

A new serology solution from VMRD for **Johne's disease**

New product

Johne's disease is a chronic and highly contagious wasting disease of all ruminants caused by *Mycobacterium avium* ssp. *paratuberculosis* (MAP). Major clinical signs include weight loss, pipestream diarrhea, edema, decreased milk production, and eventually death.

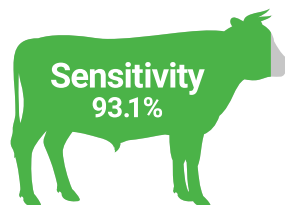
In the US, Johne's disease affects ~70% of dairy herds^[1], costing the industry **up to \$250 million per year** in production loss^[2]. An estimated 5-10% of beef herds are also affected^[3]. Currently, no effective vaccines or specific treatments are available, making proper diagnostic testing pivotal for management efforts.

[1] USDA. NAHMS - Dairy, 2008. [2] Ott SL, et al. Prev Vet Med, June 1999. [3] USDA. NAHMS - Beef, 1999.

Performance for validated samples **Bovine serum***

* USDA licensed

433 positive samples
261 negative samples
(confirmed by fecal culture & PCR)



VMRD: **93.1%** Se, **90%** Sp
Competitor A: **91.0%** Se, **85.4%** Sp
Competitor B: **86.6%** Se, **89.3%** Sp

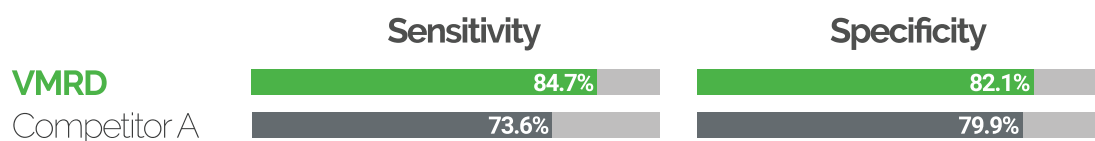
User-friendly qualities **Speed and simplicity**

- ✓ **No pre-incubation** step for absorption
- ✓ Results in **<75 min**
- ✓ **Ready-to-use** conjugate and controls
- ✓ Straightforward reagent preparation
- ✓ Simple reagent identification by color
- ✓ Reliable reagent consistency – no precipitation



Research data

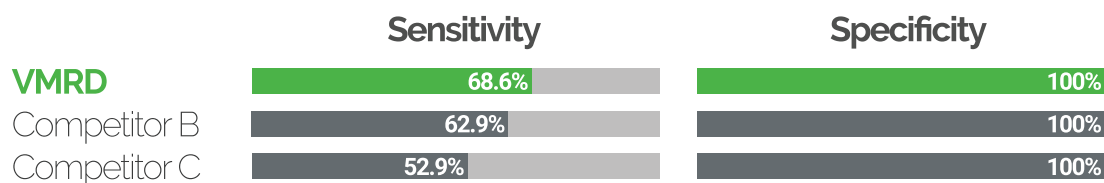
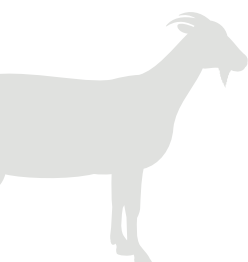
Bovine milk



Based on 59 positive and 224 negative samples with status confirmed by fecal culture and PCR

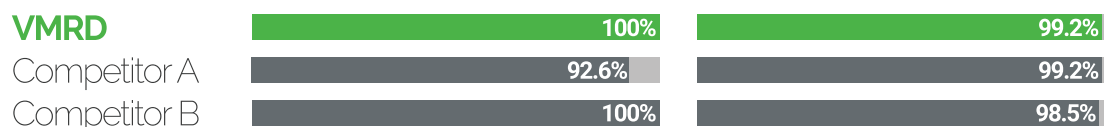
Research data

Caprine serum



Experimental infection

Based on 70 positive and 10 negative samples with status confirmed by necropsy



Natural infection

Based on 27 positive and 129 negative samples with status confirmed by culture and/or PCR

Taking control of Johne's Disease

with ELISA testing

- ✓ Cost-effective for assessing herd prevalence and risk
- ✓ Identifies target areas for focused management efforts
- ✓ Highly sensitive and specific for diagnosis of clinically affected animals

