

Package ‘nlmixr2’

August 5, 2026

Title Nonlinear Mixed Effects Models in Population PK/PD

Version 7.0.1

Description Fit and compare nonlinear mixed-effects models in differential equations with flexible dosing information commonly seen in pharmacokinetics and pharmacodynamics (Almquist, Leander, and Jirstrand 2015 <[doi:10.1007/s10928-015-9409-1](https://doi.org/10.1007/s10928-015-9409-1)>). Differential equation solving is by compiled C code provided in the 'rxode2' package (Wang, Hallow, and James 2015 <[doi:10.1002/psp4.12052](https://doi.org/10.1002/psp4.12052)>).

License GPL (>= 3)

Encoding UTF-8

Depends R (>= 4.1.0)

Imports clisymbols, cli (>= 1.0.0), crayon (>= 1.3.4), dplyr (>= 0.7.4), purrr (>= 0.2.4), rstudioapi (>= 0.7), nlmixr2test (>= 5.0.0), nlmixr2extra (>= 5.0.0), rxode2 (>= 5.0.0), lotri (>= 0.4.3), nlmixr2plot (>= 5.0.0), tibble, nlmixr2save (>= 0.1.0)

Suggests admixr2, babelmixr2, DiagrammeR, ggPMX, ggplot2, knitr, monolix2rx, nlqn1, nlmixr2auto, nlmixr2autoinit, nlmixr2lib, nlmixr2rpt, nlmixr2targets, nonmem2rx, pmxNODE, posologyr, rmarkdown, shinyMixR, testthat, withr, xpose.nlmixr2, devtools

BugReports <https://github.com/nlmixr2/nlmixr2/issues/>

URL <https://nlmixr2.org/>, <https://github.com/nlmixr2/nlmixr2/>

Config/roxygen2/version 8.0.0

NeedsCompilation no

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nlmixr2CheckInstall	<i>Check your nlmixr2 installation for potential issues</i>
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Description

Check your nlmixr2 installation for potential issues

Usage

nlmixr2CheckInstall()

Value

Nothing, called for the side effect of reporting on the installation

Examples

nlmixr2CheckInstall()

nlmixr2conflicts	<i>Conflicts between the nlmixr2 and other packages</i>
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Description

This function lists all the conflicts between packages in the nlmixr2 and other packages that you have loaded.

Usage

```
nlmixr2conflicts()
```

Details

If dplyr is one of the select packages, then the following four conflicts are deliberately ignored: intersect, union, setequal, and setdiff from dplyr. These functions make the base equivalents generic, so shouldn't negatively affect any existing code.

Examples

```
nlmixr2conflicts()
```

nlmixr2deps	<i>List all nlmixr2 dependencies</i>
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Description

List all nlmixr2 dependencies

Usage

```
nlmixr2deps(recursive = FALSE)
```

Arguments

recursive	If TRUE, will also list all dependencies of nlmixr2 packages.
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nlmixr2packages	<i>List all packages in the nlmixr2</i>
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Description

List all packages in the nlmixr2

Usage

```
nlmixr2packages(include_self = TRUE)
```

Arguments

include_self Include nlmixr2 in the list?

Examples

```
nlmixr2packages()
```

nlmixr2update	<i>Update nlmixr2 packages</i>
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Description

This will check to see if all nlmixr2 packages (and optionally, their dependencies) are up-to-date, and will install after an interactive confirmation.

Usage

```
nlmixr2update(recursive = FALSE)
```

Arguments

recursive If TRUE, will also check all dependencies of nlmixr2 packages.

Examples

```
## Not run:  
nlmixr2update()  
  
## End(Not run)
```

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