



PrioCHECK Porcine HEV Ab Strip Kit

Comprehensive detection of hepatitis E virus (HEV)

The Applied Biosystems™ PrioCHECK™ Porcine HEV Ab Strip Kit is a reliable and efficient diagnostic ELISA test for detection of antibodies against hepatitis E virus (HEV) in porcine serum and meat juice samples. The test can be used for the purposes of monitoring and surveillance of potential zoonosis.

Streamline the monitoring process

- Only commercial ELISA based on HEV genotype 1 and 3 antigens
- The use of genotype 1 and 3 antigens helps significantly enhance the specificity and sensitivity of the test
- Sensitive and specific identification of infected animals allows for reliable monitoring and surveillance of the status of the virus in pig herds, enabling efficient implementation of appropriate measures in infected herds

Efficiency

- Fast and robust ELISA with a short four-step protocol
- The test allows for cost-effective testing of large numbers of samples
- Same sample can be tested with other Applied Biosystems™ PrioCHECK™ tests for swine diseases such as *Salmonella*, *Toxoplasma*, or *Trichinella* infections. Tests can be combined easily with no additional sample needed, allowing efficient assessment of the herd's health status

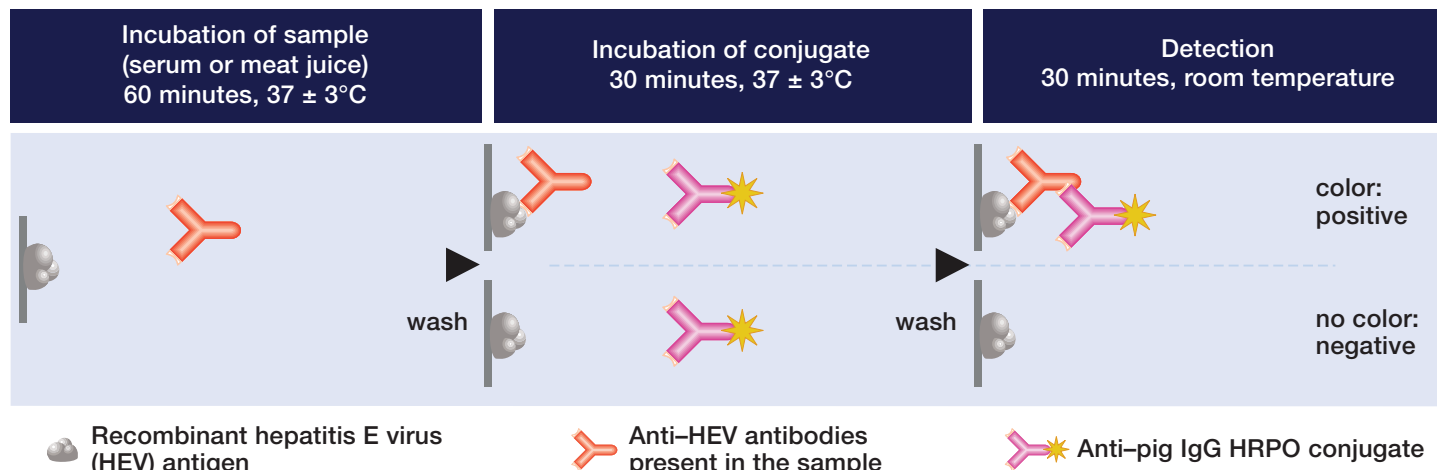
Performance

The PrioCHECK Porcine HEV Ab Strip Kit has shown a sensitivity of 91.0% and a specificity of 94.0% on 365 positive and 151 negative pig serum samples.* As a reference method, the recomLine HEV assay of Mikrogen GmbH, a commercial test for human diagnostics, was used.

| | | PrioCHECK Porcine HEV Ab Strip Kit | | |
|----------------------------------|----------|------------------------------------|--------------|--------|
| | | Positive | Negative | Total |
| Reference method (recomLine HEV) | Positive | 332 | 33 | 365 |
| | Negative | 9 | 142 | 151 |
| | Total | 341 | 175 | 516 |
| Sensitivity: | | 90.96% | Specificity: | 94.04% |

recomLine was developed by Mikrogen GmbH, Neuried, Germany.

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Hepatitis E virus

HEV belongs to the family *Hepeviridae*. HEV consists of one serotype that is divided into 4 genotypes. Genotype 3 is the most frequently occurring genotype in pigs in industrialized countries. Infections in pigs are mostly asymptomatic. Pigs excrete the virus through urine and feces. The virus has been shown to accumulate in muscle tissue and several organs in pigs. In humans, HEV infections can follow an asymptomatic or subclinical course, but can also become acute. Acute hepatitis E is a severe illness; its clinical manifestation is comparable to that of hepatitis A, with an estimated mortality rate of 0.5–4.0%.

Zoonotic transmission

HEV infections in humans have long been thought to occur only in travelers to HEV-endemic regions. In recent years, however, increasing numbers of sporadic HEV infections in non-endemic regions have been reported that cannot be associated with traveling, and increasing evidence points to transmission from farmed pigs to humans. In most countries, there is limited knowledge about the prevalence of HEV infections in pigs, and consequently about the potential risk for consumers. Therefore, there is a need to gain more information and to implement control strategies.

Ordering information

| Product | Type | Quantity | Cat. No. |
|--|-------|-------------------------------|----------|
| PrioCHECK Porcine HEV Ab Strip Kit | ELISA | 5-strip plate kit (450 tests) | 4600010 |
| Related products | | | |
| PrioCHECK Porcine <i>Trichinella</i> Ab Strip Kit | ELISA | 5-strip plate kit (450 tests) | 7610150 |
| PrioCHECK Porcine <i>Toxoplasma</i> Ab Kit | ELISA | 5-strip plate kit (450 tests) | 7610230 |
| PrioCHECK Porcine <i>M. avium</i> Plate Kit | ELISA | 5-strip plate kit (450 tests) | 7610720 |
| PrioCHECK Porcine <i>Salmonella</i> Kit | ELISA | 50-plate kit (4,500 tests) | 7610480 |
| PrioCHECK Porc. <i>Salmonella</i> Ab 2.0 Strip Kit | ELISA | 5-plate kit (450 tests) | 7610660 |
| PrioCHECK Porc. <i>Salmonella</i> Ab 2.0 Strip Kit | ELISA | 50-plate kit (4,500 tests) | 7610670 |

* Caroline Werres, Ph.D. thesis, LMU Munich: Entwicklung eines ELISA zum Nachweis von Hepatitis E Antikörpern aus Serum und Fleischsaft des Schweins. Munich, 2010.

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