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PrioCHECK *Trichinella* Alternative Artificial Digestion (AAD) Kit

Artificial digestion assay for the detection of *Trichinella* larvae—a safer, cleaner, and more reliable alternative to the current pepsin digestion method

Benefits

Safer and cleaner

- All components are delivered as liquid solutions—no handling of enzyme powder
- The digestion step of the assay runs at a slightly alkaline pH—no handling of concentrated acids

Standardized production

- Uses a recombinantly produced enzyme other than pepsin
- Standardized enzyme helps ensure constant performance
- Good enzyme availability—supply of the enzyme is not a limiting factor

High-quality standards

- The kit is produced according to our high-quality standards
- Each batch is controlled and released by our quality management team

The Applied Biosystems™ PrioCHECK™ *Trichinella* AAD Kit uses a protocol similar to the traditional artificial digestion test.

Approved by the European Union

The Community Reference Laboratory (CRL) for *Trichinella* in Rome has extensively validated the performance of the PrioCHECK *Trichinella* AAD Kit, approving the test as an official method for the *in vitro* detection of *Trichinella* spp. in domesticated swine meat. The PrioCHECK *Trichinella* AAD is now listed in European Commission (EC) Regulation 2075/2005 as an equivalent to the traditional artificial digestion testing method of domestic swine meat.

Validated for use in individual carcass testing

The PrioCHECK *Trichinella* AAD Kit detected all samples derived from pigs experimentally infected with 40,000 *T. spiralis* larvae (ISS 003). The animals were slaughtered 10 weeks postinfection.

On pig meat samples spiked with *T. spiralis*, *T. pseudospiralis*, and *T. britovi* larvae (ranging from 3 to 20 larvae), the PrioCHECK *Trichinella* AAD Kit showed comparable recovery rates to those obtained with the traditional artificial digestion method.

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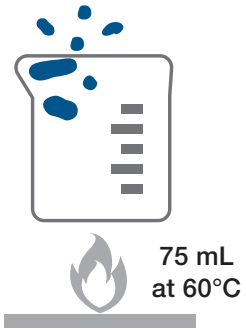
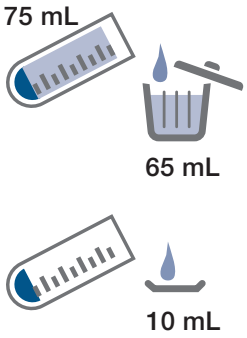
PrioCHECK *Trichinella* AAD Kit protocol outline



Digest chopped meat in enzyme solution for 20 minutes.

Pour digestion solution through a sieve into a separate funnel and let the sample sediment. Run off 75 mL digestion solution into a tube.

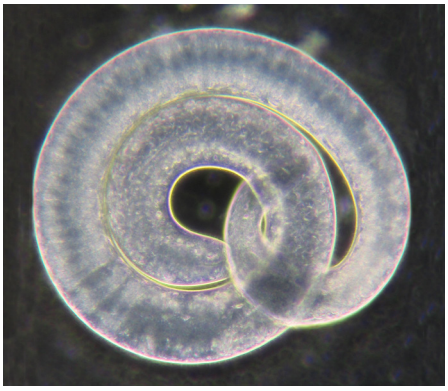


Let the digestion solution sediment and discard 65 mL of the supernatant.

The remaining 10 mL is examined for the presence of *Trichinella* larvae in a Petri dish.

Trichinellosis

Trichinellosis is a zoonotic disease caused by the larvae of the nematode *Trichinella* that occurs worldwide. *Trichinella* infects many carnivorous and omnivorous animal species, including domestic pigs. Currently, eight species and six genotypes have been recognized in this genus. The species that are of main importance in Europe are *Trichinella spiralis*, *Trichinella britovi*, *Trichinella pseudospiralis*, and *Trichinella nativa*. Humans can be infected by eating raw or insufficiently cooked meat.



Under the EC Directive No. 2075/2005, all pigs slaughtered for human consumption have to be tested for trichinellosis by artificial digestion to check for the presence of *Trichinella* larvae. The new artificial digestion assay, PrioCHECK *Trichinella* AAD, is intended for use in carcass testing and is a safer, cleaner, and more reliably produced alternative to the current pepsin digestion method.

Ordering information

Product	Type	Quantity	Cat. No.
PrioCHECK *Trichinella* AAD Kit	Artificial Digestion	10 assays (up to 1,000 animals)	7620030
PrioCHECK *Trichinella* AAD Kit	Artificial Digestion	4,000 assays (up to 400,000 animals)	7620040
Related product			
PrioCHECK Porcine *Trichinella* Ab Strip Kit	ELISA	5-strip plate kit (450 tests)	7610150

Find out more at **thermofisher.com/animalhealth**

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