective

No signs of Lyme disease—associated joint abnormalities¹



Stimulate borreliacidal antibodies. Optimize your Osp protection. **Nobivac: Lyme**

Nobivac[®] Lyme reliably induces borreliacidal antibodies against OspA and OspC.[†]

Spirochetes killed by Nobivac® Lyme



Live, motile spirochetes left by the competition



[†]A blinded study involving 3 randomized groups of five, 9-week-old, laboratory-reared Beagles vaccinated according to the label recommendations. Blood samples were collected before initial vaccination and 7 days after the booster.²

Duramune

RECOMBITEK⁽

Only Nobivac[®] Lyme provides a multifaceted approach to protection.

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Induces borreliacidal antibodies against OspA	\checkmark	\checkmark	\checkmark	\checkmark
Induces borreliacidal antibodies against ALL OspC variants	\checkmark			
Shown to be effective against clinical disease caused by B. burgdorferi	\checkmark	\checkmark	\checkmark	\checkmark
Labeled effective against subclinical arthritis caused by B. burgdorferi	\checkmark			
Initial vaccination, weeks	8	9	9	8
Second dose, weeks	2-4	2-3	2-3	3

Nobivac®

Put confidence into practice with Nobivac[®] Lyme.

To learn more, contact your Merck Animal Health sales representative or your distributor representative.

Customer Service: 1-800-521-5767 (Monday-Friday, 9:00AM-6:00PM EST) Technical Services: 1-800-224-5318 (Monday–Friday, 9:00AM–7:00PM EST)

Nobivac Protection unites us.

References: 1. LaFleur RL, Dant JC, Wasmoen TL, et al. Bacterin that induces anti-OspA and anti-OspC borreliacidal antibodies provides a high level of protection against canine Lyme disease. *Clin Vaccine Immunol.* 2009;16:253–259. 2. Dant JC, LaFleur RL, Callister SM, Stahl M, Sutton D, Tarpey I. Ability of antibodies induced by canine Lyme disease vaccines to kill viable spirochetes. Poster presented at: The ISCAID Symposium; October 16–19, 2016; Bristol, UK. 3. Nobivac[®] Lyme [product label]. Madison, NJ: Intervet, Inc; 2009. 4. Why variability of OspC matters. Zoetis website. Available at: https://www.zoetisus.com/products/dogs/vanguard-crlyme/. Accessed February 3, 2021. 5. RECOMBITEK[®] Lyme [product label]. Duluth, GA: Boehringer Ingelheim Animal Health; 2017. 6. Duramune[®] Lyme [product label]. Greenfield, IN: Elanco; 2017. 7. VANGUARD[®] crLyme [product label]. Florham Park, NJ: Zoetis, Inc.; 2017.



VANGUARD

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