Package 'tidyplate'

February 4, 2024

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Type Package
Title Transform Microplate Data into Tidy Dataframes
Version 1.1.0
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Description The goal of 'tidyplate' is to help researchers convert different types of microplates into tidy dataframes which can be used in data analysis. It accepts xlsx and csv files formatted in a specific way as input. It supports all types of standard microplate formats such as 6-well, 12-well, 24-well, 48-well, 96-well, 384-well, and, 1536-well plates.
Imports janitor, readr, readxl, tibble, tidyr, dplyr, purrr, rlang
License MIT + file LICENSE
Encoding UTF-8
RoxygenNote 7.3.1
<pre>URL https://github.com/shubhamdutta26/tidyplate, https://www.shubhamdutta.com/tidyplate/</pre>
BugReports https://github.com/shubhamdutta26/tidyplate/issues
Suggests knitr, rmarkdown, testthat (>= 3.0.0)
Config/testthat/edition 3
VignetteBuilder knitr
Language en-GB
NeedsCompilation no
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Repository CRAN
Date/Publication 2024-02-04 11:30:03 UTC
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check_plate	Checks whether the input file can be used to transform to a tidy plate using the tidy_plate() function

Description

Checks whether the input file can be used to transform to a tidy plate using the tidy_plate() function

Usage

```
check_plate(file, well_id = "well", sheet = 1)
```

Arguments

file	This is the path to a xlsx or csv file containing data for the following types of plates: 6, 12, 24, 48, 96, 384, and 1536. The plate format is described below.
well_id	This is takes a character of length 1 and cannot be the same as individual plate names.
sheet	If file type is xlsx this is the sheet name (character) or number (integer).

Value

An error or a message saying that input file can be used with the tidy_plate() function

Examples

```
file_path <- system.file(
  "extdata",
  "example_12_well.xlsx",
  package = "tidyplate"
)
check_plate(file = file_path)</pre>
```

tidy_plate

Transforms a plate to a tidy dataframe

Description

Transforms a plate to a tidy dataframe

Usage

```
tidy_plate(file, well_id = "well", sheet = 1)
```

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Arguments

file	This is the path to a xlsx or csv file containing data for the following types of
	plates: 6, 12, 24, 48, 96, 384, and 1536. The plate format is described below.
well_id	This is takes a character of length 1 and cannot be the same as individual plate
	names.
sheet	If file type is xlsx this is the sheet name (character) or number (integer).

Value

A tidy dataframe

Examples

```
file_path <- system.file("extdata", "example_12_well.xlsx", package = "tidyplate")
data_12 <- tidy_plate(file = file_path)
head(data_12)</pre>
```

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