

## Environmental laboratories

### Proficiency test BTOX 11/2017 – Bacterial toxicity test using bioluminescent bacteria

Ecotoxicity test using bioluminescent bacteria *Alivibrio fischerii* is a widely used and standardized method in determining ecotoxicity in water, sewage water, sediments, and soils. Laboratories that provide the test may prove their competence by taking part in proficiency test.

Prof test SYKE will organize a proficiency test for bioluminescent bacteria test performed according to standards ISO 11348-3 (2007) or ISO 21338 (2010). Measurement results obtained both with tube and plate reader luminometers are accepted. In this proficiency test both clear and dark-coloured samples are provided, the latter designed to reflect the sample matrix of the real samples which often are dark-coloured. The samples are delivered on 16<sup>th</sup> October 2017.

Prof test SYKE is the Proficiency Testing Provider No. PT01 (EN ISO/IEC 17043:2010) accredited by FINAS (Finnish Accreditation Service, [www.finas.fi/sites/en](http://www.finas.fi/sites/en)). The organizing of this test is not included in the accreditation scope, but its organization follows the principles of accredited activity.

#### 1 General information

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## 2 Samples and measurands

In this proficiency test each participant will receive two samples for testing. Both samples are synthetic liquid samples:

- **Clear:** Clear sample containing 3,5-dichlorophenol (3,5-DCP) at a low concentration, 100 mL sample volume in a plastic bottle
- **Color:** Dark-coloured sample, 100 mL sample volume in a plastic bottle

## 3 Registration

The registration is open until **25th of September 2017**.

Registration to the proficiency test is done on the electronic client interface, ProfTestWEB (<https://www.wp5.ymparisto.fi/Labtest/en>).

If you have problems with ProfTestWEB, or you'll need a username and password, please contact the provider via [proftest@environment.fi](mailto:proftest@environment.fi).

## 4 Delivery of samples

The samples will be sent so that they should arrive latest on **Thursday 19<sup>th</sup> of October 2017**. If the samples have not arrived on time or samples are broken/missing, please contact the provider by e-mail ([proftest@environment.fi](mailto:proftest@environment.fi)) or by phone (Johanna Järvisjö, tel. +358 295 251 243).

The provider is not responsible of the possible clearance or customs fee of the samples.

## 5 Measurements

The samples should be kept cool (4 °C) or frozen (-18 °C) and analysis should be performed latest on **Friday 27<sup>th</sup> of October**. Analysis and possible sample treatments should be performed according to the normal procedures by the participant.

## 6 Results and reporting

The results for the proficiency test shall be reported latest on **Friday 3<sup>rd</sup> of November 2017**.

The preliminary result lists will be distributed to the participants in November in week 47 (20<sup>th</sup> to 24<sup>th</sup> of November 2017). The final report will be published in ProfTestWEB and on ProfTest website ([www.syke.fi/proftest/en](http://www.syke.fi/proftest/en)) latest in January 2017. *The report is published in English, if more than 10 % of the participants are other than Finnish speaking.*

## 7 Assigned values and the evaluation of the results

Performance evaluation will be based on z scores, where the mean EC50 value from multiple samples tested by SYKE will be used as the assigned value. The preliminary standard deviation for proficiency assessment will be given in the sample letter. In special cases also E<sub>n</sub> and D% scores could be used for the result evaluation.

## 8 Confidentiality

The results of the participants will be treated anonymously.

## 9 Participation fee

The participation fee for this proficiency test is **500 €** (VAT 0%), including both samples. If the price is subjected to VAT, it is 24%. If the participant orders additional samples, they are charged **100 €** each. The additional samples are ordered with the registration.

The participant is responsible for possible clearance or customs fees of the samples.

The invoice will be sent after reporting the preliminary results. If the invoice address or any other information related to invoicing is corrected after the invoicing, extra handling cost will be charged.

Please do not hesitate to ask if you need further information!

Kind regards,



Johanna Järvistö  
Researcher



Mirja Leivuori  
Head of Unit