

Package ‘gDRimport’

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Type Package

Title Package for handling the import of dose-response data

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Description The package is a part of the gDR suite. It helps to prepare raw drug response data for downstream processing. It mainly contains helper functions for importing/loading/validating dose-response data provided in different file formats.

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<https://gdrplatform.github.io/gDRimport/>

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Contents

| | |
|--|----|
| gDRimport-package | 4 |
| .check_against_single_template_sheet | 5 |
| .check_file_structure | 5 |
| .createPseudoData | 6 |
| .extractDoseResponse | 6 |
| .extract_or_create_assay | 6 |
| .fill_empty_wells | 7 |
| .get_plate_size | 7 |
| .removeNegatives | 8 |
| .standardize_untreated_values | 8 |
| are_template_sheets_valid | 9 |
| check_metadata_against_spaces | 9 |
| check_metadata_field_names | 10 |
| check_metadata_headers | 10 |
| check_metadata_names | 11 |
| check_metadata_req_col_names | 11 |
| convert_MAE_to_PSet | 12 |
| convert_pset_to_df | 13 |
| correct_template_sheets | 14 |
| detect_file_format | 14 |
| enhance_raw_edited_EnVision_df | 15 |
| fix_typos_with_reference | 15 |
| gdr_test_data-class | 16 |
| getPSet | 17 |
| get_df_from_raw_edited_EnVision_df | 18 |
| get_df_from_raw_unedited_EnVision_df | 19 |
| get_EnVision_properties | 19 |
| get_excel_sheet_names | 20 |
| get_exception_data | 20 |

| | |
|---|----|
| get_expected_template_sheets | 21 |
| get_plate_info_from_template_xlsx | 21 |
| get_test_D300_data | 22 |
| get_test_data | 22 |
| get_test_EnVision_data | 23 |
| get_test_Tecan_data | 23 |
| get_test_tsv_data | 24 |
| get_xl_sheets | 24 |
| import_D300 | 25 |
| is_readable_v | 26 |
| load_data | 26 |
| load_manifest | 27 |
| load_results | 28 |
| load_results_EnVision | 28 |
| load_results_Tecan | 29 |
| load_results_tsv | 29 |
| load_templates | 30 |
| load_templates_tsv | 30 |
| load_templates_xlsx | 31 |
| manifest_path | 31 |
| mgrepl | 32 |
| parse_D300_xml | 32 |
| read_EnVision_delim | 33 |
| read_EnVision_xlsx | 33 |
| read_excel_to_dt | 34 |
| read_in_EnVision_file | 34 |
| read_in_manifest_file | 35 |
| read_in_results_Tecan | 35 |
| read_in_result_files | 36 |
| read_in_template_sheet_xlsx | 36 |
| read_in_template_xlsx | 37 |
| read_in_tsv_template_files | 37 |
| read_ref_data | 38 |
| result_path | 38 |
| save_drug_info_per_well | 39 |
| setEnvForPSet | 39 |
| standardize_record_values | 40 |
| template_path | 40 |
| validate_template_xlsx | 41 |

gDRimport-package

gDRimport: Package for handling the import of dose-response data

Description

The package is a part of the gDR suite. It helps to prepare raw drug response data for downstream processing. It mainly contains helper functions for importing/loading/validating dose-response data provided in different file formats.

Value

package help page

Note

To learn more about functions start with `help(package = "gDRimport")`

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See Also

Useful links:

- <https://github.com/gdrplatform/gDRimport>
- <https://gdrplatform.github.io/gDRimport/>
- Report bugs at <https://github.com/gdrplatform/gDRimport/issues>

`.check_against_single_template_sheet`

Evaluate if template file with single sheet is present, if the name of the sheet is correct and if it can be fixed

Description

get sheets for given set of XLS files

Usage

`.check_against_single_template_sheet(ts)`

Arguments

ts list with template sheets info

Value

logical flag

`.check_file_structure` *Check the structure of raw data*

Description

Check the structure of raw data

Usage

```
.check_file_structure(  
  df,  
  filename,  
  sheet_name,  
  readout_offset,  
  n_row,  
  n_col,  
  bcode_idx,  
  bcode_col  
)
```

Value

NULL invisibly.

`.createPseudoData` *Add in pseudo-data for duration and cell reference division time*

Description

Add in pseudo-data for duration and cell reference division time

Usage

```
.createPseudoData(dt)
```

Value

data.table

`.extractDoseResponse` *Get dose and viability readouts and melt into large data table*

Description

Get dose and viability readouts and melt into large data table

Usage

```
.extractDoseResponse(pset)
```

Value

data.table with dose-reponse data

`.extract_or_create_assay`
Extracts an assay from a SummarizedExperiment object or creates a new one if it does not exist

Description

This function takes a SummarizedExperiment object and an assay name as input. If the specified assay already exists in the SummarizedExperiment object, it is returned. Otherwise, a new assay with the specified name is created and added to the SummarizedExperiment object. The new assay is initialized with NA values. This is useful for when multiple Summarized Experiments in a given MAE do not have the same assays. And it is necessary to have the same assays in all Summarized Experiments in order to convert the MAE to a PSet.

Usage

```
.extract_or_create_assay(SE, assay_name)
```

Arguments

SE A SummarizedExperiment object
assay_name A character string specifying the name of the assay to extract or create

Value

A SummarizedExperiment object with the specified assay

.fill_empty_wells *Correct plates with not fully filled readout values*

Description

Correct plates with not fully filled readout values

Usage

```
.fill_empty_wells(  
  df,  
  plate_rows,  
  data_rows,  
  exp_row,  
  exp_col,  
  numeric_regex = "\\d+$"  
)
```

Value

data.table with corrected plates data

.get_plate_size *Get plate size*

Description

Get plate size

Usage

```
.get_plate_size(df)
```

Details

All plate sizes assume 1.5x nrows = ncolumns.

Value

charvec with plate dims

`.removeNegatives` *Remove negative viabilities*

Description

Remove negative viabilities

Usage

`.removeNegatives(dataset)`

Value

data.table with positive values in column ReadoutValue

`.standardize_untreated_values`
Standardize untreated values to ignore cases

Description

Standardize untreated values to ignore cases

Usage

`.standardize_untreated_values(df)`

Value

data.table with standardized untreated values

are_template_sheets_valid
are template sheet valid?

Description

are template sheet valid?

Usage

are_template_sheets_valid(ts)

Arguments

ts list with (per file) template sheets

Value

logical flag

See Also

get_xl_sheets

check_metadata_against_spaces
Check metadata against spaces

Description

Check metadata against spaces

Usage

check_metadata_against_spaces(corrected_names, df_name)

Arguments

corrected_names a charvec with corrected colnames of df
df_name a name of data.table (" by default)

Value

a charvec with corrected colnames of df

check_metadata_field_names

Check metadata field names

Description

Check metadata field names

Usage

```
check_metadata_field_names(corrected_names, df_name)
```

Arguments

corrected_names

a charvec with corrected colnames of df

df_name

a name of data.table ("" by default)

Value

a charvec with corrected colnames of df

check_metadata_headers

Check whether metadata headers are correct and make fixes if needed

Description

Check whether metadata headers are correct and make fixes if needed

Usage

```
check_metadata_headers(corrected_names, df_name)
```

Arguments

corrected_names

a charvec with corrected colnames of df

df_name

a name of data.table ("" by default)

Value

a charvec with corrected colnames of df

check_metadata_names *check_metadata_names*

Description

Check whether all metadata names are correct

Usage

```
check_metadata_names(col_df, df_name = "", df_type = NULL)
```

Arguments

col_df a character with colnames of df
df_name a name of data.table (" " by default)
df_type a type of a data.table (NULL by default)

Value

a charvec with corrected colnames of df

Examples

```
td <- get_test_data()
m_file <- manifest_path(td)
m_data <- read_excel_to_dt(m_file)
result <- check_metadata_names(col_df = colnames(m_data))
```

check_metadata_req_col_names

Check metadata for required column names

Description

Check metadata for required column names

Usage

```
check_metadata_req_col_names(col_df, df_name, df_type)
```

Arguments

col_df a charvec with corrected colnames of df
df_name a name of data.table (" " by default)
df_type a type of a data.table (NULL by default)

Value

NULL invisibly.

convert_MAE_to_PSet *Convert MultiAssayExperiment to TreatmentResponseExperiment*

Description

This function converts a `MultiAssayExperiment` generated by `gDR` into a `TreatmentResponseExperiment` for use in the `PharmacGx` package. The resulting `PharmacSet` can be used for pharmacogenomic analysis of drug response.

Usage

```
convert_MAE_to_PSet(mae, pset_name)
```

Arguments

`mae` A `MultiAssayExperiment` object generated by `gDR`.

`pset_name` A character string specifying the name of the resulting `PharmacSet` object.

Value

A `PharmacSet` object.

Examples

```
# Convert a MultiAssayExperiment object to a PharmacSet object
m <- 20
n <- 10
rnames <- LETTERS[1:m]
cnames <- letters[1:n]
ref_gr_value <- matrix(runif(m * n), nrow = m, ncol = n, dimnames = list(rnames, cnames))
se <- SummarizedExperiment::SummarizedExperiment(assays = list(RefGRvalue = ref_gr_value),
                                                  rowData = S4Vectors::DataFrame(rnames),
                                                  colData = S4Vectors::DataFrame(cnames))
mae <- MultiAssayExperiment::MultiAssayExperiment(experiments = list("single-agent" = se))
convert_MAE_to_PSet(mae, "my_pset")
```

| | |
|--------------------|--|
| convert_pset_to_df | <i>Convert a PharmacoSet to a data.table that is prepare for input into gDR pipeline</i> |
|--------------------|--|

Description

Convert a PharmacoSet to a data.table that is prepare for input into gDR pipeline

Usage

```
convert_pset_to_df(pharmacoset, run_parallel = TRUE, workers = 2L)
```

Arguments

| | |
|--------------|---|
| pharmacoset | PharmacoSet object |
| run_parallel | logical, TRUE (default) if to run functions in Parallel, FALSE to run in serial |
| workers | integer, number of workers defaults to 2L if run_parallel is TRUE |

Value

data.table of PharmacoSet's dose response data with column names aligned with gDR standard

Author(s)

Jermiah Joseph – collaboration with BHKLab

Examples

```
pset <- suppressMessages(getPSet(  
  "Tavor_2020",  
  psetDir = system.file("extdata/pset", package = "gDRimport"),  
  use_local_PSets_list = TRUE  
))  
dt <- convert_pset_to_df(pset)  
gDRutils::reset_env_identifiers()
```

`correct_template_sheets`*Correct names of the template sheets (if required)*

Description

Correct names of the template sheets (if required)

Usage

```
correct_template_sheets(tfiles)
```

Arguments

tfiles charvec with paths to template files

Value

charvec with paths to corrected sheet names

`detect_file_format` *Detect format of results data*

Description

Detect format of results data

Usage

```
detect_file_format(results_file)
```

Arguments

results_file path to results data

Value

string of the detected file format

Examples

```
td2 <- get_test_Tecan_data()
detect_file_format(td2$r_files[1])
```

enhance_raw_edited_EnVision_df
Enhance raw edited EnVision data.table

Description

Enhance raw edited EnVision data.table

Usage

```
enhance_raw_edited_EnVision_df(df, barcode_col, headers)
```

Arguments

| | |
|-------------|--------------------------------|
| df | raw data.table |
| barcode_col | column number for barcode data |
| headers | list with the headersa |

Value

data.table derived from EnVision data

fix_typos_with_reference
Fix typos using reference data

Description

Fix typos using reference data Evaluate given list of ids and try to update them

Usage

```
fix_typos_with_reference(  
  data,  
  ref,  
  method = c("exact", "grepl", "adist"),  
  fix_underscores = FALSE  
)
```

Arguments

| | |
|-----------------|---|
| data | list of charvec(s) or charvec with data |
| ref | charvec with reference data |
| method | charvec type of the method to be used 'exact' is used to find identical entries from 'ref' in the data (after corrections and uppercase'ing) 'grepl' is used to find entries from 'ref' that might be somehow pre- or post- fixed |
| fix_underscores | logical flag fix the issues with underscores in data identifiers? |

Value

list or charvec with corrected data

gdr_test_data-class *gDR Test Data object*

Description

Object class gdr_test_data is build by function [get_test_data\(\)](#)

Value

object class gdr_test_data with primary test data

Slots

manifest_path character, path to manifest file
 result_path character, path(s) to results file
 template_path character, path(s) to data.table with template data
 ref_m_df character, data.table with manifest data
 ref_r1_r2 character, path to reference file with raw data for treated & untreated
 ref_r1 character, path to reference file with raw data for treated
 ref_t1_t2 character, path to reference template file with treated & untreated data
 ref_t1 character, path to reference template file with treated data

| | |
|---------|------------------------|
| getPSet | <i>Get PharmacoSet</i> |
|---------|------------------------|

Description

Get PharmacoSet

Usage

```
getPSet(  
  pset_name,  
  psetDir = getwd(),  
  canonical = FALSE,  
  timeout = 600,  
  use_local_PSets_list = FALSE  
)
```

Arguments

| | |
|----------------------|---|
| pset_name | string with the name of the PharmacoSet |
| psetDir | string with the temporary directory for the PharmacoSet |
| canonical | logical flag indicating if the PSet canonical |
| timeout | maximum number of seconds allowed for PSet download |
| use_local_PSets_list | logical flag if PSets list should be used from local. If FALSE PSets list will be taken from web. |

Value

PharmacoSet object

Examples

```
suppressMessages(getPSet(  
  "Tavor_2020",  
  psetDir = system.file("extdata/pset", package = "gDRimport"),  
  use_local_PSets_list = TRUE  
))
```

`get_df_from_raw_edited_EnVision_df`*Get final results (as a data.table) from raw edited EnVision data.table*

Description

Get final results (as a data.table) from raw edited EnVision data.table

Usage

```
get_df_from_raw_edited_EnVision_df(  
  df,  
  barcode_idx,  
  barcode_col,  
  n_row,  
  n_col,  
  fname,  
  sheet_name,  
  headers  
)
```

Arguments

| | |
|--------------------------|-------------------------------------|
| <code>df</code> | raw data.table |
| <code>barcode_idx</code> | numeric vector with barcode indices |
| <code>barcode_col</code> | column number for barcode data |
| <code>n_row</code> | number of rows |
| <code>n_col</code> | number of columns |
| <code>fname</code> | file name |
| <code>sheet_name</code> | name of the Excel sheet |
| <code>headers</code> | list with the headersa |

Value

data.table derived from EnVision data

get_df_from_raw_unedited_EnVision_df

Get final results (as a data.table) from raw unedited EnVision data.table

Description

Get final results (as a data.table) from raw unedited EnVision data.table

Usage

```
get_df_from_raw_unedited_EnVision_df(df, n_row, n_col, barcode_col)
```

Arguments

| | |
|-------------|--------------------------------|
| df | raw data.table |
| n_row | number of rows |
| n_col | number of columns |
| barcode_col | column number for barcode data |

Value

data.table derived from EnVision data

get_EnVision_properties

Get properties of EnVision data

Description

This function return properties of EnVision data

Usage

```
get_EnVision_properties(results.list, fname)
```

Arguments

| | |
|--------------|-------------------------|
| results.list | list with EnVision data |
| fname | name of the input file |

Value

list with EnVision propertiesa

get_excel_sheet_names *get Excel sheets names for a charvec of files for non-Excel files return 0*

Description

get Excel sheets names for a charvec of files for non-Excel files return 0

Usage

get_excel_sheet_names(fls)

Arguments

fls charvec with file pathsa

Value

list with one element per file with sheet names or 0 (for non-Excel file)

get_exception_data *get exception data*

Description

get exception data

Usage

get_exception_data(status_code = NULL)

Arguments

status_code A numeric value

Value

A data.table row with exception data or all exceptions

Examples

```
get_exception_data(1)
get_exception_data()
```

`get_expected_template_sheets`

Get names of the sheets expected in templates.xlsx

Description

Get names of the sheets expected in templates.xlsx

Usage

```
get_expected_template_sheets(type = c("all", "core", "optional"))
```

Arguments

`type` charvec type of the sheets

Value

string with type of the sheets

`get_plate_info_from_template.xlsx`

Get plate info from template.xlsx

Description

Get plate info from template.xlsx

Usage

```
get_plate_info_from_template.xlsx(template_file, Gnumber_idx, idx)
```

Arguments

`template_file` character, file path(s) to template(s)

`Gnumber_idx` index with Gnumber data

`idx` template file index

Value

list with plate info

get_test_D300_data *get test D300 data*

Description

get test D300 data

Usage

get_test_D300_data()

Value

list with with input data (manifest/template/result paths) and related reference data (qs file paths)

Examples

get_test_D300_data()

get_test_data *get primary test data*

Description

get primary test data

Usage

get_test_data()

Value

object class "gdr_test_data" with with input data (manifest/template/result paths) and related reference data (qs file paths)

Examples

get_test_data()

`get_test_EnVision_data`
get test EnVision data

Description

get test EnVision data

Usage

`get_test_EnVision_data()`

Value

list with with input data (manifest/template/result paths) and related reference data (.qs file paths)

Examples

`get_test_EnVision_data()`

`get_test_Tecan_data` *get test Tecan data*

Description

get test Tecan data

Usage

`get_test_Tecan_data()`

Value

list with with input data (manifest/template/result paths) and related reference data (qs file paths)

Examples

`get_test_Tecan_data()`

| | |
|-------------------|--------------------------|
| get_test_tsv_data | <i>get test tsv data</i> |
|-------------------|--------------------------|

Description

get test tsv data

Usage

```
get_test_tsv_data()
```

Value

list with with input data (manifest/template/result paths) and related reference data (.qs file paths)

Examples

```
get_test_tsv_data()
```

| | |
|---------------|-------------------------|
| get_xl_sheets | <i>Get Excel sheets</i> |
|---------------|-------------------------|

Description

get sheets for given set of XLS files

Usage

```
get_xl_sheets(files)
```

Arguments

files charvec with file paths

Value

named list where names are the excel filenames and the values are the sheets within each file

`import_D300`*Import D300*

Description

This function takes a D300 file and generates corresponding template files

Usage

```
import_D300(D300_file, metadata_file, destination_path)
```

Arguments

`D300_file` character, file path to D300 file
`metadata_file` character, file path to file with mapping from D300 names to Gnumbers
`destination_path`
character, path to folder where template files will be generated

Details

For example, wells treated with 2 drugs in combination will result in 4 sheets per plate.

- Sheet 1: Drug 1
- Sheet 2: Conc of Drug 1
- Sheet 3: Drug 2
- Sheet 4: Conc of Drug 2

Value

Create one Excel file per plate. Each sheet in each plate file describes the drugs and corresponding concentrations of what was tested in each well.

Examples

```
td3 <- get_test_D300_data()[["f_96w"]]  
o_path <- file.path(tempdir(), "td3")  
dir.create(o_path)  
import_D300(td3$d300, td3$Gnum, o_path)  
list.files(o_path)  
unlink(o_path, recursive = TRUE)
```

| | |
|---------------|--|
| is_readable_v | <i>is_readable_v</i> Check if all paths in vector are readable |
|---------------|--|

Description

is_readable_v Check if all paths in vector are readable

Usage

```
is_readable_v(paths)
```

Arguments

paths a character with path(s)

Value

NULL invisibly.

Examples

```
td2 <- get_test_Tecan_data()
is_readable_v(td2$r_files)
```

| | |
|-----------|------------------|
| load_data | <i>Load data</i> |
|-----------|------------------|

Description

This functions loads and checks the data file(s)

Usage

```
load_data(
  manifest_file,
  df_template_files,
  results_file,
  instrument = "EnVision"
)
```

Arguments

manifest_file character, file path(s) to manifest(s)
df_template_files data.table, with datapaths and names of results file(s) or character with file path of templates file(s)
results_file data.table, with datapaths and names of results file(s) or character with file path of results file(s)
instrument character

Value

a list with three data.tables for manifest/treatment and results

Examples

```
td <- get_test_data()
l_tbl <- load_data(manifest_path(td), template_path(td), result_path(td))
```

| | |
|---------------|----------------------|
| load_manifest | <i>Load manifest</i> |
|---------------|----------------------|

Description

This functions loads and checks the manifest file(s)

Usage

```
load_manifest(manifest_file)
```

Arguments

manifest_file character, file path(s) to manifest(s)

Value

list with manifest data.table and headers

Examples

```
td <- get_test_data()
ml <- load_manifest(manifest_path(td))
```

| | |
|--------------|---------------------|
| load_results | <i>Load results</i> |
|--------------|---------------------|

Description

This functions loads and checks the results file(s)

Usage

```
load_results(
  df_results_files,
  instrument = "EnVision",
  headers = gDRutils::get_env_identifiers()
)
```

Arguments

| | |
|------------------|--|
| df_results_files | data.table, with datapaths and names of results file(s) or character with file path of results file(s) |
| instrument | character |
| headers | list of headers identified in the manifest file |

Value

data.table with results' data

Examples

```
td <- get_test_data()
r_df <- load_results(result_path(td))
```

| | |
|-----------------------|--|
| load_results_EnVision | <i>Load EnVision results from xlsx</i> |
|-----------------------|--|

Description

This functions loads and checks the results file(s)

Usage

```
load_results_EnVision(results_file, headers = gDRutils::get_env_identifiers())
```

Arguments

results_file character vector containing file path(s) to results file(s)
 headers list of headers identified in the manifest

Value

data.table with results data

load_results_Tecan *Load tecan results from xlsx*

Description

This functions loads and checks the results file

Usage

```
load_results_Tecan(results_file, headers = gDRutils::get_env_identifiers())
```

Arguments

results_file string, file path to a result file
 headers list of headers identified in the manifest

Value

data.table derived from Tecan data

load_results_tsv *Load results from tsv*

Description

This functions loads and checks the results file(s)

Usage

```
load_results_tsv(results_file, headers)
```

Arguments

results_file character, file path(s) to template(s)
 headers list of headers identified in the manifest

Value

data.table with results data

| | |
|----------------|-----------------------|
| load_templates | <i>Load templates</i> |
|----------------|-----------------------|

Description

This functions loads and checks the template file(s)

Usage

```
load_templates(df_template_files)
```

Arguments

df_template_files
data.table, with datapaths and names of results file(s) or character with file path of templates file(s)

Value

data.table with templates data

Examples

```
td <- get_test_data()
t_df <- load_templates(template_path(td))
```

| | |
|--------------------|--------------------------------|
| load_templates_tsv | <i>Load templates from tsv</i> |
|--------------------|--------------------------------|

Description

This functions loads and checks the template file(s)

Usage

```
load_templates_tsv(template_file, template_filename = NULL)
```

Arguments

template_file character, file path(s) to template(s)
template_filename
character, file name(s)

Value

data.table with template data

| | |
|---------------------|---------------------------------|
| load_templates_xlsx | <i>Load templates from xlsx</i> |
|---------------------|---------------------------------|

Description

This functions loads and checks the template file(s)

Usage

```
load_templates_xlsx(template_file, template_filename = NULL)
```

Arguments

```
template_file  character, file path(s) to template(s)
template_filename
                character, file name(s)
```

Value

data.table with templates data

| | |
|---------------|-----------------------------|
| manifest_path | <i>Method manifest_path</i> |
|---------------|-----------------------------|

Description

Method for object gdr_test_data - access to slot manifest_path

Usage

```
manifest_path(x)

## S4 method for signature 'gdr_test_data'
manifest_path(x)
```

Arguments

```
x                object class gdr_test_data
```

Value

value of slot manifest_path

Examples

```
td <- get_test_data()
manifest_file_path <- manifest_path(td)
```

| | |
|--------|--|
| mgrepl | <i>grep wrapper to support multiple patterns</i> |
|--------|--|

Description

grep wrapper to support multiple patterns

Usage

```
mgrepl(patterns, x, do_unlist = TRUE, ...)
```

Arguments

| | |
|-----------|--|
| patterns | charvec with patterns to be checked |
| x | charvec with data |
| do_unlist | logical_flag unlist the final results? |
| ... | additional argument |

Value

list of charvec with grep output

| | |
|----------------|-------------------|
| parse_D300_xml | <i>Parse D300</i> |
|----------------|-------------------|

Description

This function parses a D300 *.tdd file (XML format) into a data.table

Usage

```
parse_D300_xml(D300_file)
```

Arguments

| | |
|-----------|-------------------------------------|
| D300_file | string, file path to D300 .tdd file |
|-----------|-------------------------------------|

Value

data.table representing input D300_file.

Examples

```
td3 <- get_test_D300_data()
fs <- td3[["f_96w"]]
dose_df <- parse_D300_xml(fs[["d300"]])
```

read_EnVision_delim *Read EnVision delimited text files*

Description

This function reads file from the EnVision Workstation

Usage

```
read_EnVision_delim(file, nrows = 10000, seps = c(",", "\t"))
```

Arguments

| | |
|-------|--|
| file | string to path of input file from EnVision scanner |
| nrows | maximum number of file rows to be processed |
| seps | potential field separators of the input file |

Value

a list containing the data table, n_col, n_row, and if is edited

read_EnVision_xlsx *Read in single xlsx data from EnVision*

Description

Read in single xlsx data from EnVision

Usage

```
read_EnVision_xlsx(results_file, results_sheet)
```

Arguments

| | |
|---------------|--|
| results_file | character, file path(s) to results file(s) |
| results_sheet | results sheet names |

Value

data.table with results data

read_excel_to_dt *Read excel file and transform it into data.table object*

Description

Read excel file and transform it into data.table object

Usage

```
read_excel_to_dt(path, ...)
```

Arguments

| | |
|------|---|
| path | path to excel file |
| ... | other arguments that should be passed into readxl::read_excel |

Value

data.table object with read excel file

Examples

```
datasets <- readxl::readxl_example("datasets.xlsx")
read_excel_to_dt(datasets)
```

read_in_EnVision_file *Read EnVision file*

Description

This function reads file from the EnVision Workstation

Usage

```
read_in_EnVision_file(file, nrows, seps)
```

Arguments

| | |
|-------|--|
| file | input file from EnVision |
| nrows | maximum number of file rows to be processed |
| seps | potential field separators of the input file |

Value

list with one element per EnVisoin input file

`read_in_manifest_file` *read manifest files*

Description

read manifest files

Usage

`read_in_manifest_file(manifest_file, available_formats)`

Arguments

`manifest_file` character, file path(s) to manifest(s)
`available_formats`
charvec with available file formats

Value

a data.table with manifest data

`read_in_results_Tecan` *read in Tecan data*

Description

read in Tecan data

Usage

`read_in_results_Tecan(results_file, results_sheets, headers)`

Arguments

`results_file` string, file path to a result file
`results_sheets` template sheet names
`headers` list of headers identified in the manifest

Value

data.table derived from Tecan data

read_in_result_files *Read in results files*

Description

Read in results files

Usage

```
read_in_result_files(results_file, results_filename, headers)
```

Arguments

results_file data.table, with datapaths and names of results file(s) or character with file path of results file(s)

results_filename charvect with file names

headers list of headers identified in the result files

Value

data.table with results data

read_in_template_sheet_xlsx
Read in data from xlsx template sheet

Description

Read in data from xlsx template sheet

Usage

```
read_in_template_sheet_xlsx(template_file, template_sheets, idx, plate_info)
```

Arguments

template_file character, file path(s) to template(s)

template_sheets template sheet names

idx template file index

plate_info list with plate info

Value

data.table with template data

read_in_template_xlsx *Read in xlsx template files*

Description

Read in xlsx template files

Usage

```
read_in_template_xlsx(template_file, template_filename, template_sheets)
```

Arguments

template_file character, file path(s) to template(s)
template_filename character, file name(s)
template_sheets template sheet names

Value

data.table with templates data

read_in_tsv_template_files
read in tsv template files

Description

read in tsv template files

Usage

```
read_in_tsv_template_files(template_file, template_filename, templates)
```

Arguments

template_file character, file path(s) to template(s)
template_filename character, file name(s)
templates list with templates data

Value

data.table with templates data

| | |
|---------------|----------------------|
| read_ref_data | <i>read_ref_data</i> |
|---------------|----------------------|

Description

Read reference data

Usage

```
read_ref_data(inDir, prefix = "ref")
```

Arguments

| | |
|--------|---|
| inDir | a directory path of reference data |
| prefix | a prefix of reference file names ('ref' by default) |

Value

a list of reference data

| | |
|-------------|---------------------------|
| result_path | <i>Method result_path</i> |
|-------------|---------------------------|

Description

Method for object gdr_test_data - access to slot result_path

Usage

```
result_path(x)

## S4 method for signature 'gdr_test_data'
result_path(x)
```

Arguments

| | |
|---|----------------------------|
| x | object class gdr_test_data |
|---|----------------------------|

Value

value of slot result_path

Examples

```
td <- get_test_data()
result_file_path <- result_path(td)
```

 save_drug_info_per_well

for each drug create a Gnumber and Concentration information for each well

Description

for each drug create a Gnumber and Concentration information for each well

Usage

```
save_drug_info_per_well(trt_info, trt_gnumber_conc, wb, idfs)
```

Arguments

| | |
|------------------|--------------------------|
| trt_info | list with treatment info |
| trt_gnumber_conc | list with treatment data |
| wb | pointer to xlsx workbook |
| idfs | charvec with identifiers |

Value

NULL invisibly.

setEnvForPSet

Adjust environment variables to meet gDR standards

Description

Adjust environment variables to meet gDR standards

Usage

```
setEnvForPSet()
```

Value

NULL

Examples

```
setEnvForPSet()
gDRutils::reset_env_identifiers()
```

standardize_record_values
standardize_record_values

Description

map values to a dictionary

Usage

```
standardize_record_values(x, dictionary = DICTIONARY)
```

Arguments

| | |
|------------|---------------|
| x | a named array |
| dictionary | a named array |

Value

a named array with updated names

Examples

```
standardize_record_values(c("Vehicle", "vehcle"))
```

template_path *Method template_path*

Description

Method for object gdr_test_data - access to slot template_path

Usage

```
template_path(x)  
  
## S4 method for signature 'gdr_test_data'  
template_path(x)
```

Arguments

| | |
|---|----------------------------|
| x | object class gdr_test_data |
|---|----------------------------|

Value

value of slot template_path

Examples

```
td <- get_test_data()
template_file_path <- template_path(td)
```

```
validate_template_xlsx
```

Validate template xlsx data

Description

Validate template xlsx data

Usage

```
validate_template_xlsx(template_file, template_filename, template_sheets, idx)
```

Arguments

| | |
|-------------------|--|
| template_file | character, file path(s) to template(s) |
| template_filename | character, file name(s) |
| template_sheets | template sheet names |
| idx | template file index |

Value

NULL invisibly.

Index

- * **D300**
 - import_D300, 25
 - parse_D300_xml, 32
 - save_drug_info_per_well, 39
- * **classes**
 - gdr_test_data-class, 16
- * **correction_exception**
 - .check_against_single_template_sheet, 5
 - are_template_sheets_valid, 9
 - check_metadata_against_spaces, 9
 - check_metadata_field_names, 10
 - check_metadata_headers, 10
 - check_metadata_names, 11
 - check_metadata_req_col_names, 11
 - correct_template_sheets, 14
 - fix_typos_with_reference, 15
 - get_exception_data, 20
 - get_expected_template_sheets, 21
 - get_xl_sheets, 24
 - mgrepl, 32
- * **internal**
 - .check_file_structure, 5
 - .createPseudoData, 6
 - .extractDoseResponse, 6
 - .fill_empty_wells, 7
 - .get_plate_size, 7
 - .removeNegatives, 8
 - .standardize_untreated_values, 8
 - gDRimport-package, 4
- * **load_files**
 - enhance_raw_edited_EnVision_df, 15
 - get_df_from_raw_edited_EnVision_df, 18
 - get_df_from_raw_unedited_EnVision_df, 19
 - get_EnVision_properties, 19
 - get_excel_sheet_names, 20
 - get_plate_info_from_template_xlsx, 21
 - load_data, 26
 - load_manifest, 27
 - load_results, 28
 - load_results_EnVision, 28
 - load_results_Tecan, 29
 - load_results_tsv, 29
 - load_templates, 30
 - load_templates_tsv, 30
 - load_templates_xlsx, 31
 - read_EnVision_delim, 33
 - read_EnVision_xlsx, 33
 - read_in_EnVision_file, 34
 - read_in_manifest_file, 35
 - read_in_result_files, 36
 - read_in_results_Tecan, 35
 - read_in_template_sheet_xlsx, 36
 - read_in_template_xlsx, 37
 - read_in_tsv_template_files, 37
 - validate_template_xlsx, 41
- * **methods**
 - manifest_path, 31
 - result_path, 38
 - template_path, 40
- * **pset**
 - .extract_or_create_assay, 6
 - convert_MAE_to_PSet, 12
 - convert_pset_to_df, 13
 - getPSet, 17
 - setEnvForPSet, 39
- * **test_data_class**
 - gdr_test_data-class, 16
 - get_test_data, 22
 - manifest_path, 31
 - result_path, 38
 - template_path, 40
- * **test_data**
 - get_test_D300_data, 22
 - get_test_EnVision_data, 23

- get_test_Tecan_data, 23
- get_test_tsv_data, 24
- * **utils**
 - detect_file_format, 14
 - is_readable_v, 26
 - read_excel_to_dt, 34
 - read_ref_data, 38
 - standardize_record_values, 40
- .check_against_single_template_sheet, 5
- .check_file_structure, 5
- .createPseudoData, 6
- .extractDoseResponse, 6
- .extract_or_create_assay, 6
- .fill_empty_wells, 7
- .get_plate_size, 7
- .removeNegatives, 8
- .standardize_untreated_values, 8
- are_template_sheets_valid, 9
- check_metadata_against_spaces, 9
- check_metadata_field_names, 10
- check_metadata_headers, 10
- check_metadata_names, 11
- check_metadata_req_col_names, 11
- convert_MAE_to_PSet, 12
- convert_pset_to_df, 13
- correct_template_sheets, 14
- detect_file_format, 14
- enhance_raw_edited_EnVision_df, 15
- fix_typos_with_reference, 15
- gdr_test_data-class, 16
- gDRimport (gDRimport-package), 4
- gDRimport-package, 4
- get_df_from_raw_edited_EnVision_df, 18
- get_df_from_raw_unedited_EnVision_df, 19
- get_EnVision_properties, 19
- get_excel_sheet_names, 20
- get_exception_data, 20
- get_expected_template_sheets, 21
- get_plate_info_from_template_xlsx, 21
- get_test_D300_data, 22
- get_test_data, 22
- get_test_data(), 16
- get_test_EnVision_data, 23
- get_test_Tecan_data, 23
- get_test_tsv_data, 24
- get_xl_sheets, 24
- getPSet, 17
- import_D300, 25
- is_readable_v, 26
- load_data, 26
- load_manifest, 27
- load_results, 28
- load_results_EnVision, 28
- load_results_Tecan, 29
- load_results_tsv, 29
- load_templates, 30
- load_templates_tsv, 30
- load_templates_xlsx, 31
- manifest_path, 31
- manifest_path, gdr_test_data-method (manifest_path), 31
- mgrepl, 32
- parse_D300_xml, 32
- read_EnVision_delim, 33
- read_EnVision_xlsx, 33
- read_excel_to_dt, 34
- read_in_EnVision_file, 34
- read_in_manifest_file, 35
- read_in_result_files, 36
- read_in_results_Tecan, 35
- read_in_template_sheet_xlsx, 36
- read_in_template_xlsx, 37
- read_in_tsv_template_files, 37
- read_ref_data, 38
- result_path, 38
- result_path, gdr_test_data-method (result_path), 38
- save_drug_info_per_well, 39
- setEnvForPSet, 39
- standardize_record_values, 40
- template_path, 40
- template_path, gdr_test_data-method (template_path), 40
- validate_template_xlsx, 41