

Package ‘ec50estimator’

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Type Package

Title An Automated Way to Estimate EC50 for Stratified Datasets

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Description An implementation for estimating Effective control to 50% of growth inhibition (EC50) for multi isolates and stratified datasets. It implements functions from the drc package in a way that is displayed a tidy data.frame as output. Info about the drc package is available in Ritz C, Baty F, Streibig JC, Gerhard D (2015) <[doi:10.1371/journal.pone.0146021](https://doi.org/10.1371/journal.pone.0146021)>.

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Encoding UTF-8

LazyData true

Imports dplyr, tidyr, tibble, magrittr, drc

RoxygenNote 7.0.2

VignetteBuilder knitr

Suggests knitr, rmarkdown, ggplot2, ggridges, cowplot

URL <https://github.com/AlvesKS/ec50estimator>

BugReports <https://github.com/AlvesKS/ec50estimator/issues>

NeedsCompilation no

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multi_isolate	<i>Multi isolate dataset</i>
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Description

Dataset containing simulated data of mycelial growth under increasing fungicide doses for 50 fungal isolates, two types of field (conventional and organic), and two different fungicides.

Usage

```
data("multi_isolate")
```

Format

A data frame with 3500 observations on the following 5 variables.

isolate a numeric vector

field a factor with levels Conventional Organic

fungicida a factor with levels Fungicide A Fungicide B

dose a numeric vector

growth a numeric vector

Examples

```
data(multi_isolate)
## maybe str(multi_isolate) ; plot(multi_isolate) ...
```

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