

# Package ‘boggy’

July 22, 2025

**Title** Real-Time PCR Data Sets by Boggy et al. (2010)

**Version** 0.0.1

**Description** Real-time quantitative polymerase chain reaction (qPCR) data sets by Boggy et al. (2008) <[doi:10.1371/journal.pone.0012355](https://doi.org/10.1371/journal.pone.0012355)>. This package provides a dilution series for one PCR target: a random sequence that minimizes secondary structure and off-target primer binding. The data set is a six-point, ten-fold dilution series. For each concentration there are two replicates. Each amplification curve is 40 cycles long. Original raw data file: <<https://journals.plos.org/plosone/article/file?type=supplementary&id=10.1371/journal.pone.0012355.s004>>.

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**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Imports** tibble

**Depends** R (>= 2.10)

**LazyData** true

**URL** <https://rmagno.eu/boggy/>, <https://github.com/ramiromagno/boggy>

**BugReports** <https://github.com/ramiromagno/boggy/issues>

**NeedsCompilation** no

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**Repository** CRAN

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s1

*qPCR data set by Boggy et al. (2010)***Description**

The qPCR data set named *s1* comprises a six-point, ten-fold dilution series, replicated in duplicates targeting an amplicon designed with a random sequence that minimizes secondary structure and off-target primer binding. Please read the *Quantitative PCR data* section, *qPCR assays* subsection of Boggy et al. (2010) for more details.

**Format**

A [tibble](#) with 480 rows and 10 variables:

`plate` Plate identifier. For this data set it is always missing (NA).

`well` Well identifier.

`dye` The type of dye used. In this data set the values are always "SYTO 13", meaning 2 mM of the dsDNA dye SYTO-13 (Invitrogen, Carlsbad, CA).

`target` Target identifier: the amplicon used, a random sequence dubbed "S1" by the original authors.

`sample_type` Sample type (all curves are standards, i.e. "std").

`replicate` Replicate identifier: either 1 or 2.

`copies` Standard copy number.

`dilution` Dilution factor. Higher number means greater dilution.

`cycle` PCR cycle.

`fluor` Raw fluorescence values.

**Source**

[doi:10.1371/journal.pone.0012355](https://doi.org/10.1371/journal.pone.0012355)

**Examples**

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