



Original thinking... applied

## Collembolan (Springtails) (*Folsomia candida*)

For plant protection products applied directly to the soil granules, seed treatments and pellets, or where contamination of the soil is possible, registration data are required on non-target soil organisms under EU Regulation (EC) No 1107/2009.

The Collembolan *Folsomia candida* is considered to be a relevant representative of soil fauna and collembola in particular. It is distributed worldwide and is easily reared in the laboratory, making it an ecological relevant test species.

## LABORATORY TESTS

### REPRODUCTION TEST

Fera offers standard laboratory tests with the *Folsomia candida* following OECD guidelines.

#### How we carry out the tests

Collembola are exposed to the test compound in a treated artificial soil (according to OECD requirements). The product to be tested is incorporated into the substrate. Effects on mortality and reproductive output are assessed after 21 days of exposure, when collembola are extracted from the test system using water and dye and counted.

#### Endpoints

Endpoints for the test are:

- Mortality after 21 days of exposure
- Reproductive capacity of collembola
- EC<sub>10</sub> (dose rate causing 10% reduction in reproductive rate), and/or NOEC no observable effect concentration

## ADDITIONAL TESTING

Fera's studies are GLP-compliant and can be adapted to provide bespoke tests that meet your specific data requirements. Fera also offers in-house dose verification or residue analysis to validated methods.

### Test guidelines

OECD Guideline No. 232 (2016) for the Testing of Chemicals  
"Collembolan reproduction test in soil".

## MORE ABOUT FERA

Fera is based at the National Agri-Food Innovation Campus near York, UK. We have a long track record of developing and providing ecotoxicology services to support environmental risk assessments for companies developing plant-protection products.

Our scientists combine extensive expertise with Fera's advanced resources and GLP-compliant laboratories, to assess the impact of plant protection products on terrestrial non-target arthropods.

We'll work in partnership with you to devise and conduct the appropriate tests to provide the essential data you need for robust environmental risk assessments.

## GET IN TOUCH

For more information and to book a test, call Fera on **+44 (0)300 100 0321**, email **[sales@fera.co.uk](mailto:sales@fera.co.uk)** or visit **[www.fera.co.uk/terrestrial-ecotoxicology](http://www.fera.co.uk/terrestrial-ecotoxicology)**

