



PrioCHECK Porcine *Toxoplasma* Ab Kit

Safeguarding human and animal health

Benefits

Confidence in results

- Highly sensitive and specific
- Provides a clear differentiation between positive and negative results
- Provides reliable basis for the implementation of measures to decrease the presence of *Toxoplasma* in pig herds

Efficient

- Test follows a short, four-step ELISA protocol
- Test analyzes 90 prepared samples, typically in <150 minutes

Convenient

- Easy to use
- Serum, plasma, and meat juice samples can be tested
- Kit contains colored buffers to help reduce handling errors

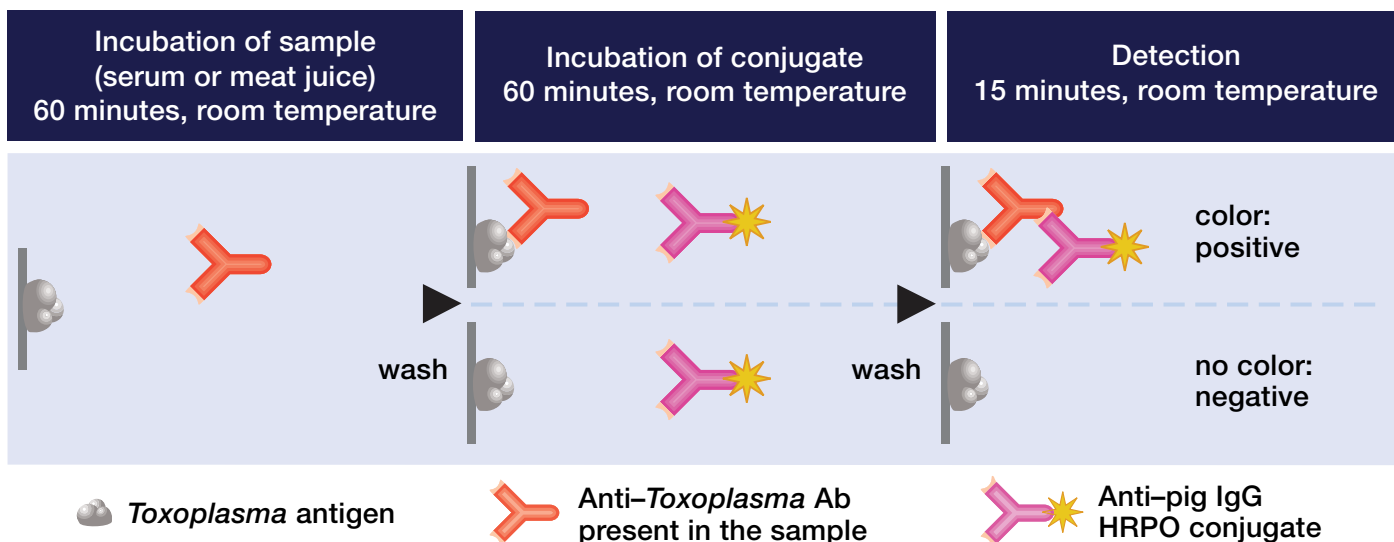
Cost-effectiveness

The same sample used in the Applied Biosystems™ PrioCHECK™ Porcine *Toxoplasma* Ab Kit test can also be used with other Applied Biosystems™ PrioCHECK™ diagnostic products for other pig diseases, including *Trichinella* and *Salmonella* infections. This makes the test an excellent and valuable tool for porcine food safety programs.

Sensitive and specific detection of *Toxoplasma* infections in pigs

The PrioCHECK Porcine *Toxoplasma* Ab Kit test showed a sensitivity of 98% and specificity of 99.6% in an evaluation of 50 positive and 270 negative porcine serum samples. With meat juice samples (33 positive and 116 negative), the sensitivity and specificity were 97% and 100%, respectively. The status of all samples was confirmed by an immunofluorescence antibody test, western blot, and ELISA in national reference laboratories.

PrioCHECK Porcine *Toxoplasma* Ab Kit protocol



Toxoplasmosis

Toxoplasmosis is caused by the protozoan parasite *Toxoplasma gondii*, which belongs to the family Sarcocystidae. *Toxoplasma* infections are widespread in humans and many other species of warm-blooded animals, including pigs. Occurrence is worldwide; however, the prevalence varies greatly among countries and depends on animal husbandry conditions. Infections occur as a result of consuming raw or uncooked meat that contains tissue cysts and tachyzoites, or by food or water contaminated with oocysts. *Toxoplasma*-infected pork is considered a significant source for human infection.

Although clinical disease in pigs is uncommon, an infection in the animal during the early stages of pregnancy (first 6–8 weeks) can cause abortion. In humans, *Toxoplasma* infections are mostly asymptomatic. Clinical signs are mostly known to appear in immunosuppressed individuals, where an infection can cause severe neurological disease. However, studies have shown that immune-competent people may develop clinical toxoplasmosis more frequently than previously thought. The Panel of Biological Hazards considers toxoplasmosis to be an underdetected and underreported disease in the European Union.¹

Ordering information

Product	Type	Quantity	Cat. No.
PrioCHECK Porcine <i>Toxoplasma</i> Ab Kit	ELISA	5-strip plate kit (450 tests)	7610230
Related products			
PrioCHECK Porcine <i>Trichinella</i> Ab Strip Kit	ELISA	5-strip plate kit (450 tests)	7610150
PrioCHECK Porcine <i>M. avium</i> Plate kit	ELISA	5-strip plate kit (450 tests)	7610720
PrioCHECK Porcine HEV Ab Strip Kit	ELISA	5-strip plate kit (450 tests)	4600010
PrioCHECK Porcine <i>Salmonella</i> Ab 2.0 Strip Kit	ELISA	5-strip plate kit (450 tests)	7610660

Reference

1. *The EFSA Journal* (2007) 583, 1–64.

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