Shigatoxin: Still walking on a tight rope?

1/3 of the farms tested positive for shigatoxin.

### Results for Shigatoxin detection

<table>
<thead>
<tr>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of positive samples (more than one PCR conducted per sample)</td>
<td>108 %</td>
</tr>
<tr>
<td>No. of positive farms</td>
<td>50 %</td>
</tr>
<tr>
<td>No. of positive PCRs on Stx2e (more than one PCR conducted per sample)</td>
<td>122 %</td>
</tr>
<tr>
<td>No. of Stx2e positive PCRs from non-hemolytic E. coli</td>
<td>13 %</td>
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</tbody>
</table>

In 2015, 462 samples from 167 farms were analysed for virulence factors via multiplex PCR (821 runs). All samples came from pigs with the suspicion of Shigatoxin associated disease. A significant number of non-hemolytic E. coli proved to be positive for Stx2e.

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Find out now with a STEC-CHECK kit for the diagnosis and differentiation of E. coli
- Complements clinical examination
- Contributes to decision-making
- For targeted disease prevention
Diagnose and differentiate *E. coli* subtypes with the STEC-CHECK from IDT

For an accurate diagnosis of Shigatoxin producing *E. coli*, IDT offers you the free laboratory analysis of feces samples or parts of the jejunum. IDT also supports you in the interpretation of the results: Our technical service team are happy to assist you.

How to do it:

1. Ask your IDT representative for the STEC-CHECK voucher.

2. Send the samples – preferably chilled at 2–8 °C – to the lab which is indicated on the voucher.

3. Within a few days you will receive the test results. IDT bears the cost of the test. If you have any questions, please contact your IDT representative.

These types of samples will lead to interpretable results:

- **3 feces swabs** with AMIES media from 15 pooled feces samples (5 animals in one tube) or
- **parts of the jejunum** from 1 to 3 animals with a max. length of 10 cm each

The following diagnostics will be carried out:

- Analysis via culture for hemolytic and non-hemolytic *E. coli*
- Analysis via PCR for up to 6 *E. coli* isolates per sample for Shigatoxin 2e (*Stx2e*) as well as other relevant enterotoxins and adhesion factors

Talk to your local IDT representative or visit [www.shigatoxin.com](http://www.shigatoxin.com)

* You can reach the Technical Service Team
  
  **via telephone** 0049 – 152 018 275 81 0049 – 152 018 714 42

  **via email** verena.gotter@idt-biologika.de silke.wacheck@idt-biologika.de

**Ecoporc SHIGA** suspension for injection for pigs. Qualitative and quantitative composition: Each dose of 1 ml contains: Active substance: Genetically modified recombinant *Stx2e* antigen: ≥ 3.2 x 10⁶ ELISA units. Adjuvant: Aluminium (as hydroxide) max: 3.5 mg. Excipient: Thiomersal max: 0.115 mg. Indications for use: Active immunisation of piglets from the age of 4 days, to reduce the mortality and clinical signs of oedema disease caused by *Stx2e* toxin produced by *E. coli* (STEC). Onset of immunity: 21 days after vaccination. Duration of immunity: 105 days after vaccination. Contraindications: Do not use in case of hypersensitivity to the active substance, to the adjuvant or to any of the excipients. Adverse reactions: Commonly very small local reactions such as mild swelling at the injection site (maximum of 5 mm) may be observed, but these reactions are transient and subside within a short time (up to seven days) without treatment. Clinical signs such as temporary mild behavioural disturbances can uncommonly be observed after application of Ecoporc SHIGA. Commonly a slight rise in body temperature (maximum of 1.7 °C) may occur after injection. But these reactions subside within a short time (maximum of two days) without treatment. Withdrawal period: Zero days. *Under veterinary prescription only. Marketing Authorisation Holder: IDT Biologika GmbH, Am Pharmapark, 06861 Dessau-Rosslau, Germany.*