

Package ‘TargetSearchData’

December 1, 2021

Type Package

Title Example GC-MS data for TargetSearch Package

Version 1.32.0

Date 2021-03-10

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Description This package provides example GC-MS data for TargetSearch Package.

biocViews ExperimentData, Escherichia_coli_Data

License GPL (>= 2)

git_url <https://git.bioconductor.org/packages/TargetSearchData>

git_branch RELEASE_3_14

git_last_commit 1867217

git_last_commit_date 2021-10-26

Date/Publication 2021-12-01

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TargetSearchData *Example GC-MS data for TargetSearch Package*

Description

A [TargetSearch](#) example GC-MS data files. This package contains raw NetCDF files from a *E. coli* salt stress experiment (Jozefczuk et al., 2010), extracted peak list of each NetCDF file, and three tab-delimited text files: a sample description, a reference library, and a retention index marker definition. The chromatographic data is a subset of the original NetCDF files restricted to 200-400 seconds and 85-320 *m/z*.

Details

The package does not provide any R function or data structure, only exemplary experiment files for [TargetSearch](#).

All files are in the `gc-ms-data` subdirectory. The following files are provided.

- `samples.txt`. Tab-delimited file of the samples metadata. It provides the CDF raw file of each sample, the so-called measurement day (MD), and the time point of the experiment. The MD is coded as a single digit year (starting from 2000), plus three digits that represent the day of that year. In this file, “7235” means “2007-Oct-23”. The time point is relative to the experiment and does not represent real time, i.e., 1 is first sampling point of the experiment, 3 the third time point, and so on. See [ImportSamples](#).
- `rimLimits.txt`. Tab-delimited file of the retention time markers (or FAMEs). The first two columns are the lower and upper window search of each marker in seconds, while the third column is the retention index (RI) standard of the marker. The “mass” column is not present as it set to 87 m/z by default. See [ImportFameSettings](#) for details.
- `library.txt`. Tab-delimited file of the metabolite library to be searched. Each row corresponds to a single metabolite, while columns are the metabolite name, expected RI, the search window to search around this RI (plus or minus), their selective masses (which are searched for), and their mass spectra. See [ImportLibrary](#) for details.
- `7235eg*.cdf`. NetCDF files of the baseline-corrected raw metabolite data. One file correspond to one sample, though the retention time and m/z values are restricted to 200-400 seconds and 85-320. This was done to reduce the package size.
- `RI_7235eg*.txt`. Retention Index corrected and extracted peaks of the corresponding NetCDF files. These files are simple tab-delimited files containing the retention time, retention index, and spectra. Each spectrum is a list of m/z and intensities separated by colons (:).

Author(s)

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References

Jozefczuk, S. et al. Mol Syst Biol (2010) 6:364. doi: [10.1038/msb.2010.18](https://doi.org/10.1038/msb.2010.18).

See Also

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