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# Pioneer in Besnoitia testing. **PrioCHECK® BESNOITIA Ab**



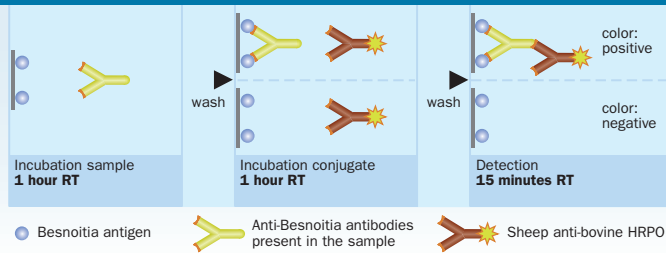
A HIGHLY RELIABLE, CONVENIENT, FAST AND COST-EFFICIENT  
ELISA FOR THE DETECTION OF ANTI-BESNOITIA ANTIBODIES.  
THE FIRST COMMERCIALY AVAILABLE DIAGNOSTIC TOOL FOR  
MONITORING AND SURVEILLANCE OF BOVINE BESNOITIOSIS.

# PrioCHECK® Besnoitia Ab

## Rely on PrioCHECK®



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Prod. No. 7610490 5 plate kit (450 tests)

### BESNOITIOSIS

Bovine besnoitiosis is a disease caused by the protozoan parasite *Besnoitia besnoiti*. The transmission of the disease and the life cycle of this parasite are to date not fully understood. A possible route of transmission might be by biting flies such as *Tabanus* and *Stomoxys*. All cattle breeds can be infected, independent of sex or age. Cattle can show severe clinical signs of the disease. Affected cattle experience different stages of the disease with a range of symptoms including skin thickening and swelling, hair loss, and skin necrosis. Infection in bulls can lead to infertility. In severe cases, the disease leads to the animal's death. Cysts of *Besnoitia besnoiti* (200–600 µm in diameter) are found in the conjunctival sclera of the eyes, subcutaneous tissue, fascia and mucosa of infected animals and remain in the animal's body for years. *Besnoitia besnoiti* infections can cause substantial economic losses and bovine health impairment. It is therefore crucial to identify particularly subclinically infected animals to minimize spreading of the disease.

Prionics now offers the PrioCHECK® Besnoitia Ab, a highly effective ELISA for the detection of anti-Besnoitia antibodies in bovine serum samples.

### WHAT ARE THE BENEFITS OF THE PrioCHECK® BESNOITIA Ab?

#### Reliable

The PrioCHECK® Besnoitia Ab is the first commercial test on the market and is a highly effective tool for comprehensive screening, monitoring and surveillance of bovine besnoitiosis within animal herds. It is also a useful tool for application in the animal trade sector to minimize the risk of introducing new infections to a region.

#### Convenient, fast, and easy to use

The PrioCHECK® Besnoitia Ab ELISA procedure follows a simple, four-step protocol, which makes the assay very easy to use. One plate with 90 diluted serum samples can be analyzed within two and a half hours. Colored buffers are provided to make handling of the assay even more convenient.

#### Cost-efficient

The PrioCHECK® Besnoitia Ab detects the besnoitiosis parasite at an early stage of infection, when clinical signs are absent. As a result, infected animals can be rapidly isolated, minimizing spread of the infection. Due to its simple procedure and short testing times, screening and monitoring of herds is carried out very efficiently and fast with the PrioCHECK® Besnoitia Ab.

### HIGH SPECIFICITY AND SENSITIVITY

The PrioCHECK® Besnoitia Ab test produced excellent results in a validation study carried out at the Veterinary Parasitology Laboratory of the Vetsuisse Faculty in Berne and at the National Veterinary College of Toulouse (ENVT). Tested were 107 confirmed negative samples (from a non-endemic country and from endemic zones, tested negative in Western blot) and 46 confirmed-positive samples. The positive samples either were clinical cases or were verified with the Western blot test. The PrioCHECK® Besnoitia Ab showed a sensitivity and a specificity of 98%.

### CONTACT INFORMATION

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