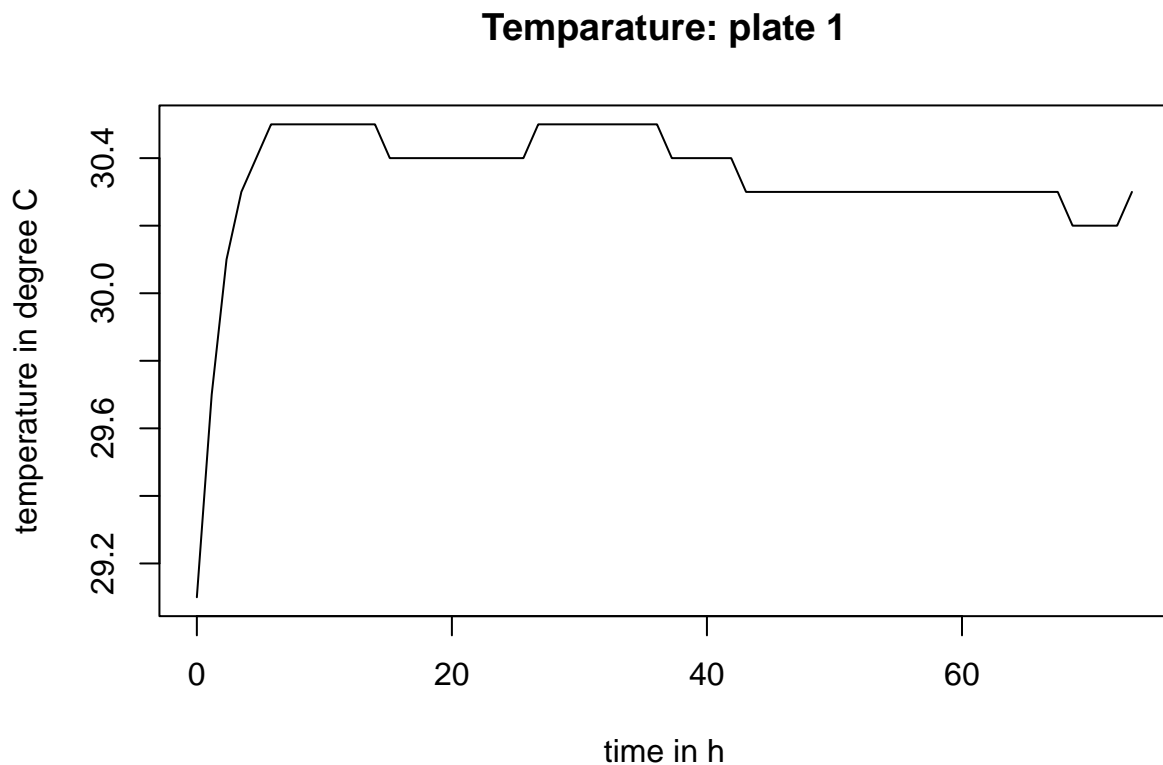


Normalized residual growth for Mm in broth experiment XYZ

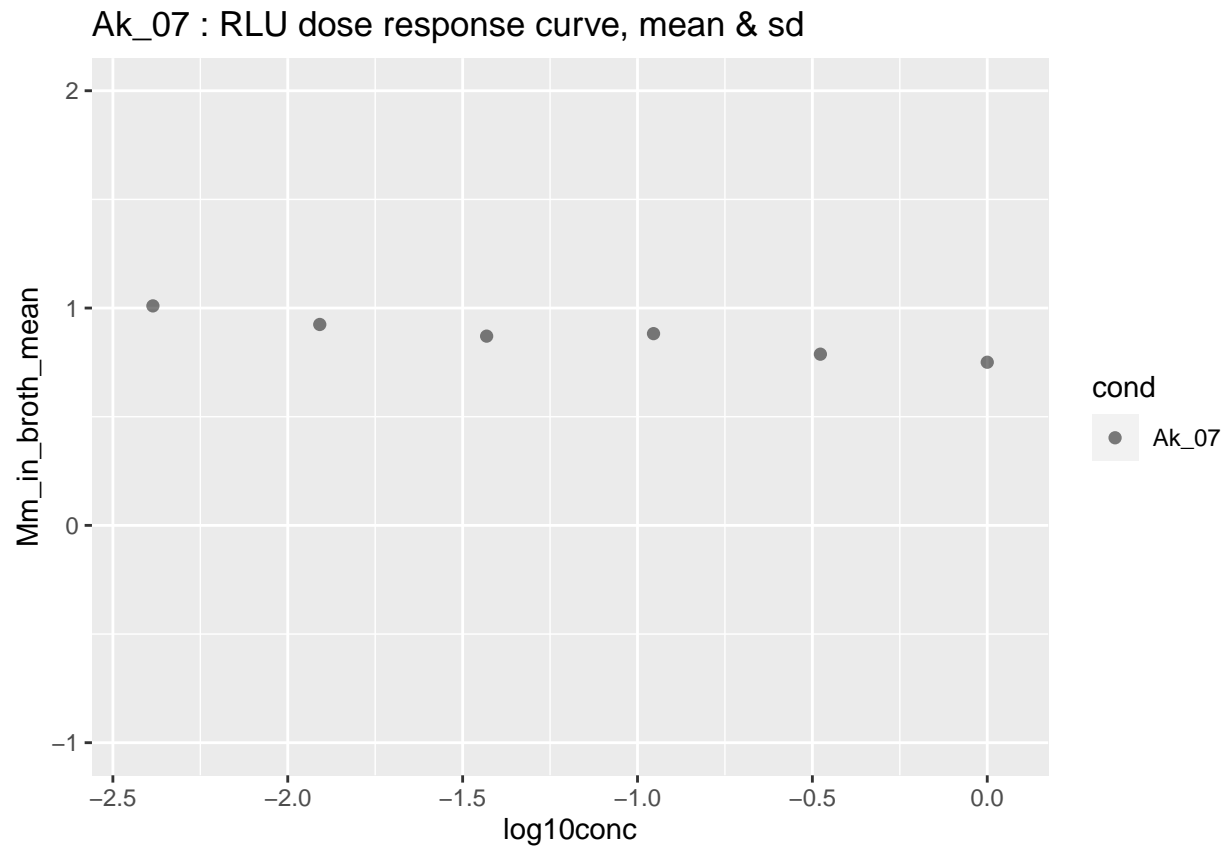
JN

Sat Feb 17 13:40:20 2024

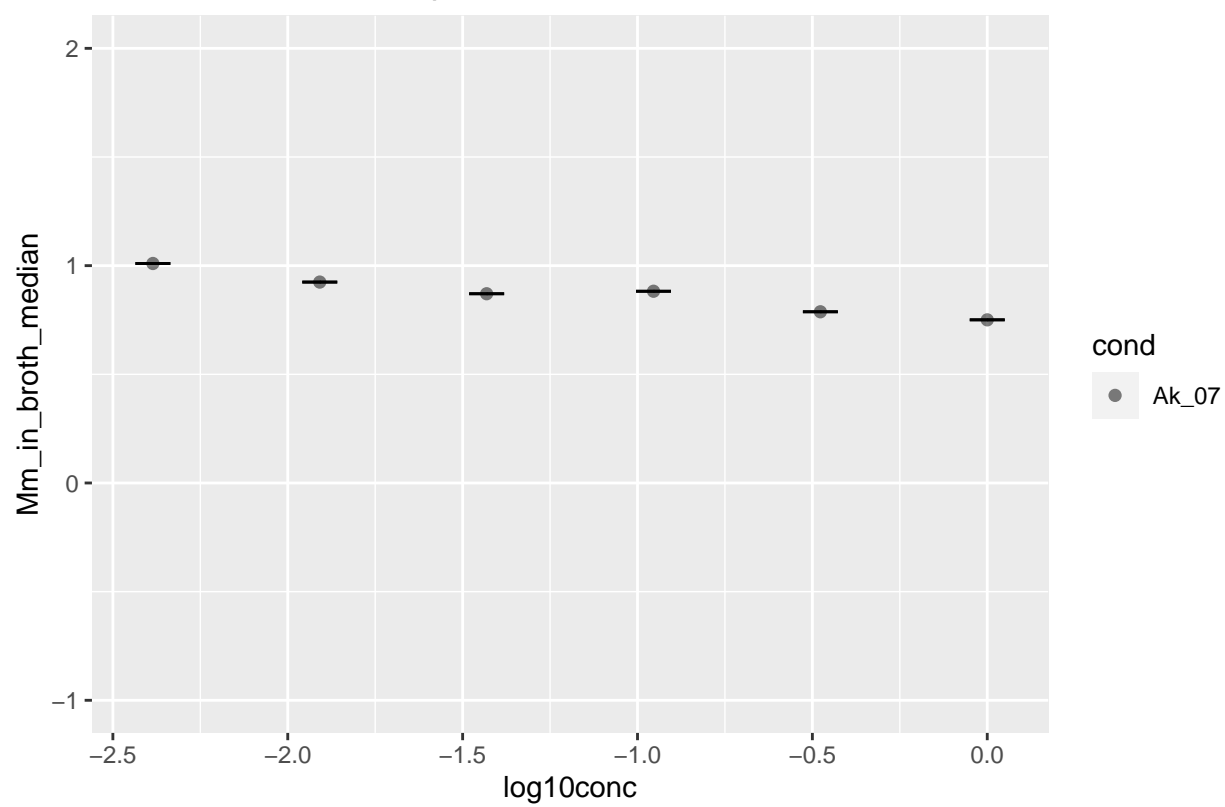
```
## [1] "all files in the directory with the absolute path: "  
## [2] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate02.xlsx"  
## [3] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate03.xlsx"  
## [4] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate04.xlsx"  
## [5] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate05.xlsx"  
## [6] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate06.xlsx"  
## [7] "C:/Users/jahn_/Desktop/analyses/broth_demonstration_dataset/input/plate07.xlsx"  
  
## [1] "all files in the directory: " "plate02.xlsx"  
## [3] "plate03.xlsx"                "plate04.xlsx"  
## [5] "plate05.xlsx"                "plate06.xlsx"  
## [7] "plate07.xlsx"  
  
## [1] "analysis for plate02.xlsx"
```

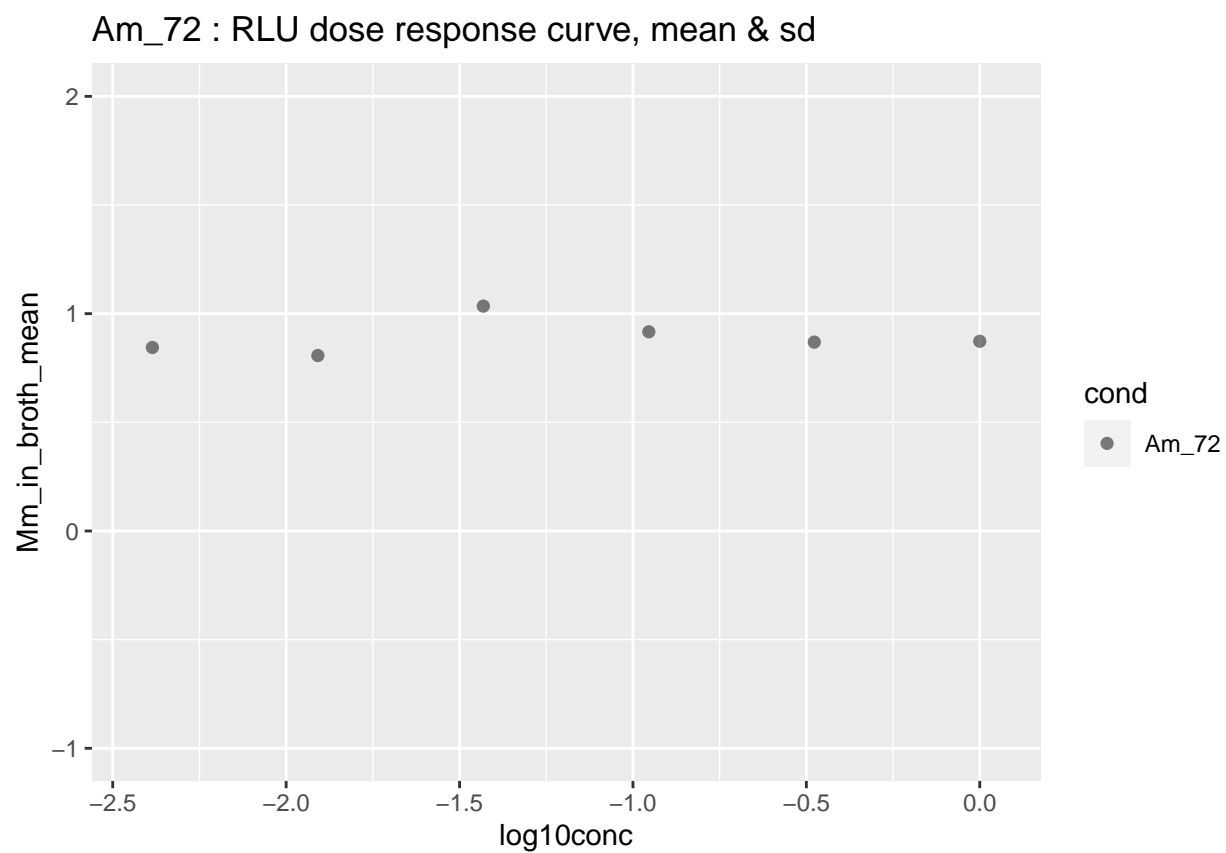


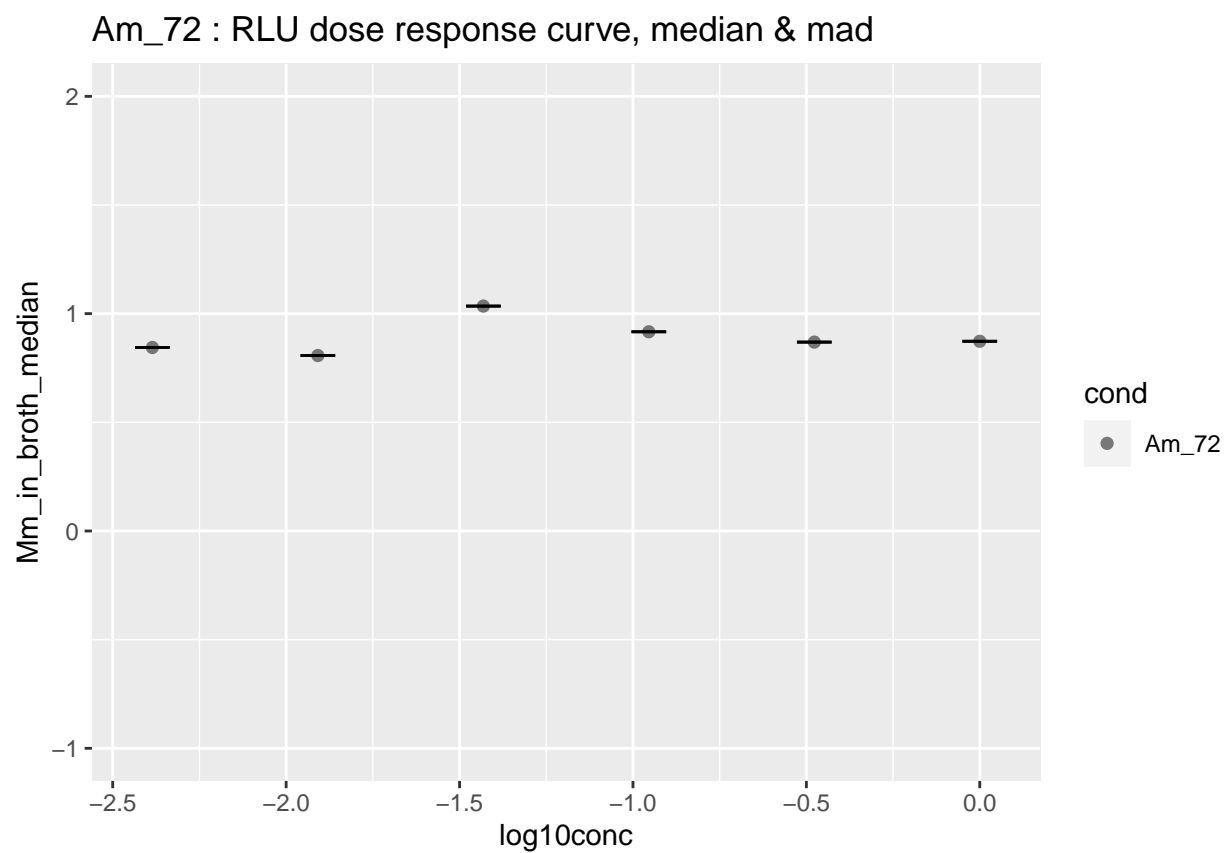
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate02.xlsx, biorep 1 : "  
## [1] 0.52  
## [1] "Dose response curves over all bioreps within this plate"
```

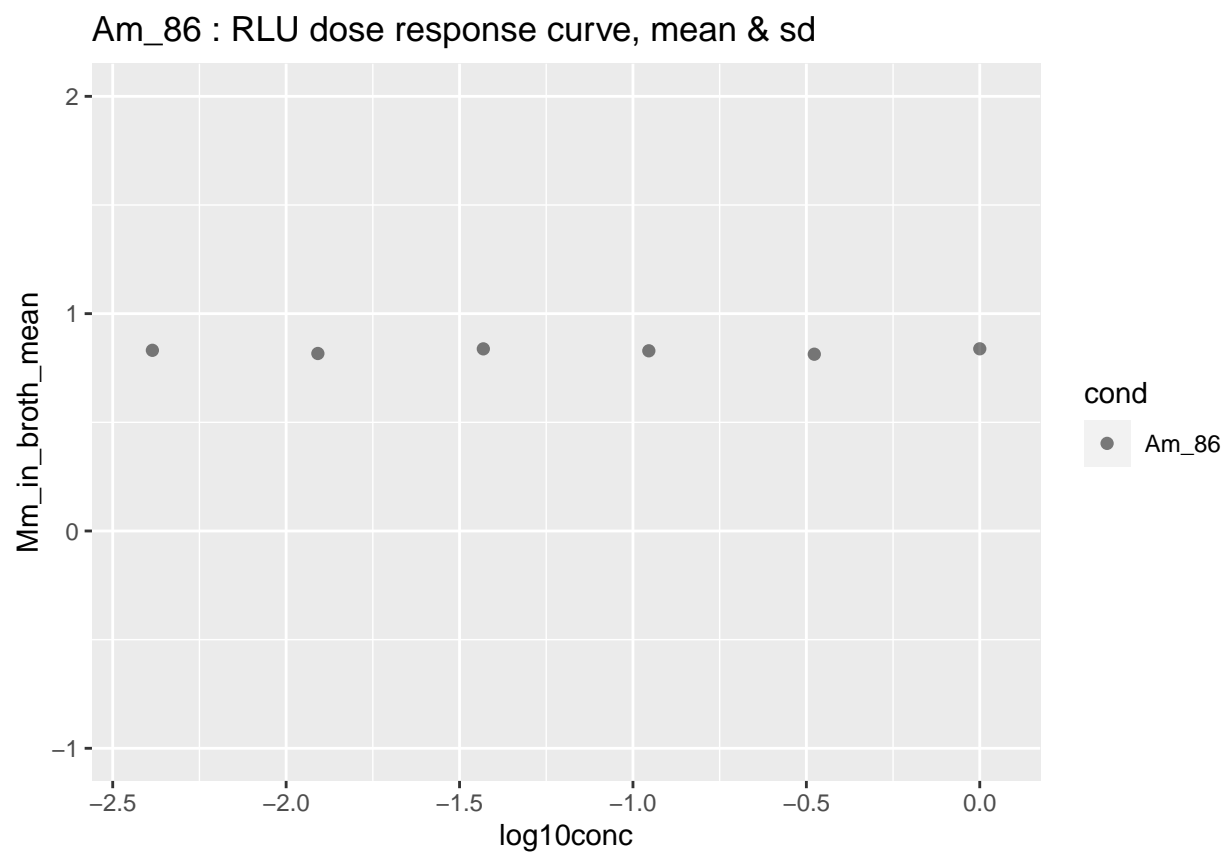


Ak_07 : RLU dose response curve, median & mad

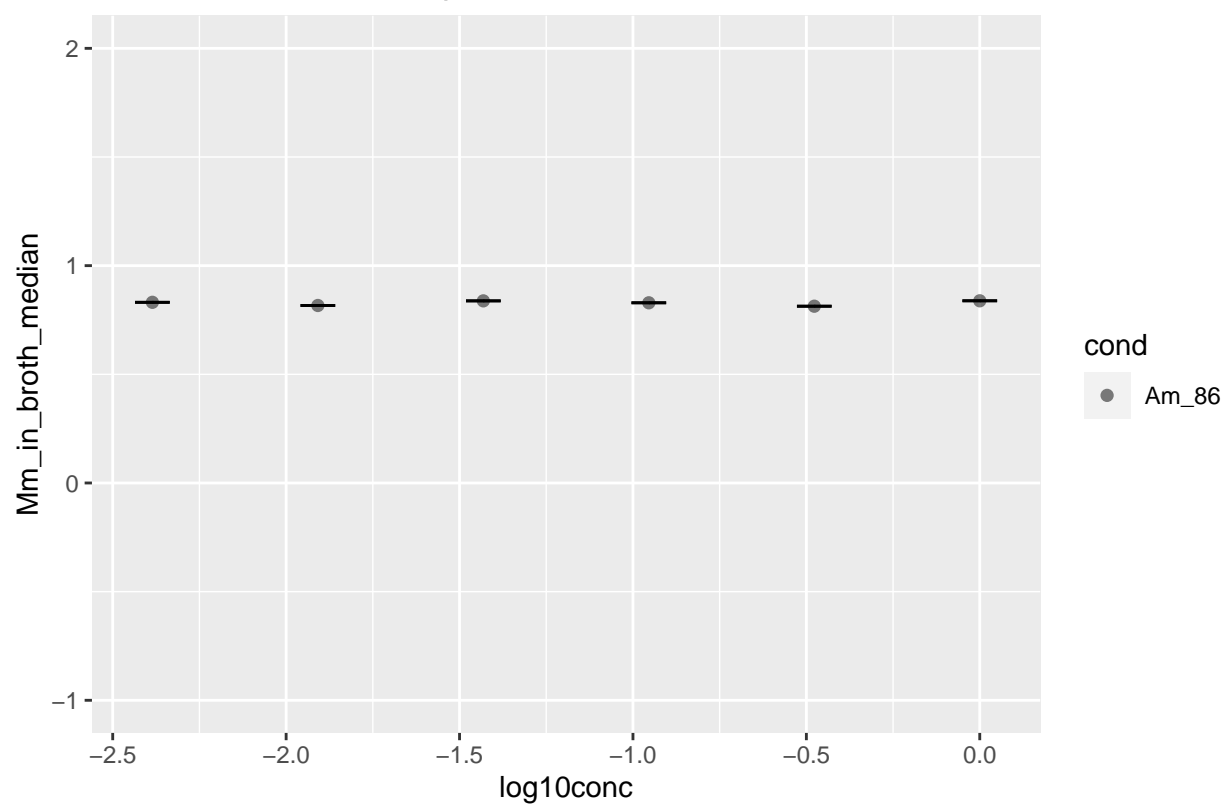


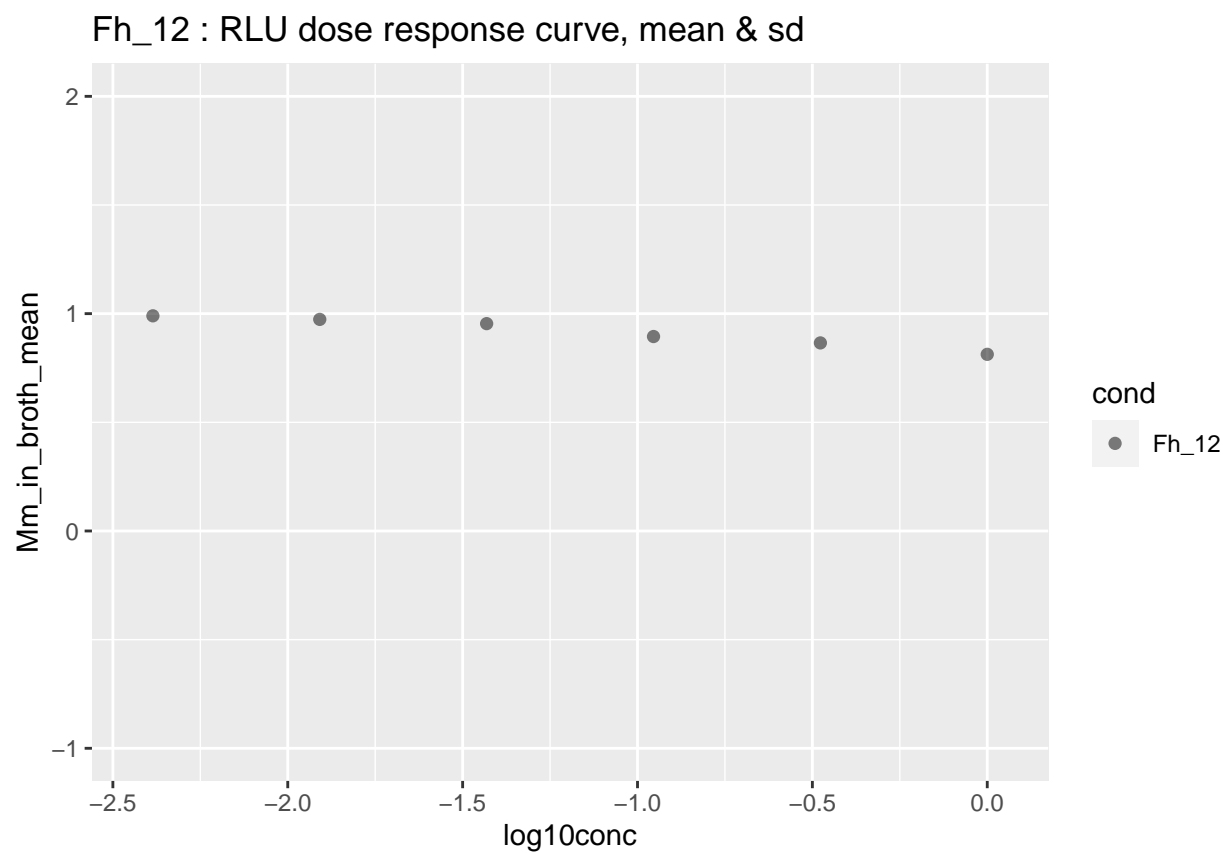




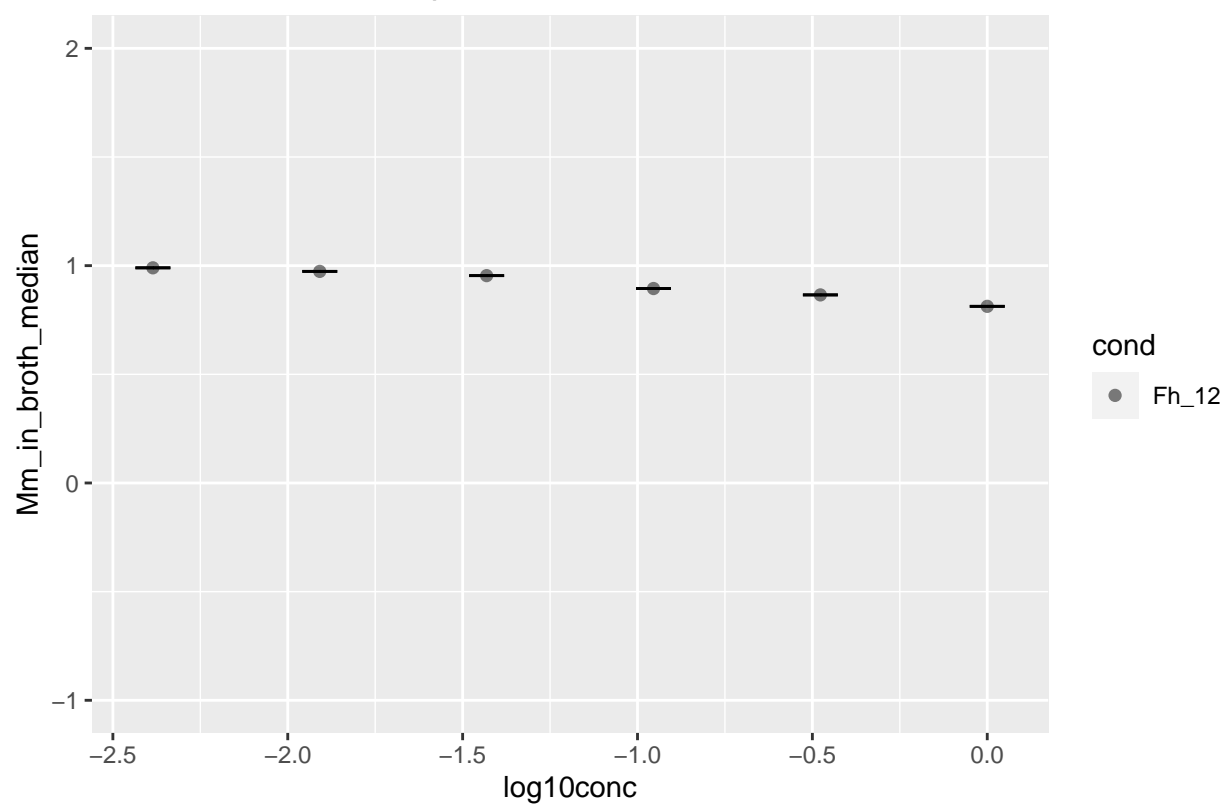


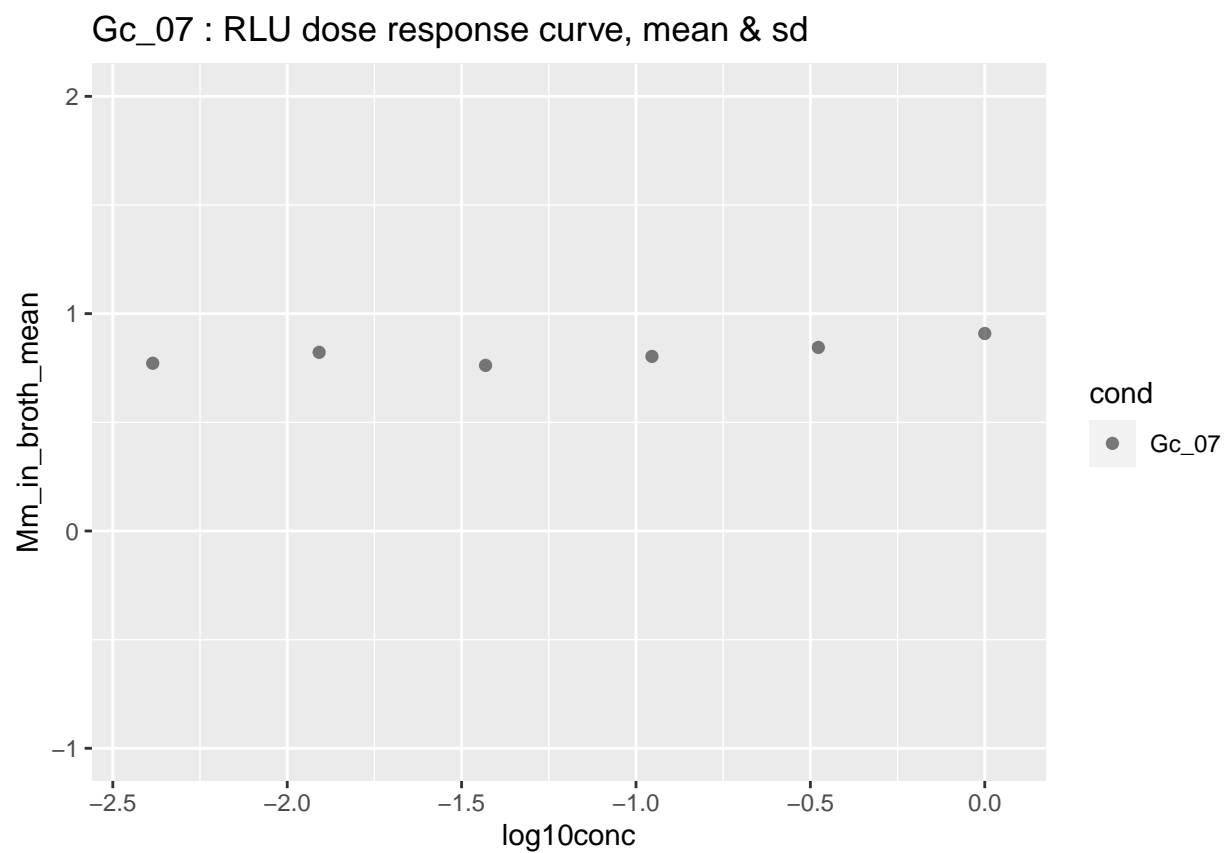
Am_86 : RLU dose response curve, median & mad

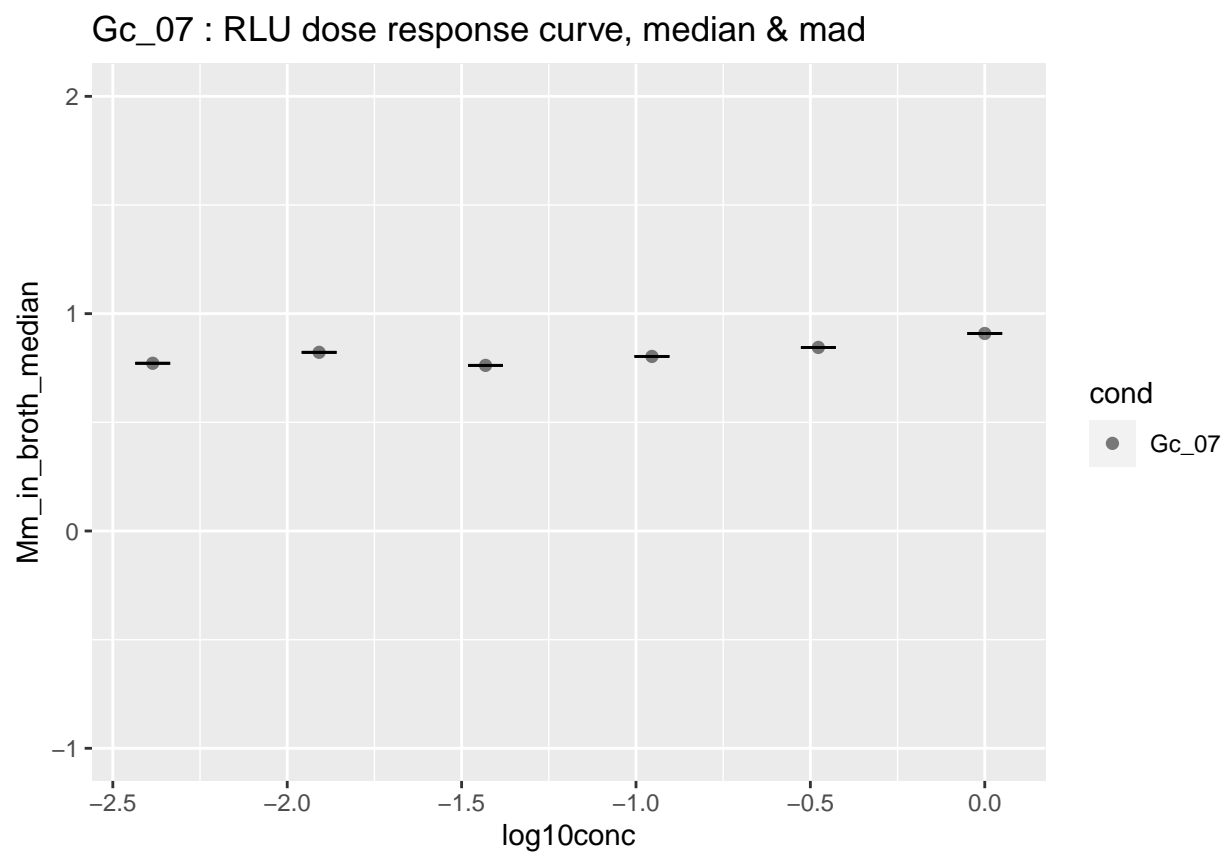


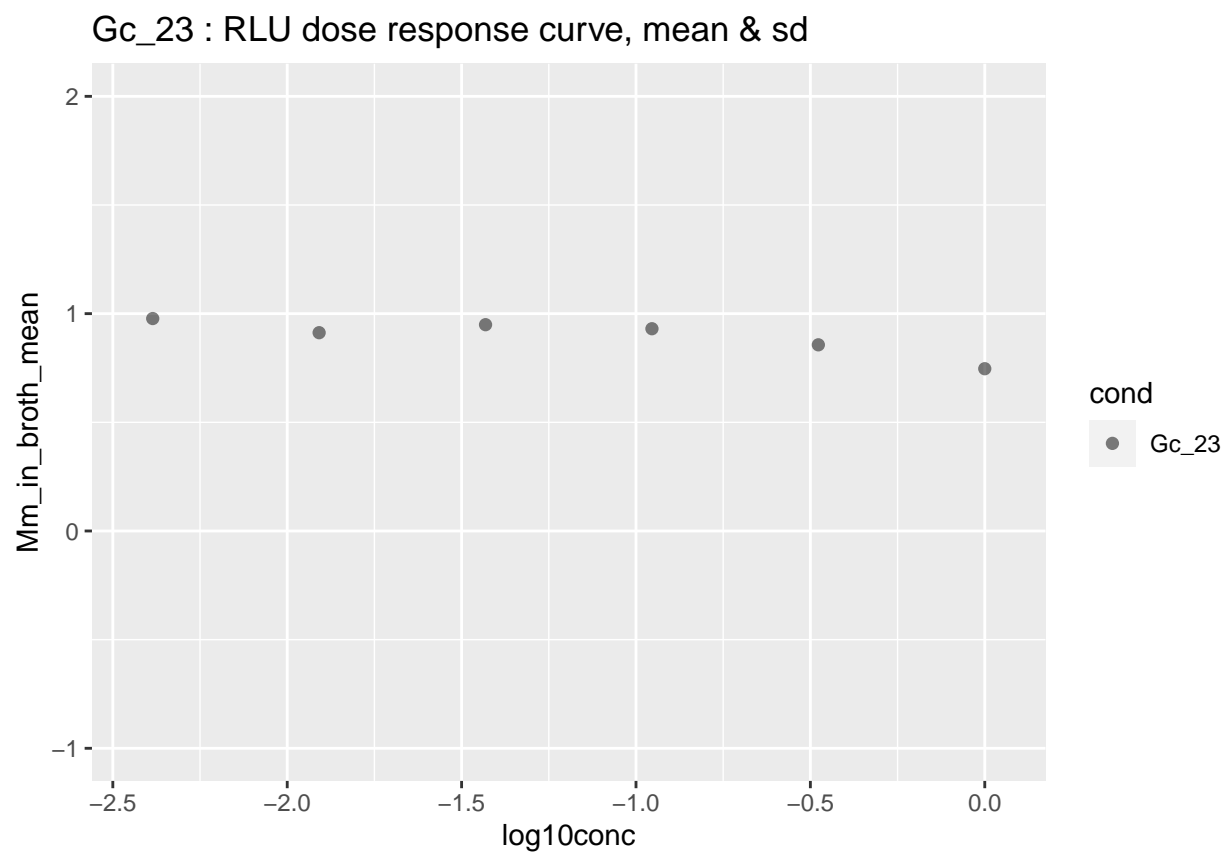


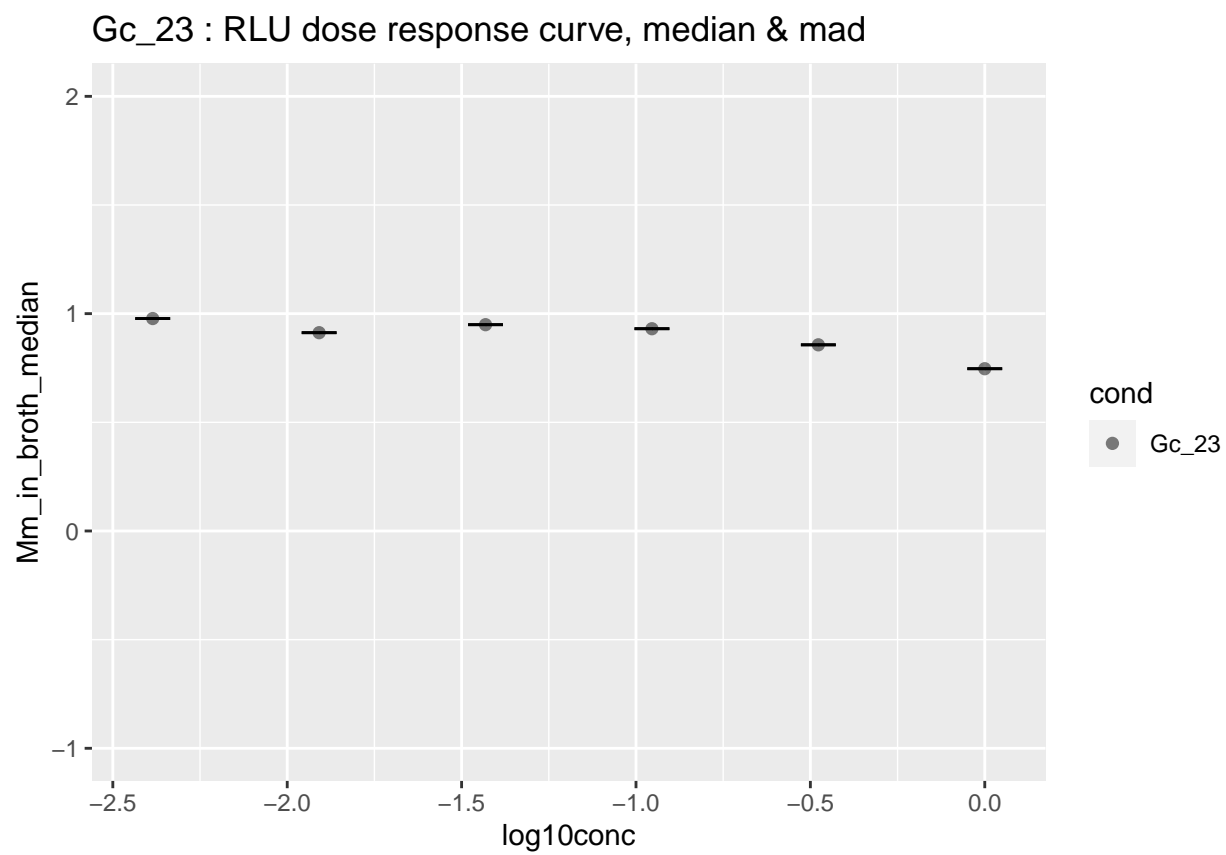
Fh_12 : RLU dose response curve, median & mad

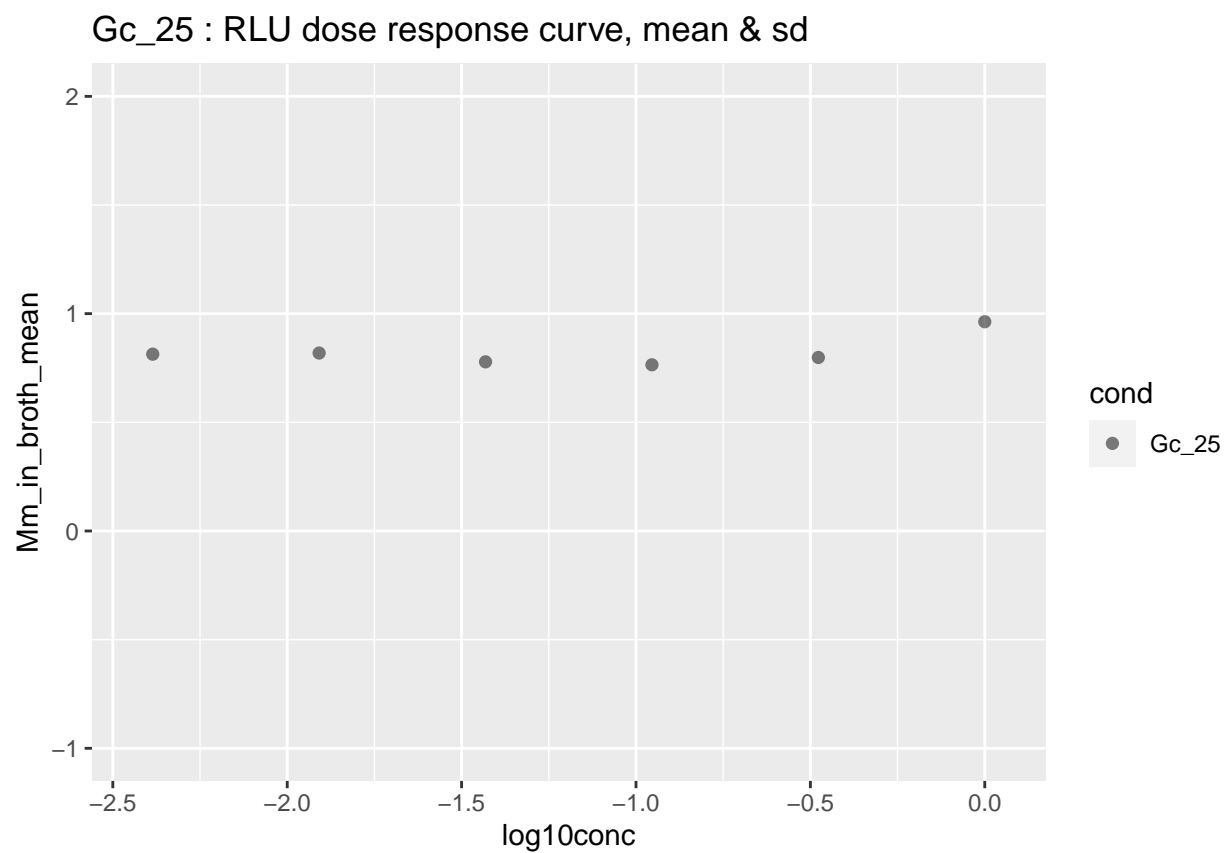




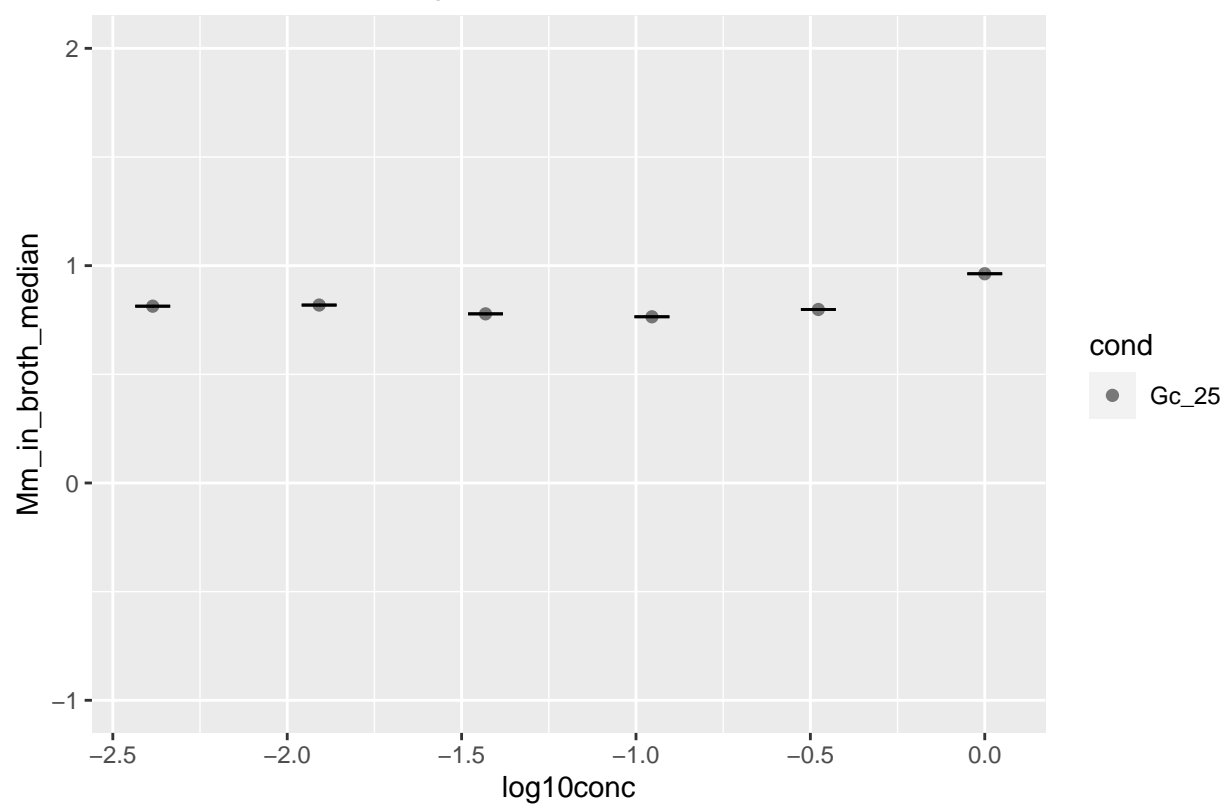


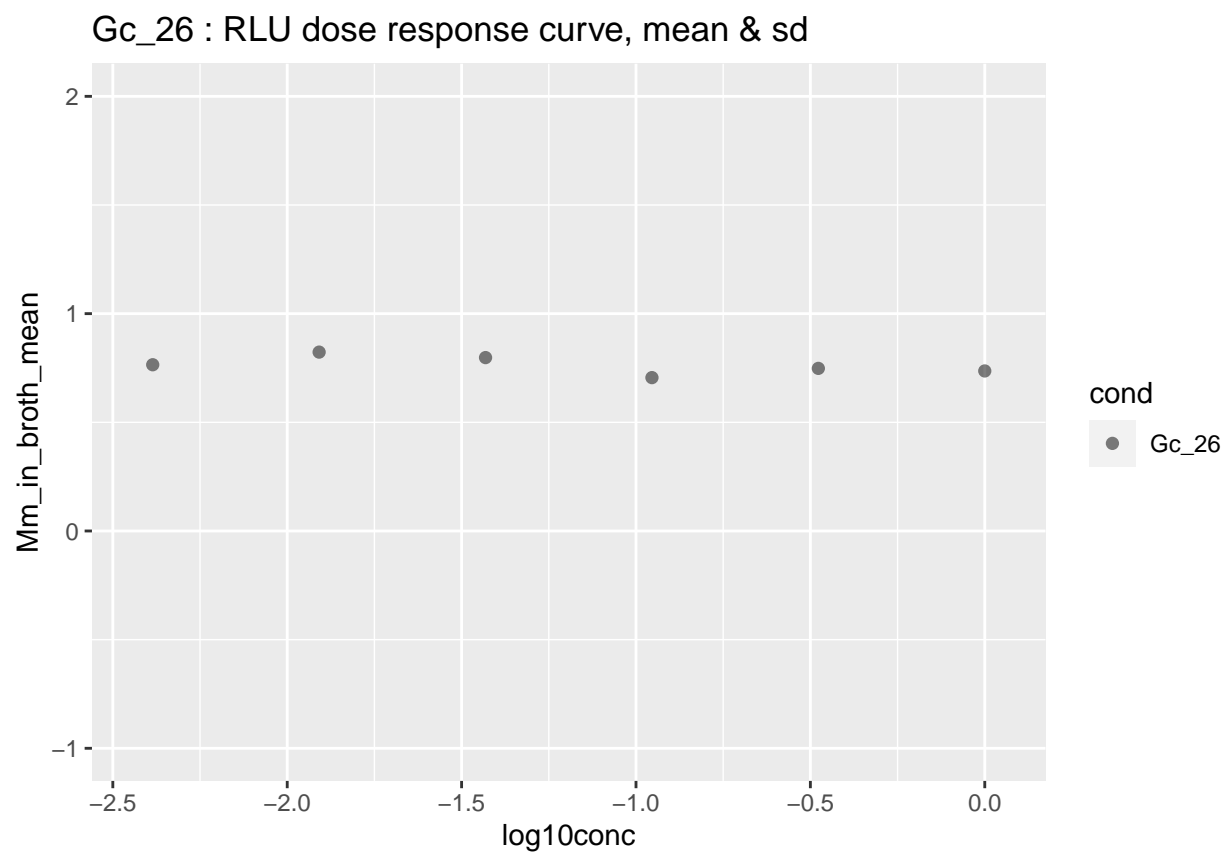




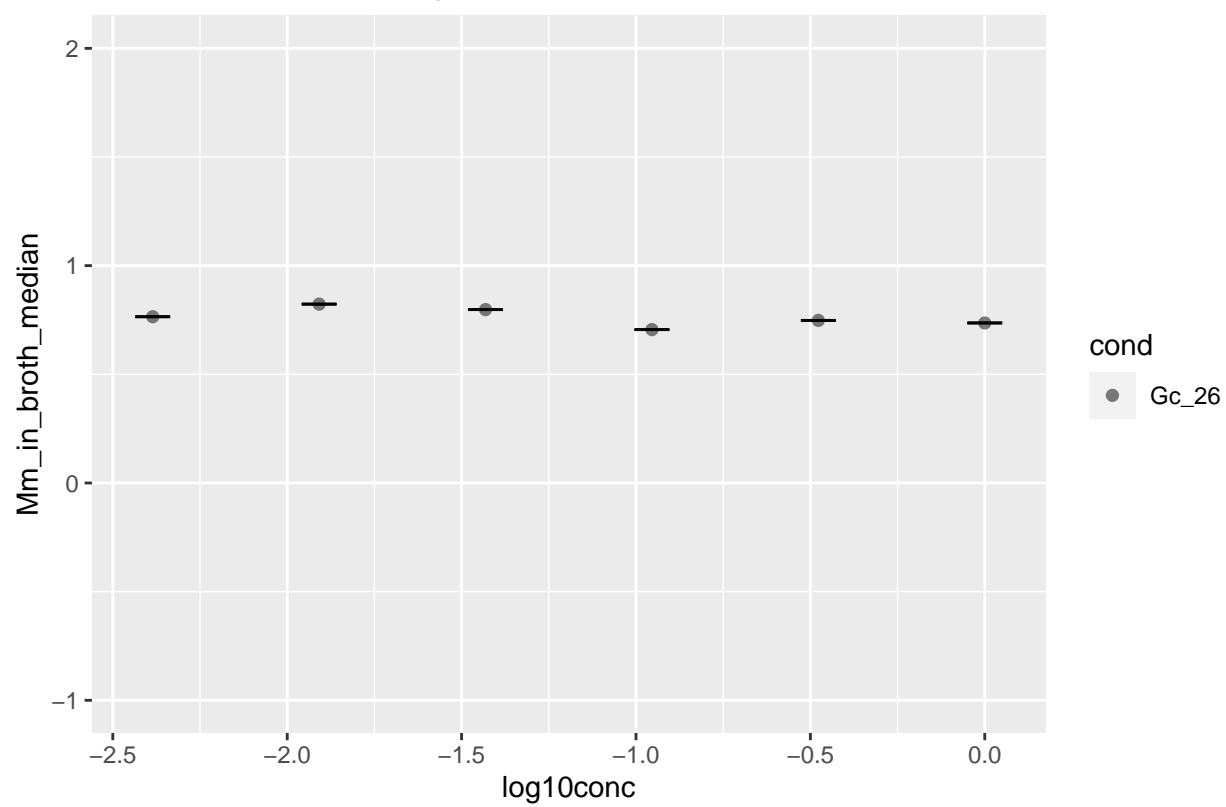


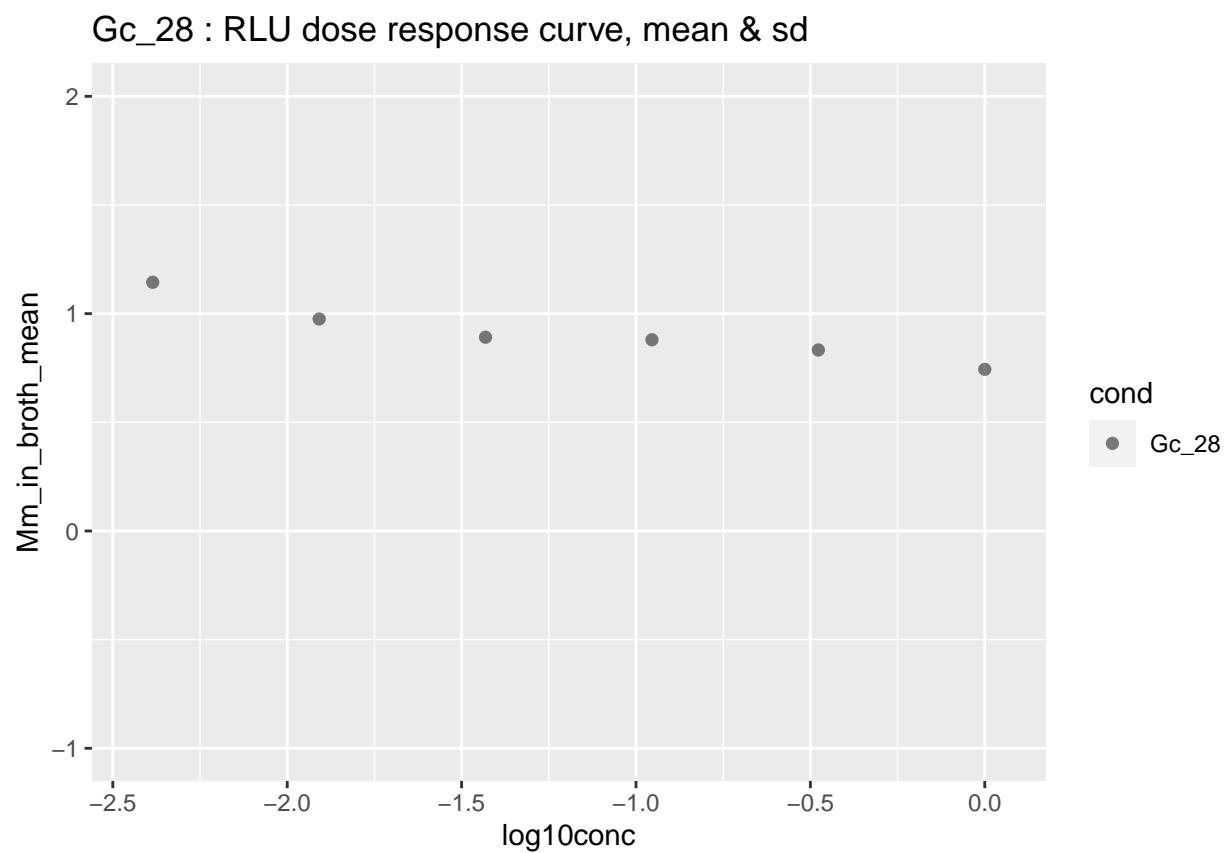
Gc_25 : RLU dose response curve, median & mad

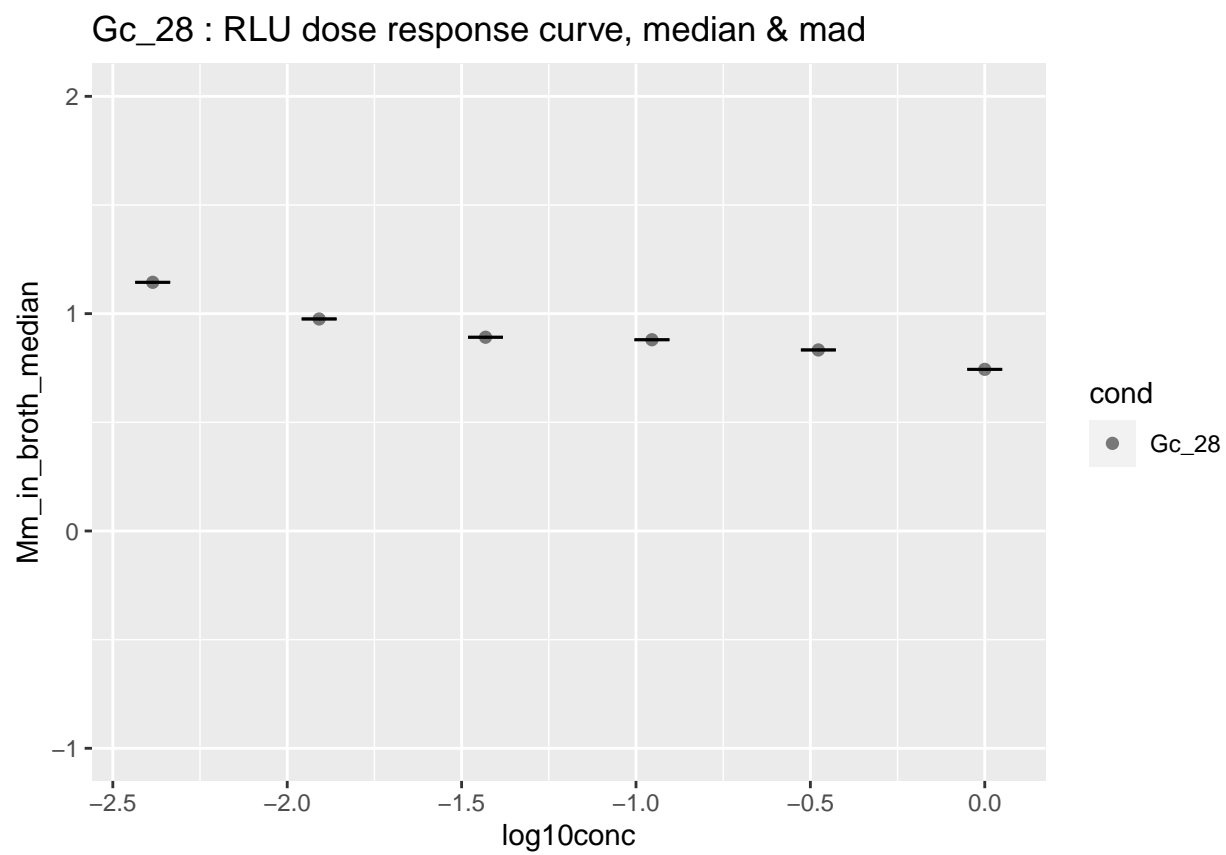


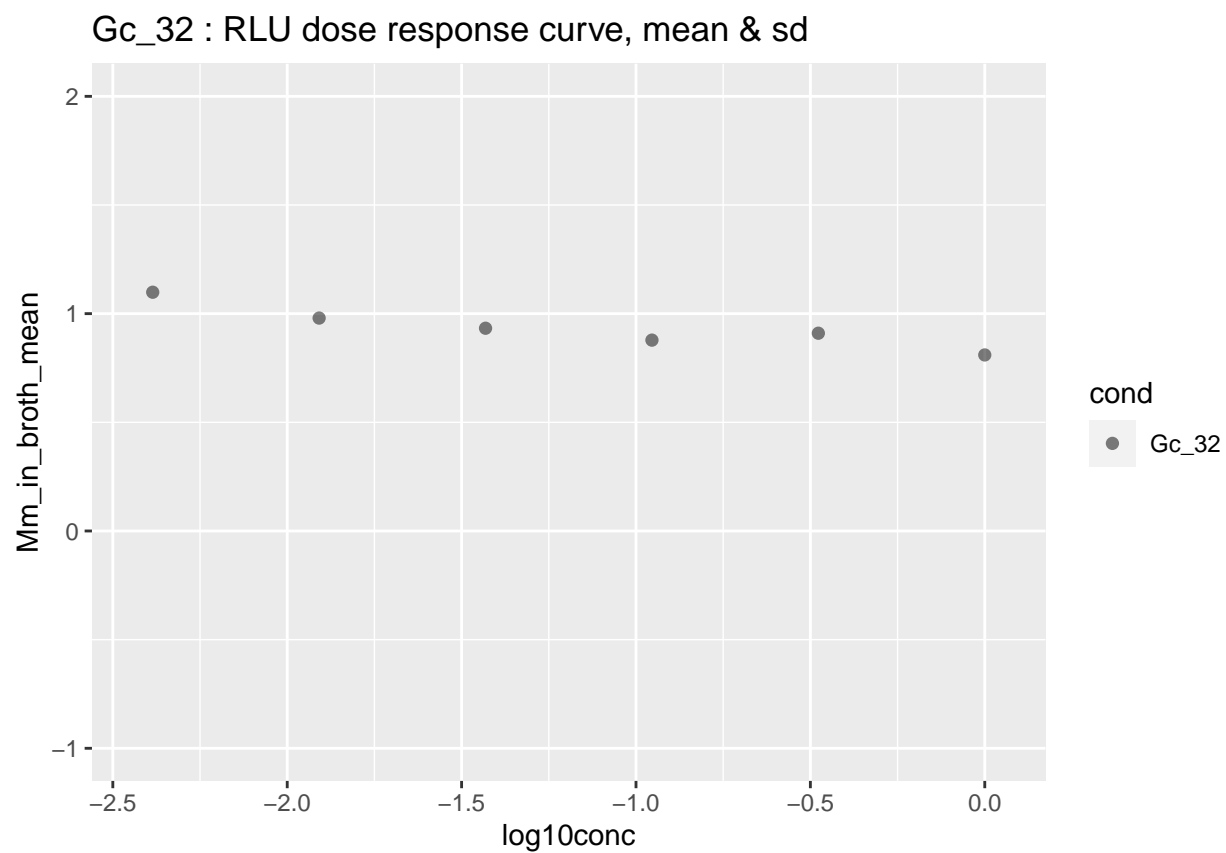


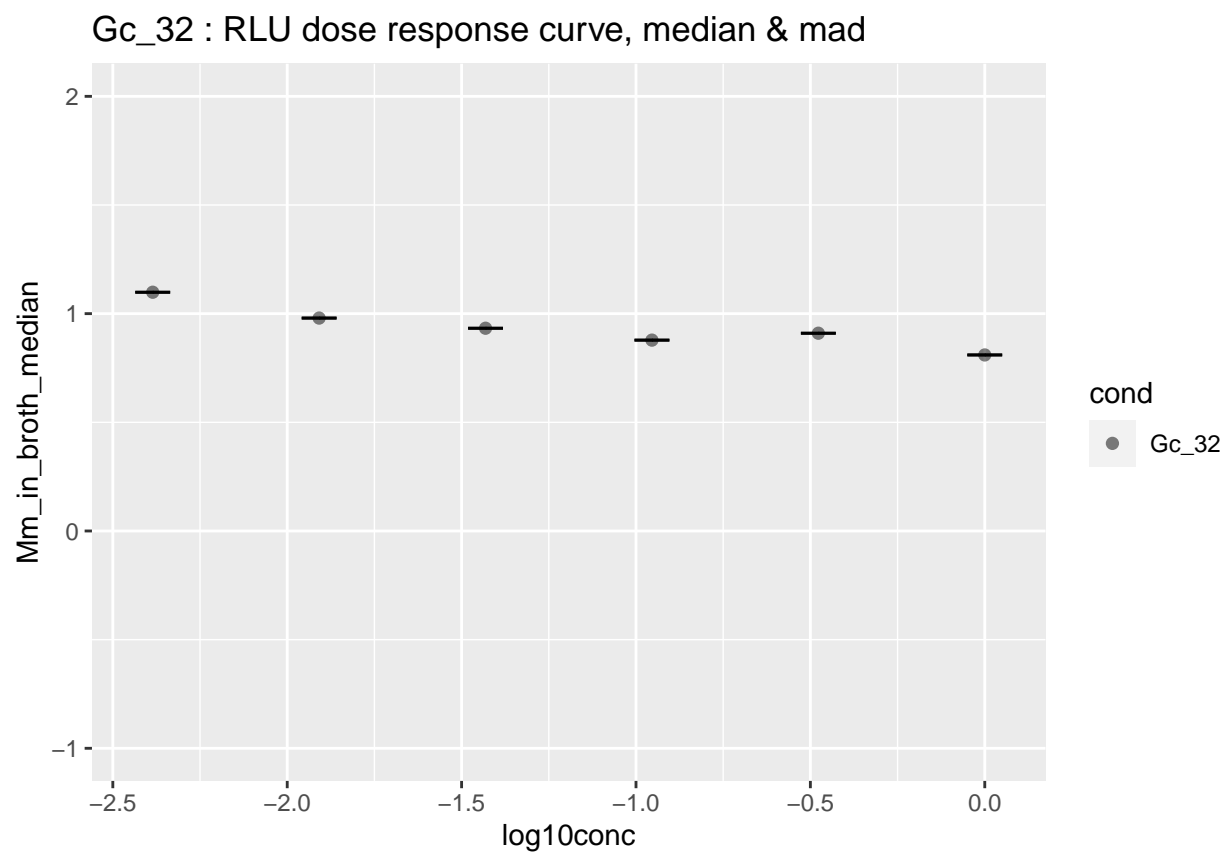
Gc_26 : RLU dose response curve, median & mad

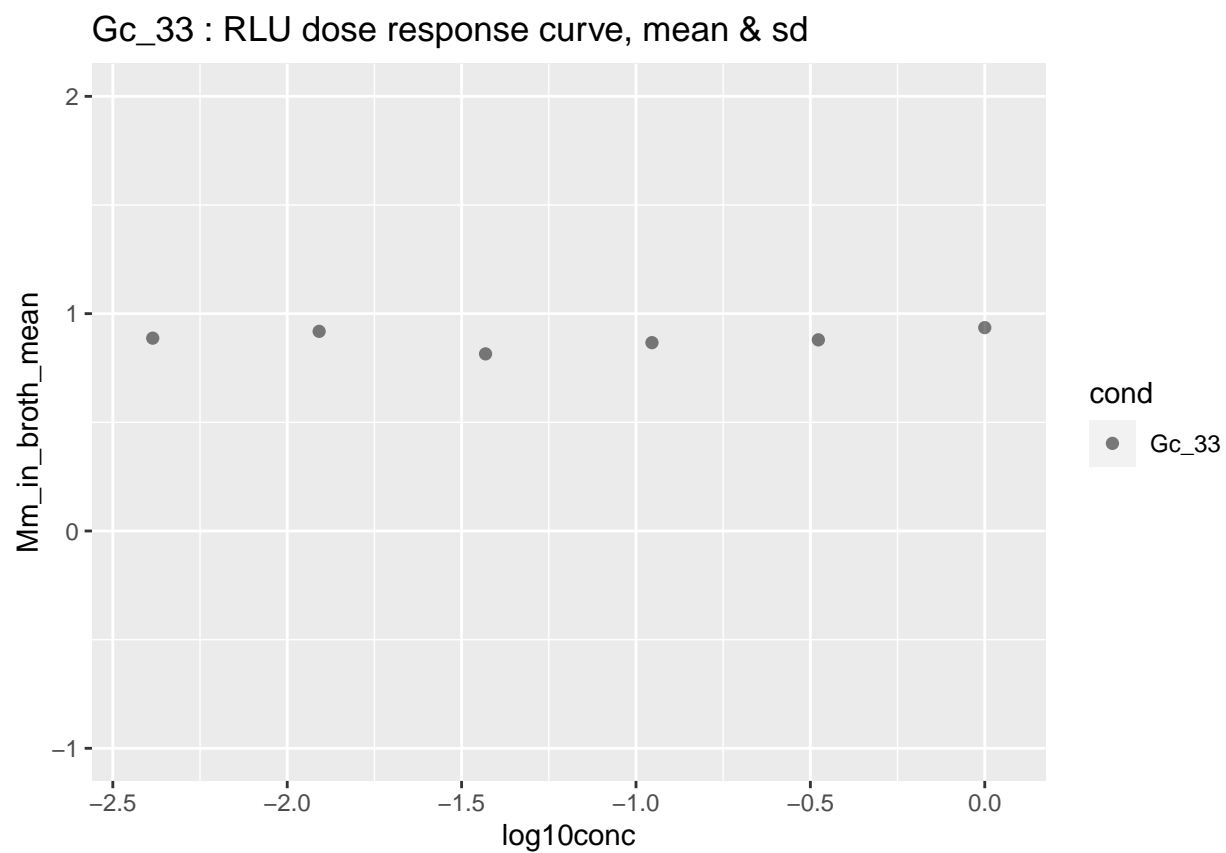




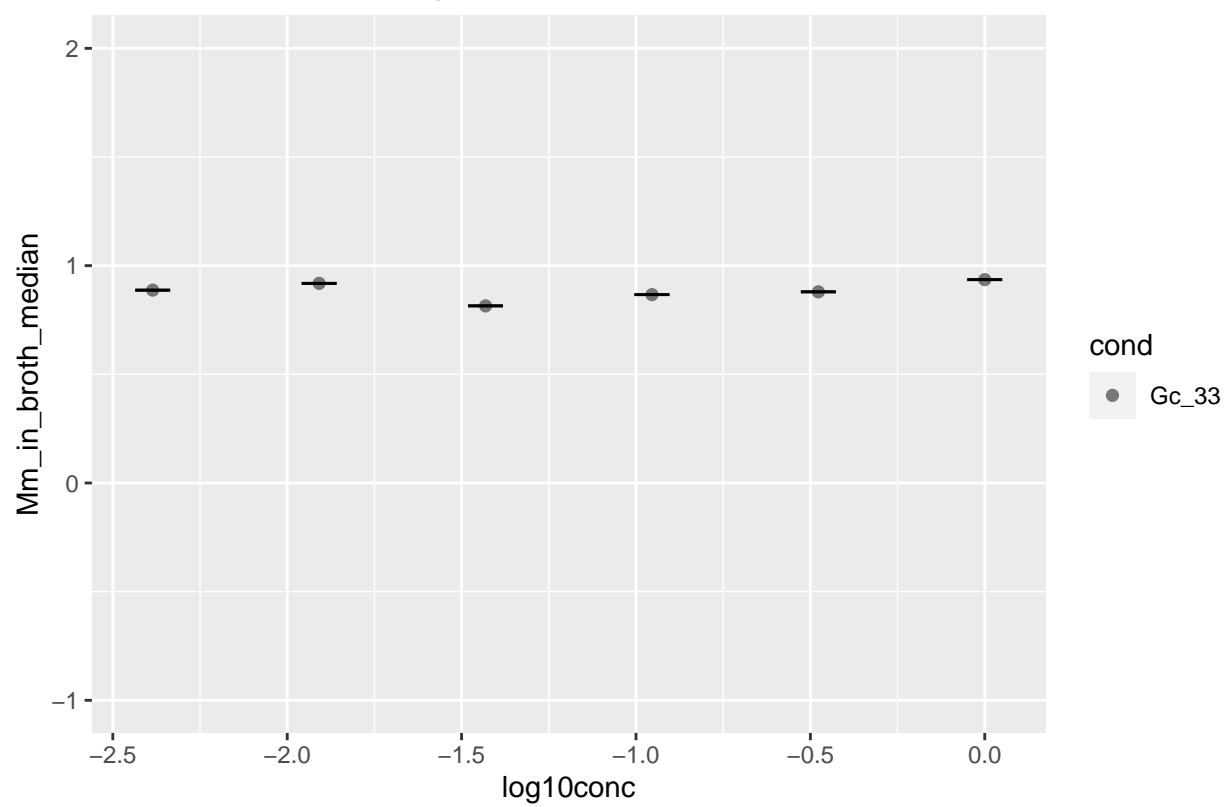


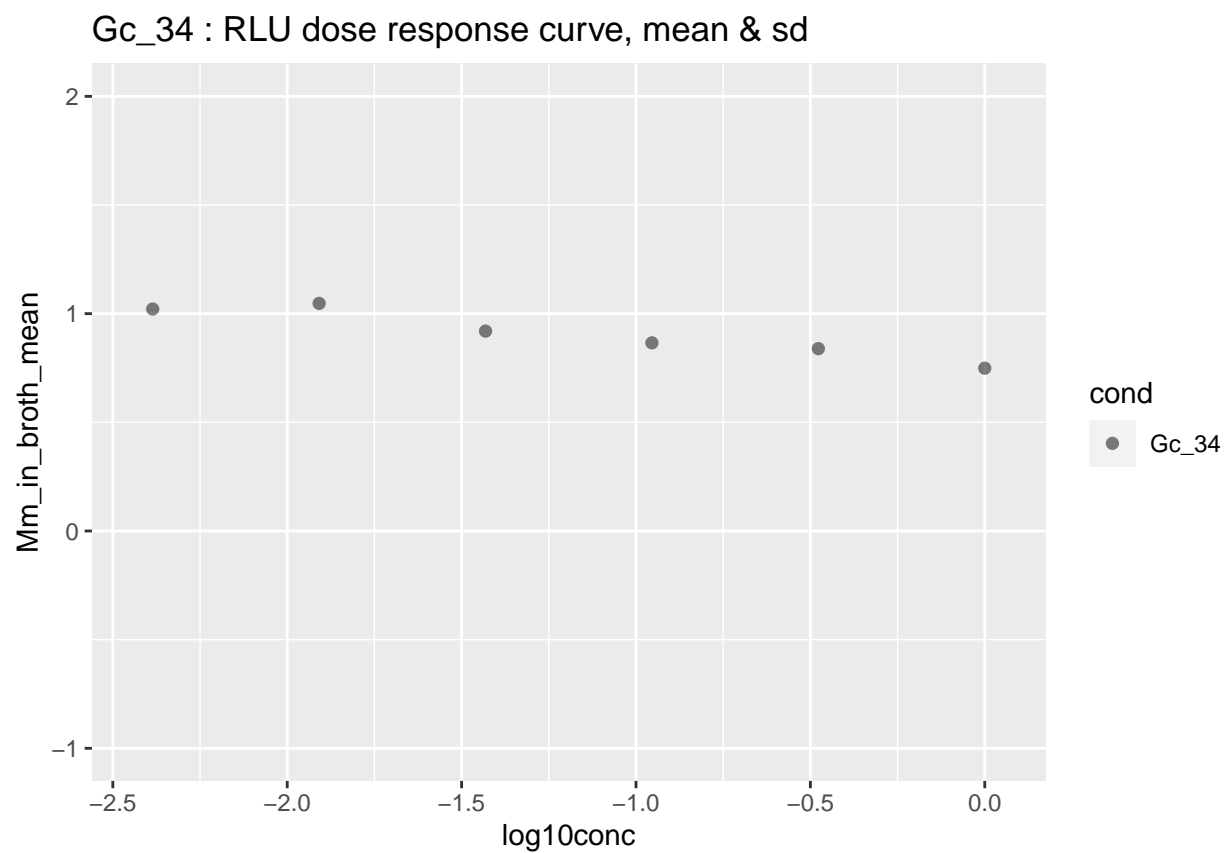




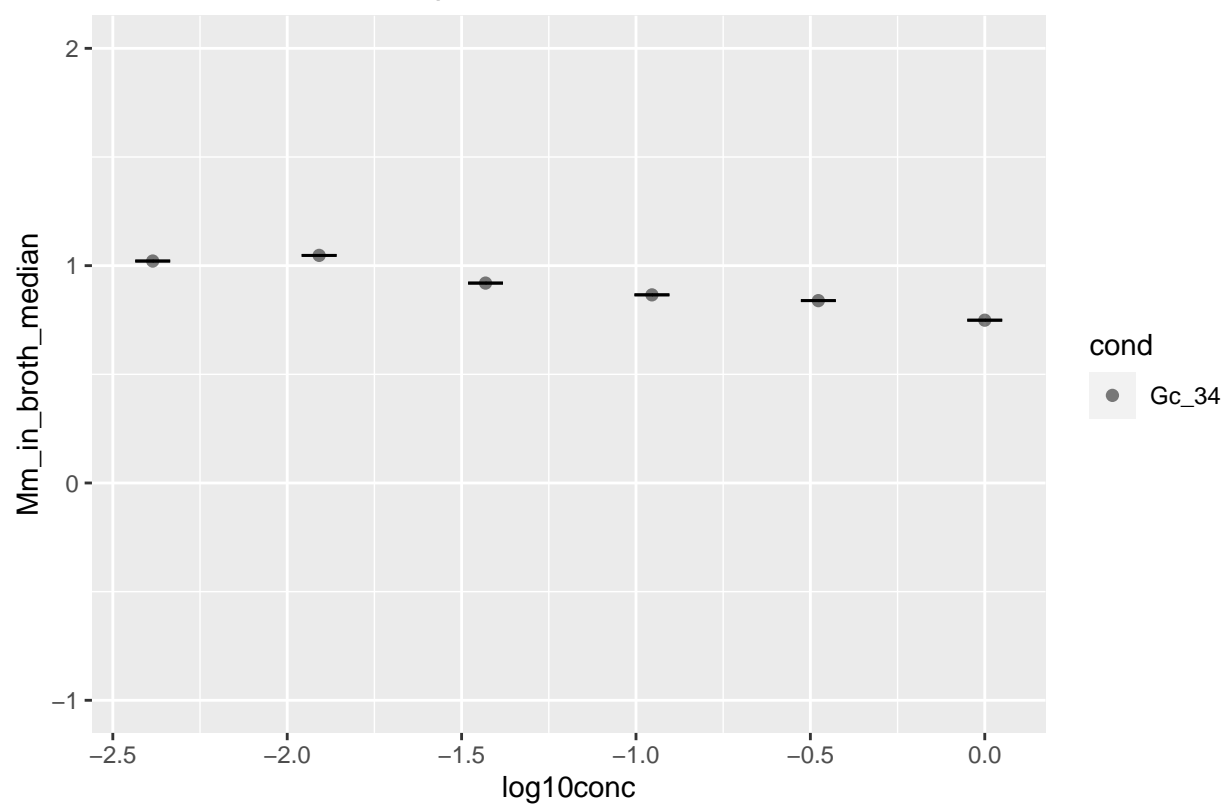


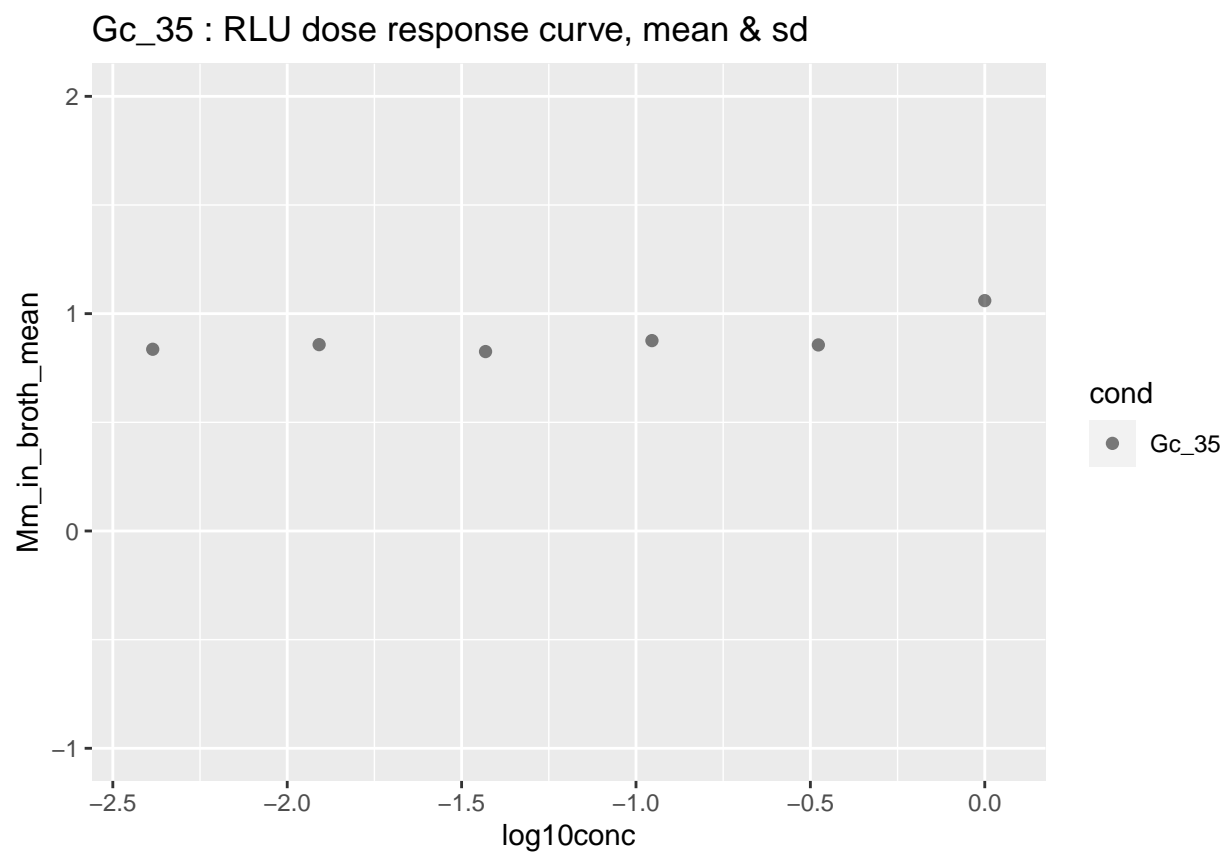
Gc_33 : RLU dose response curve, median & mad



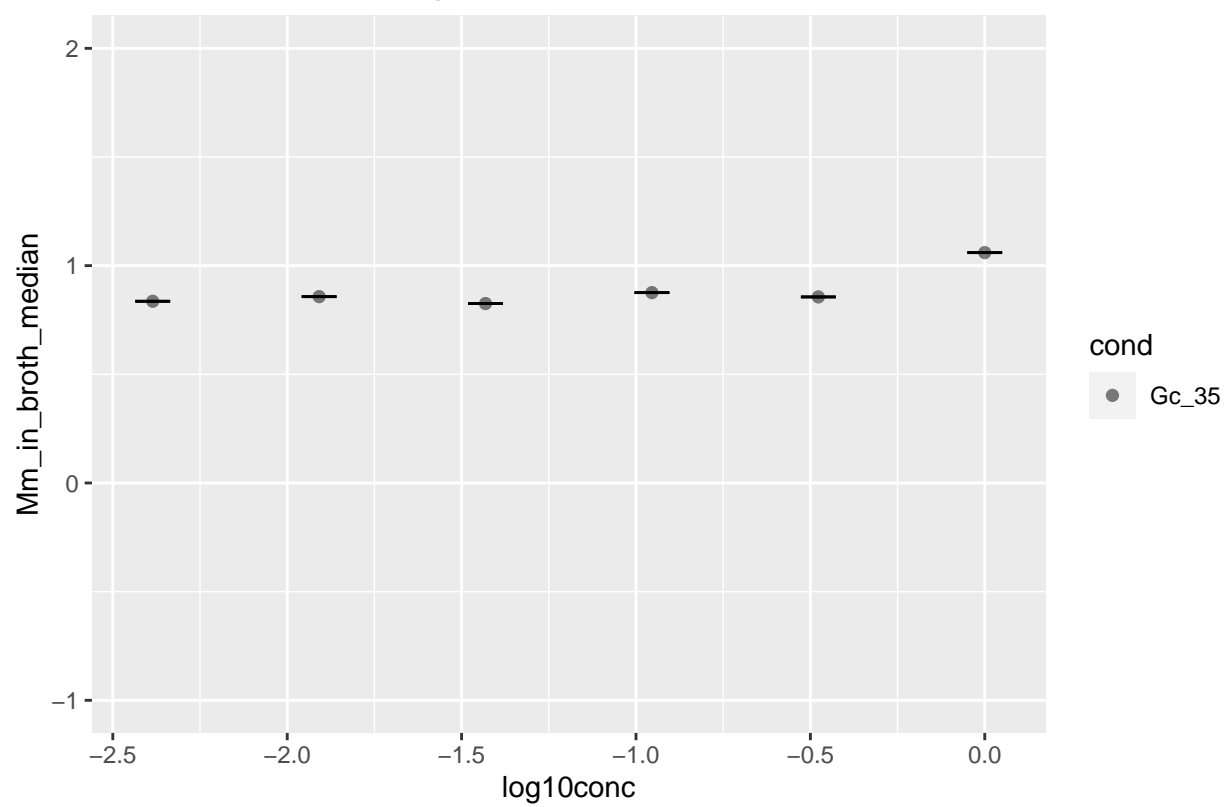


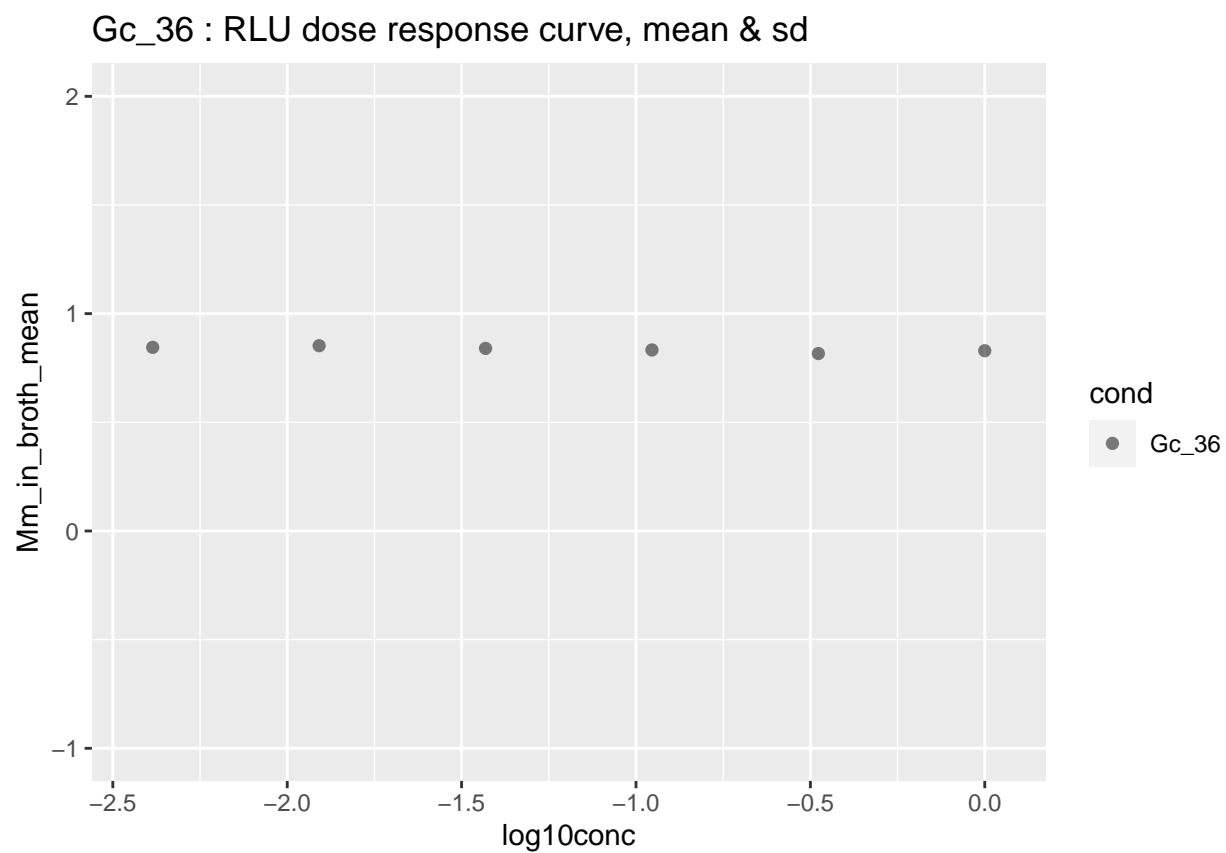
Gc_34 : RLU dose response curve, median & mad



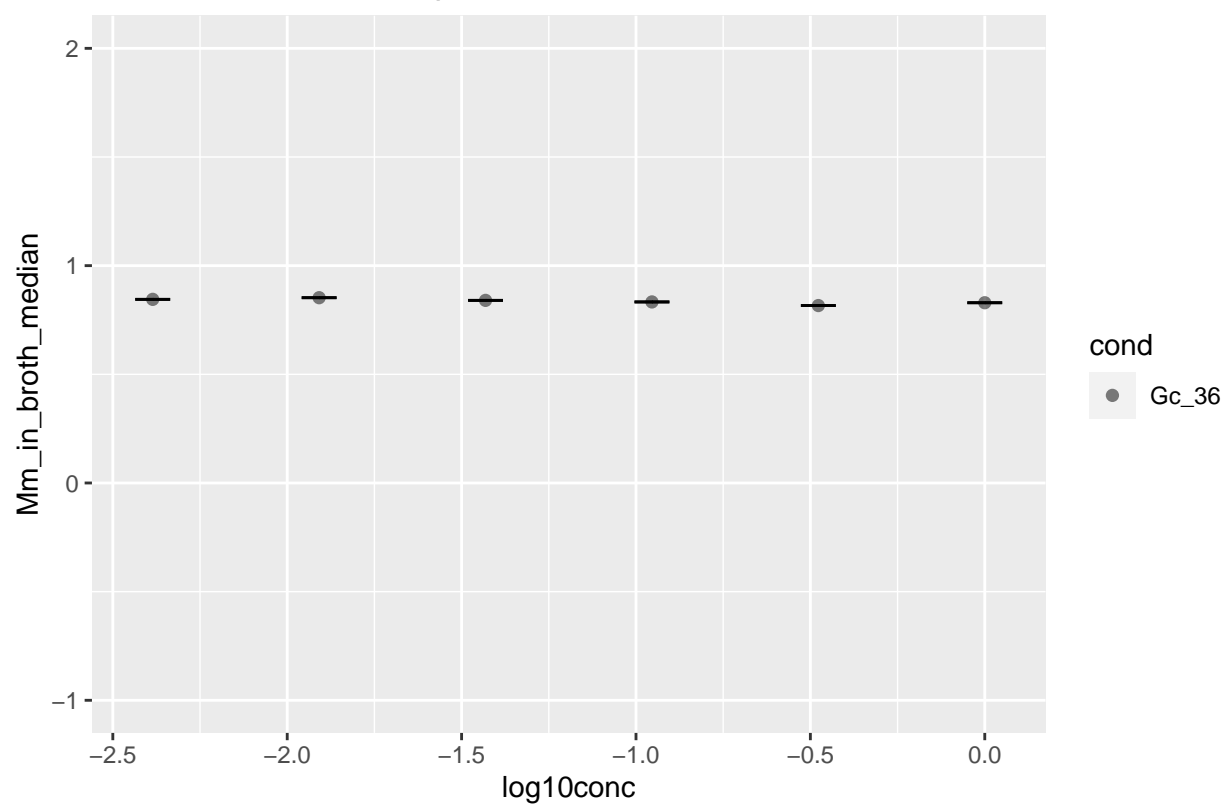


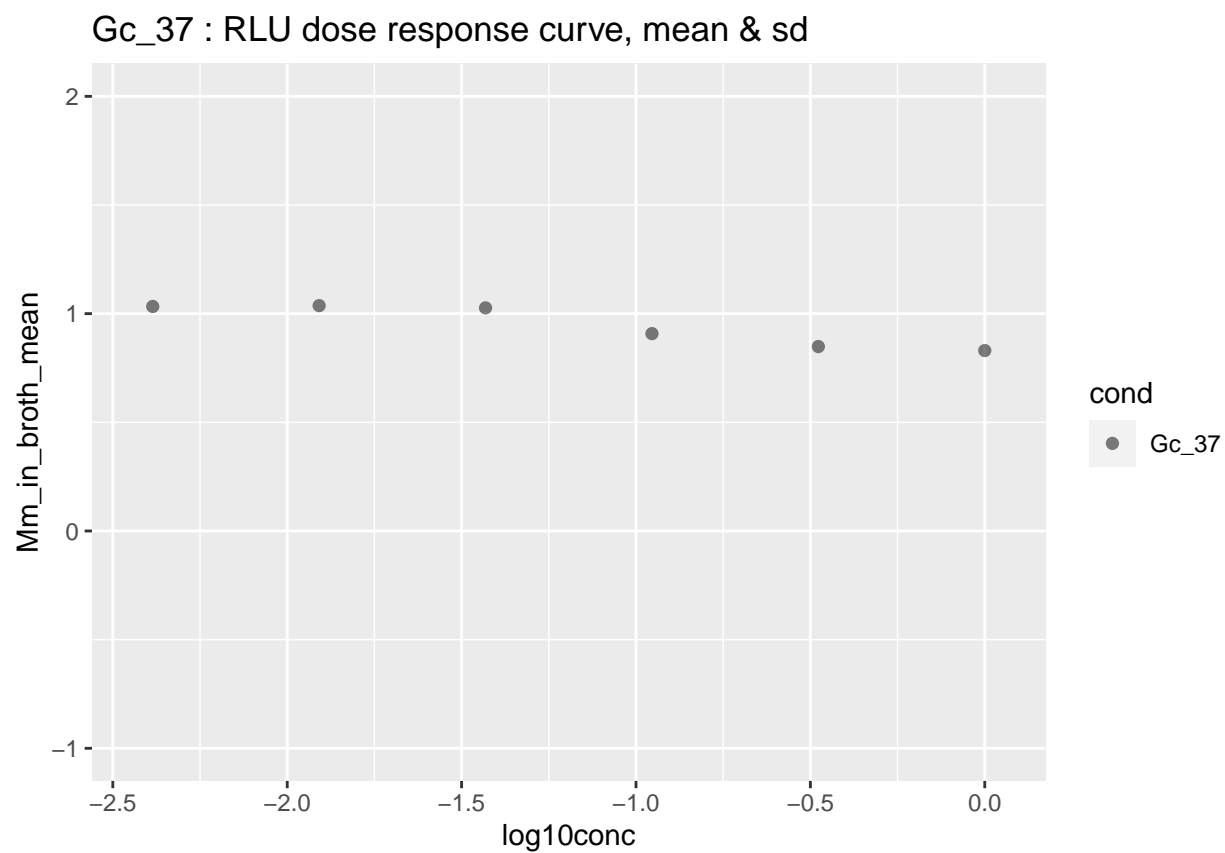
Gc_35 : RLU dose response curve, median & mad



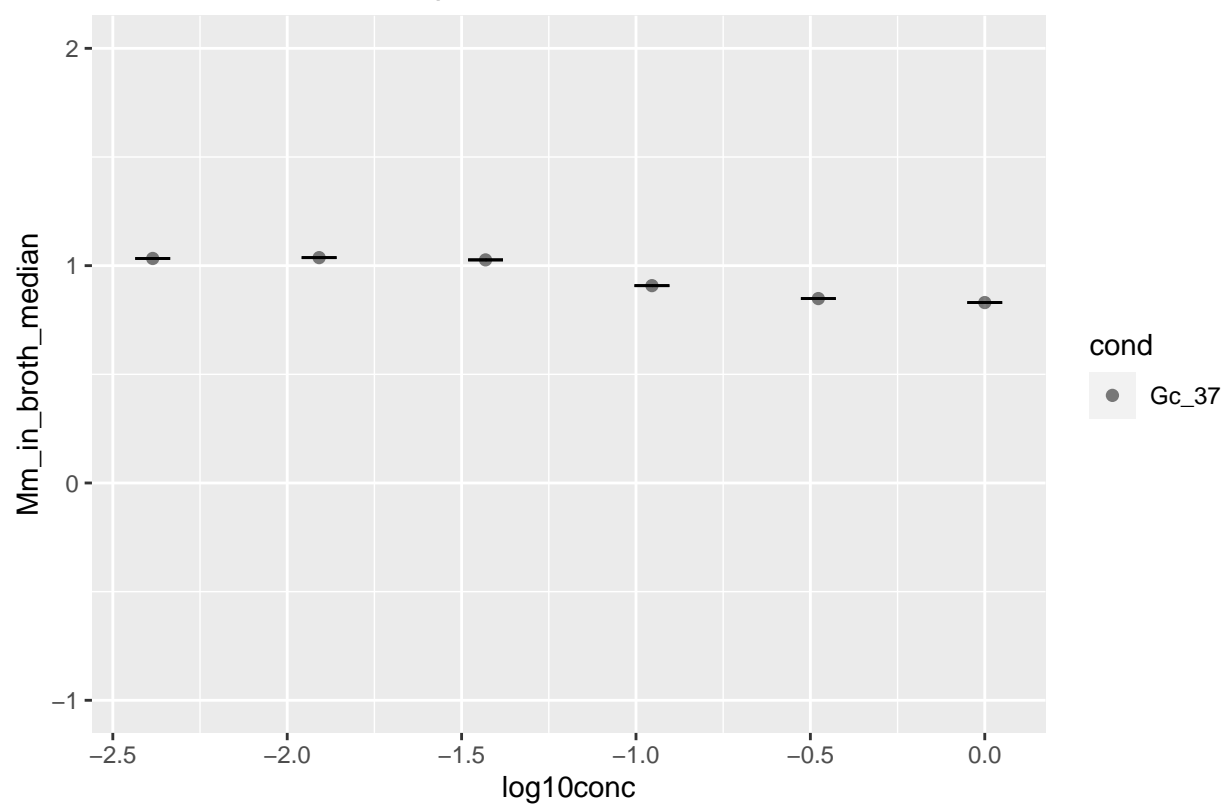


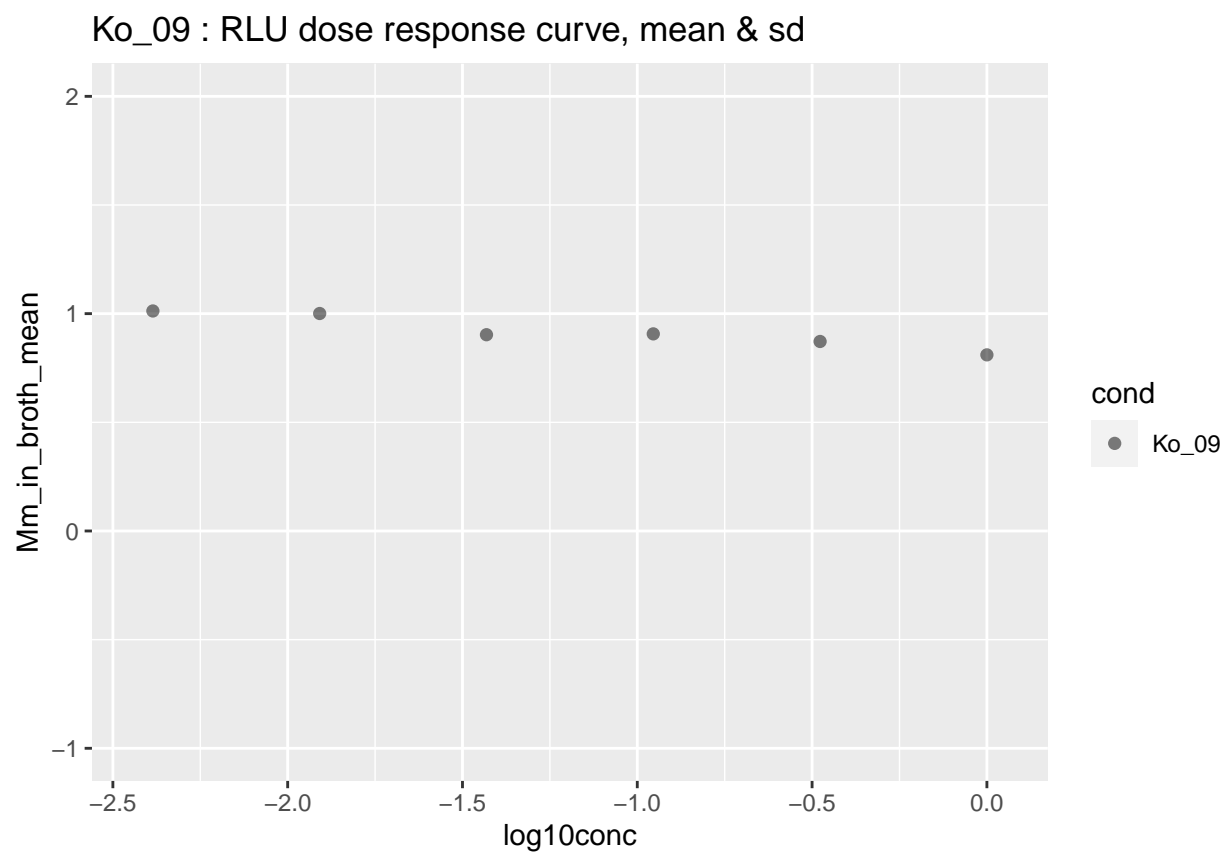
Gc_36 : RLU dose response curve, median & mad

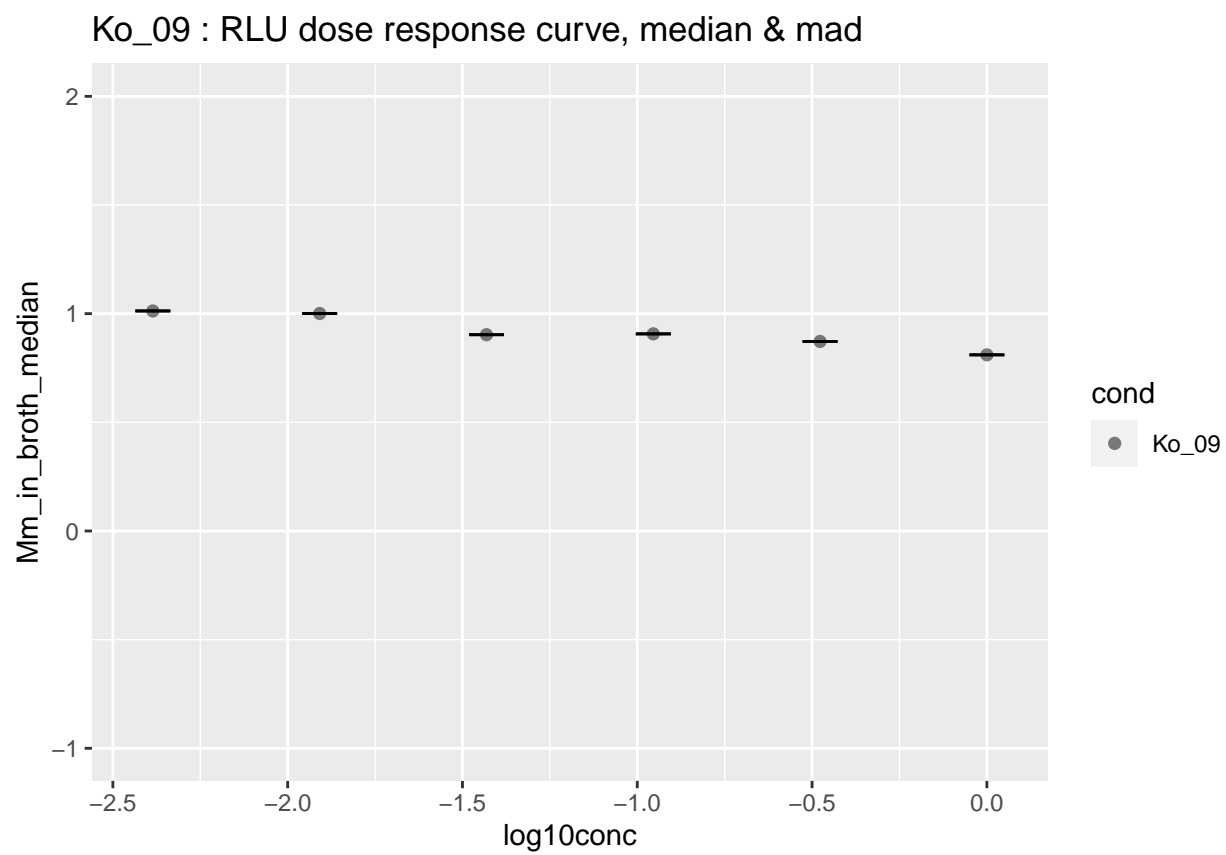


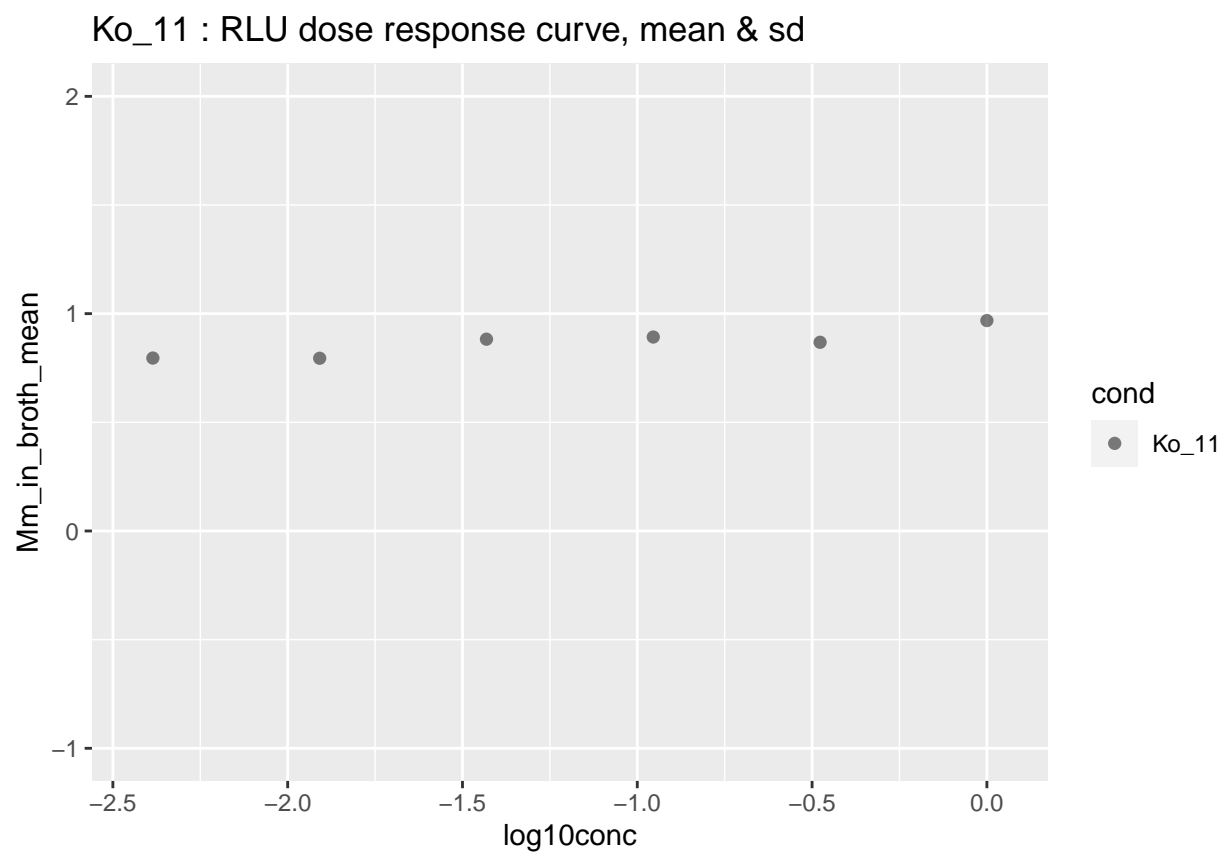


Gc_37 : RLU dose response curve, median & mad

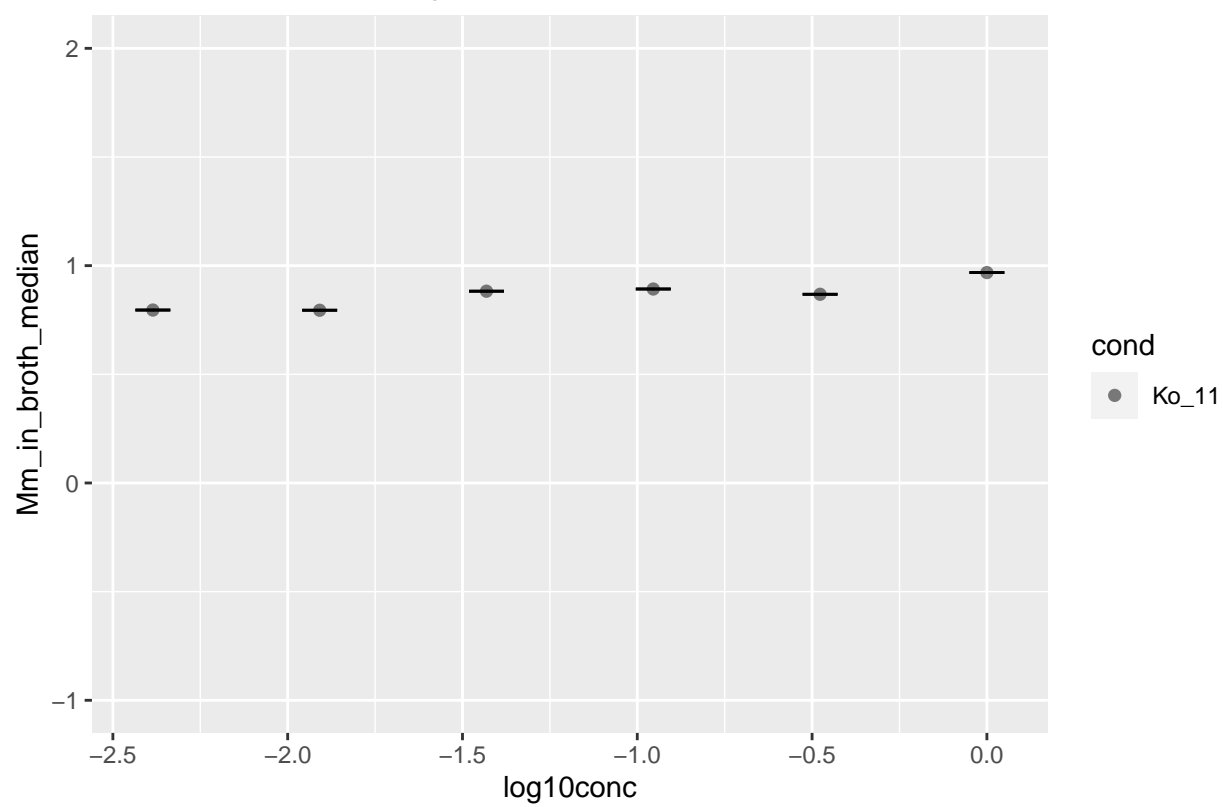


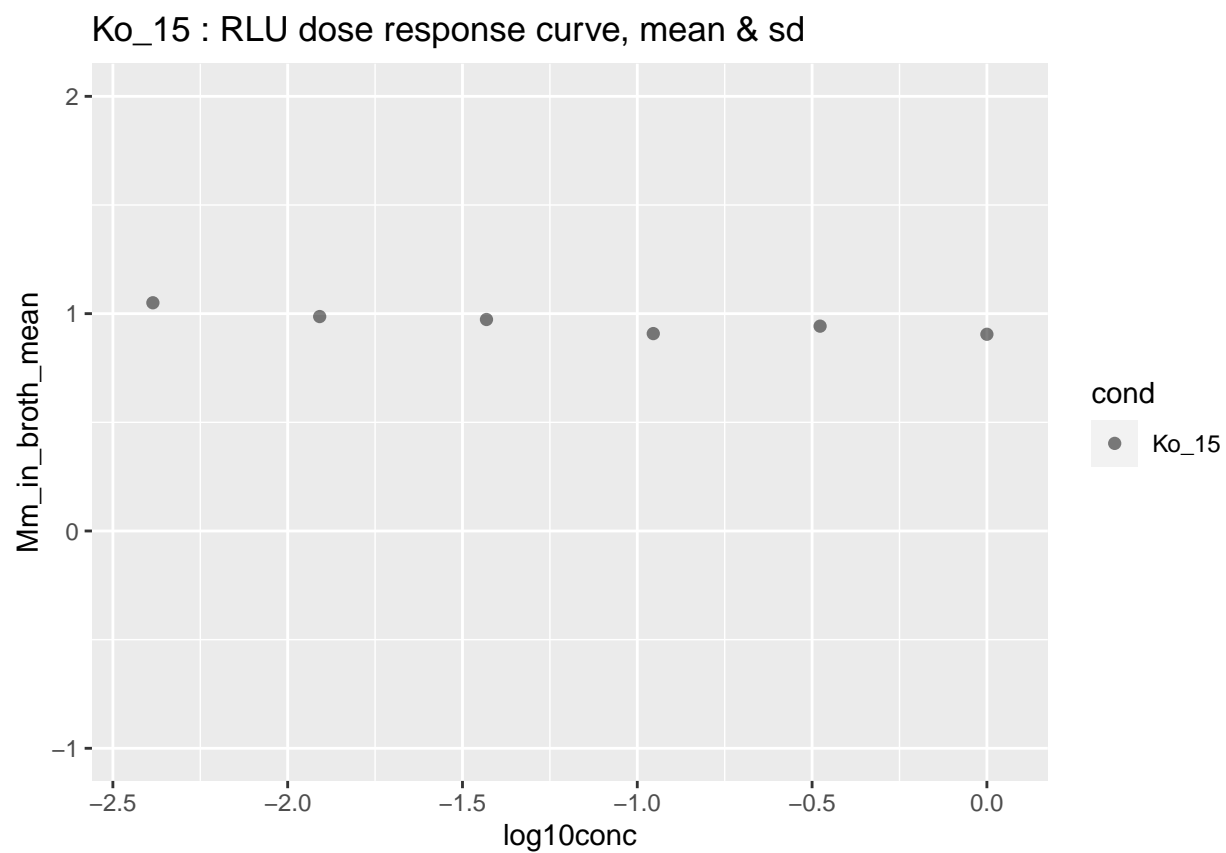




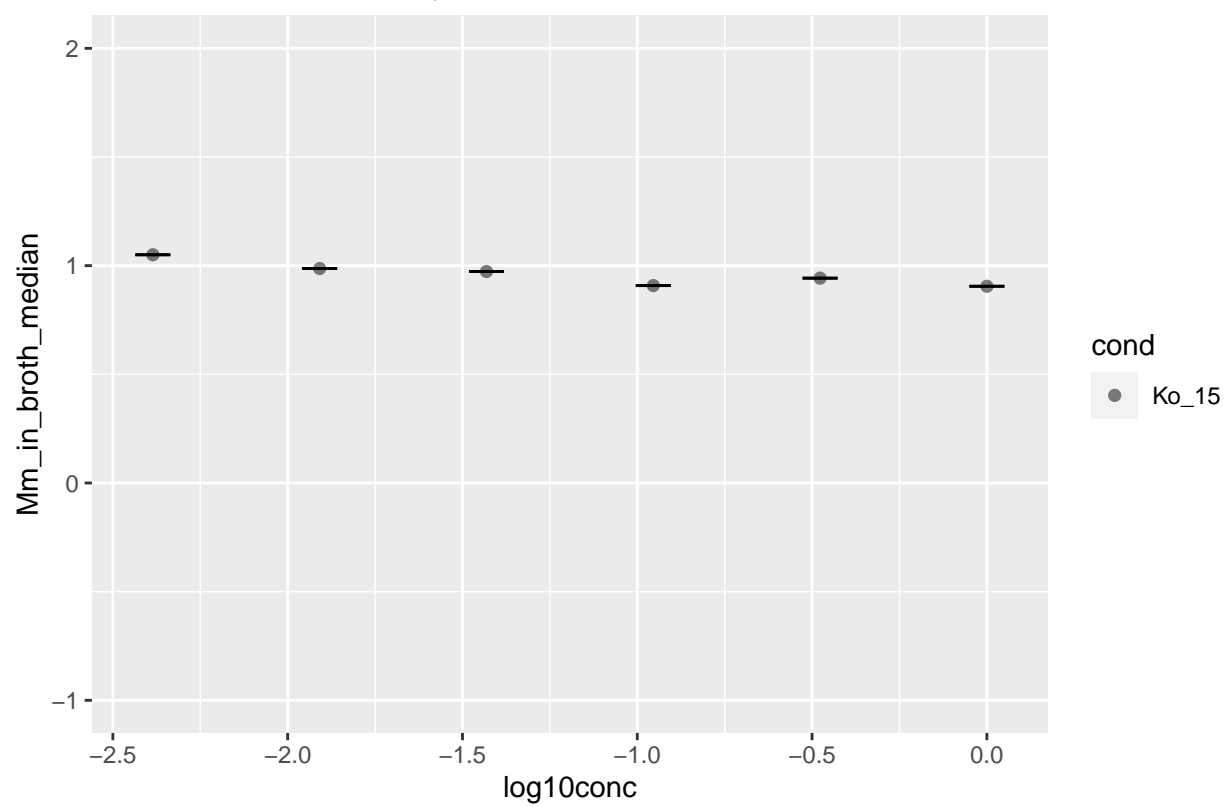


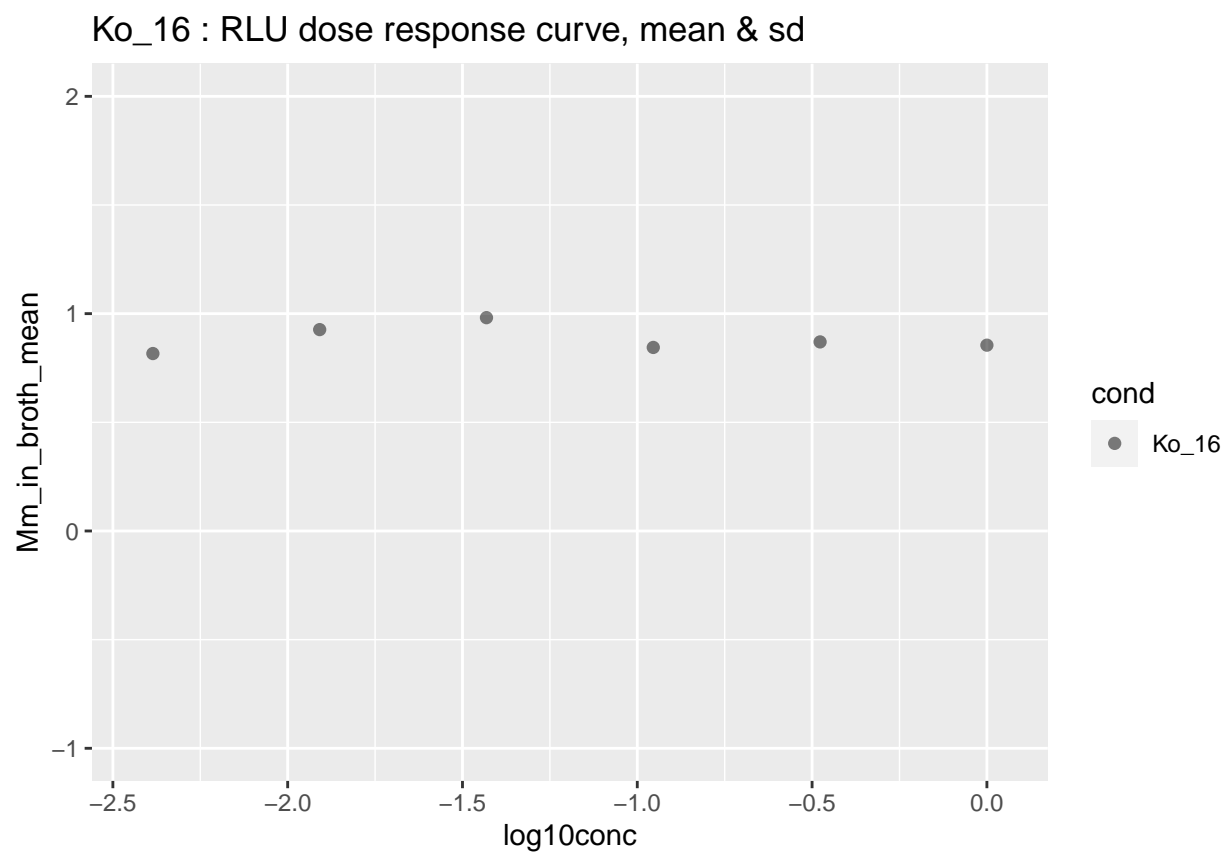
Ko_11 : RLU dose response curve, median & mad

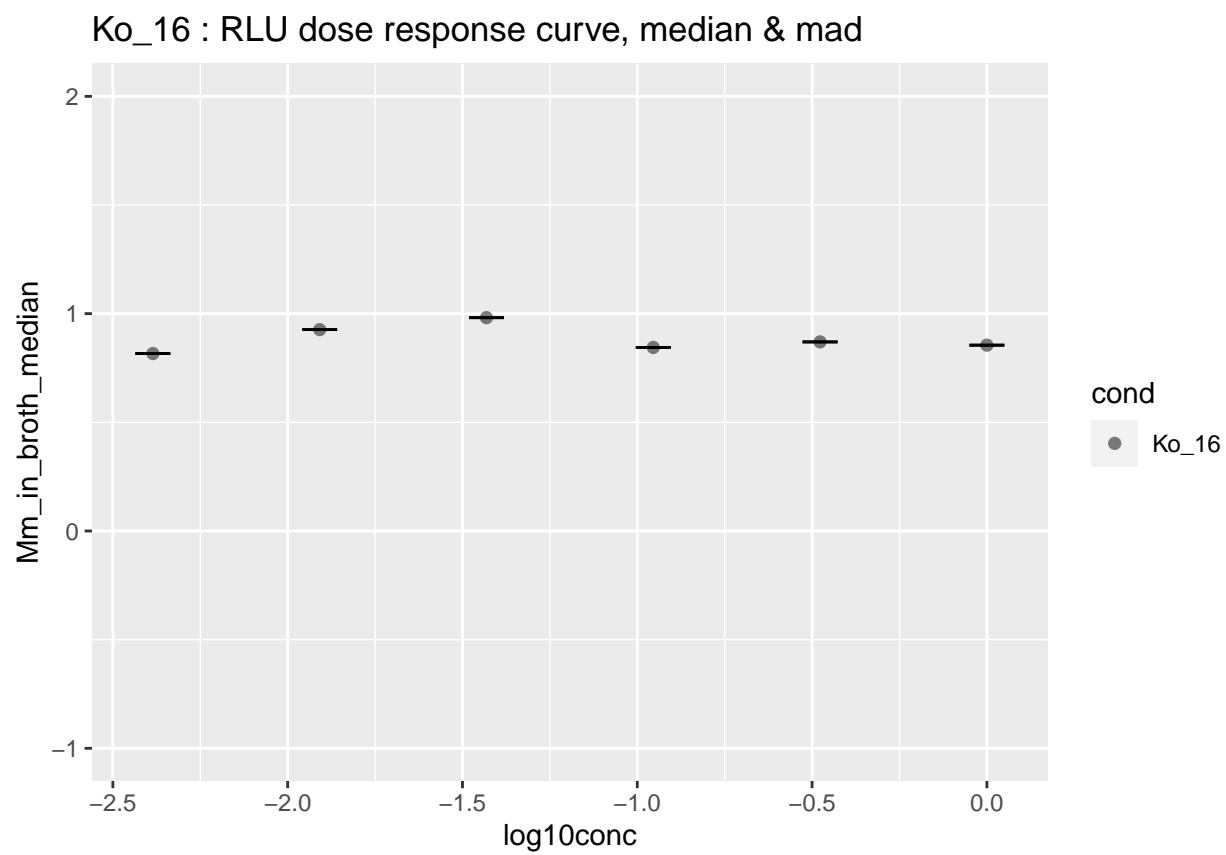


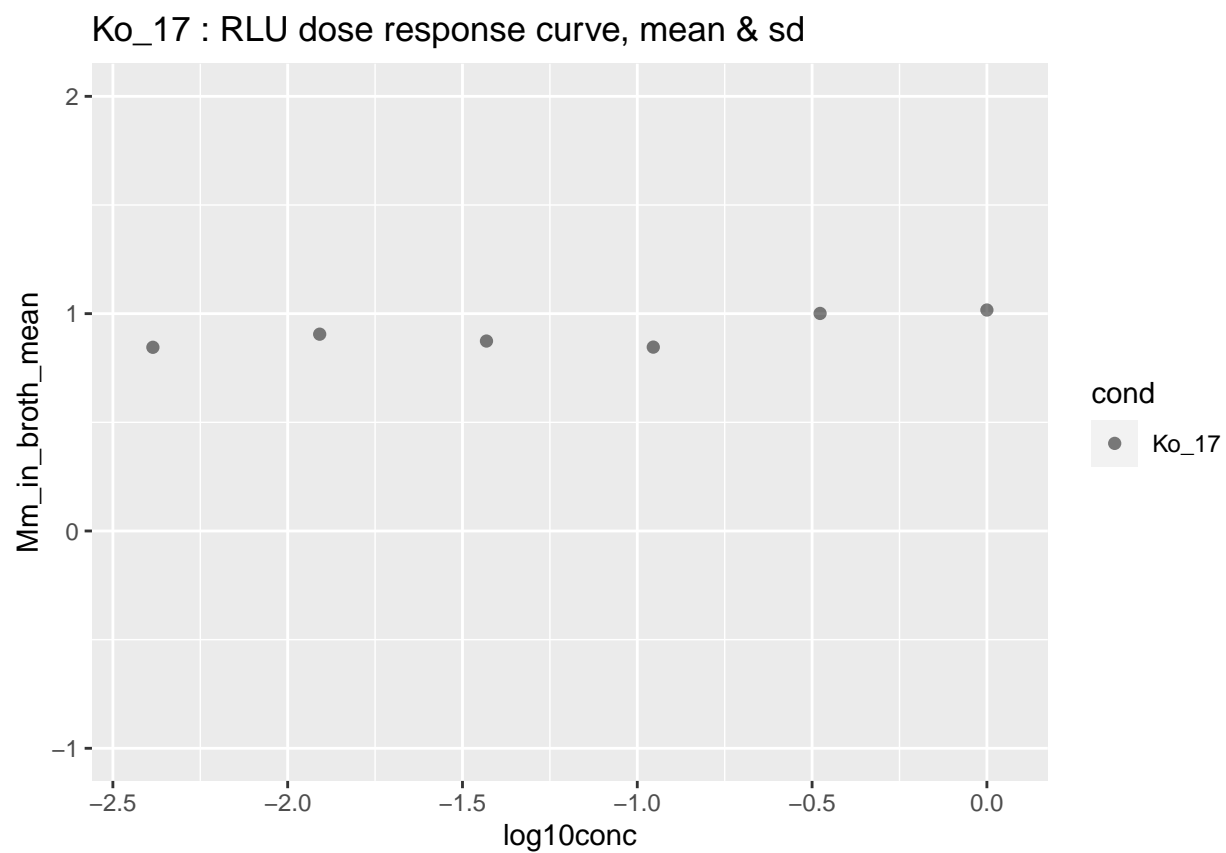


Ko_15 : RLU dose response curve, median & mad

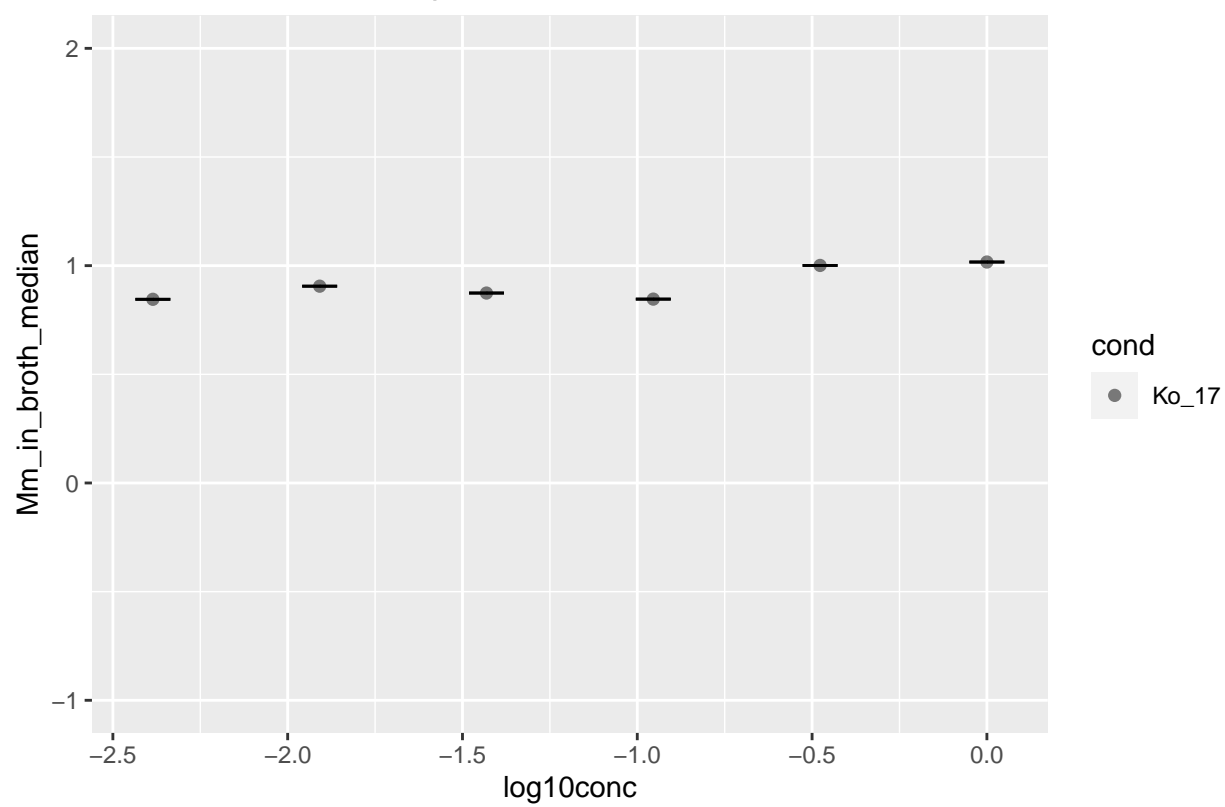


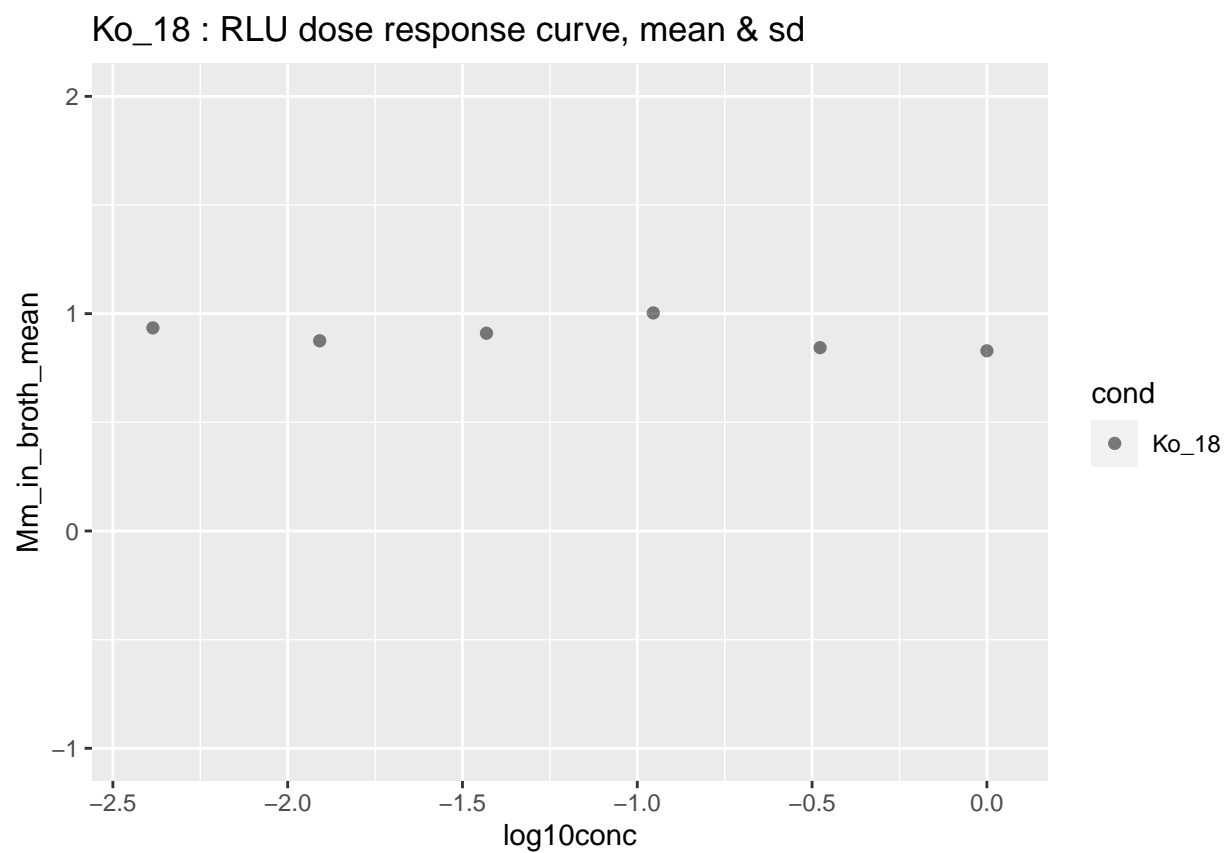




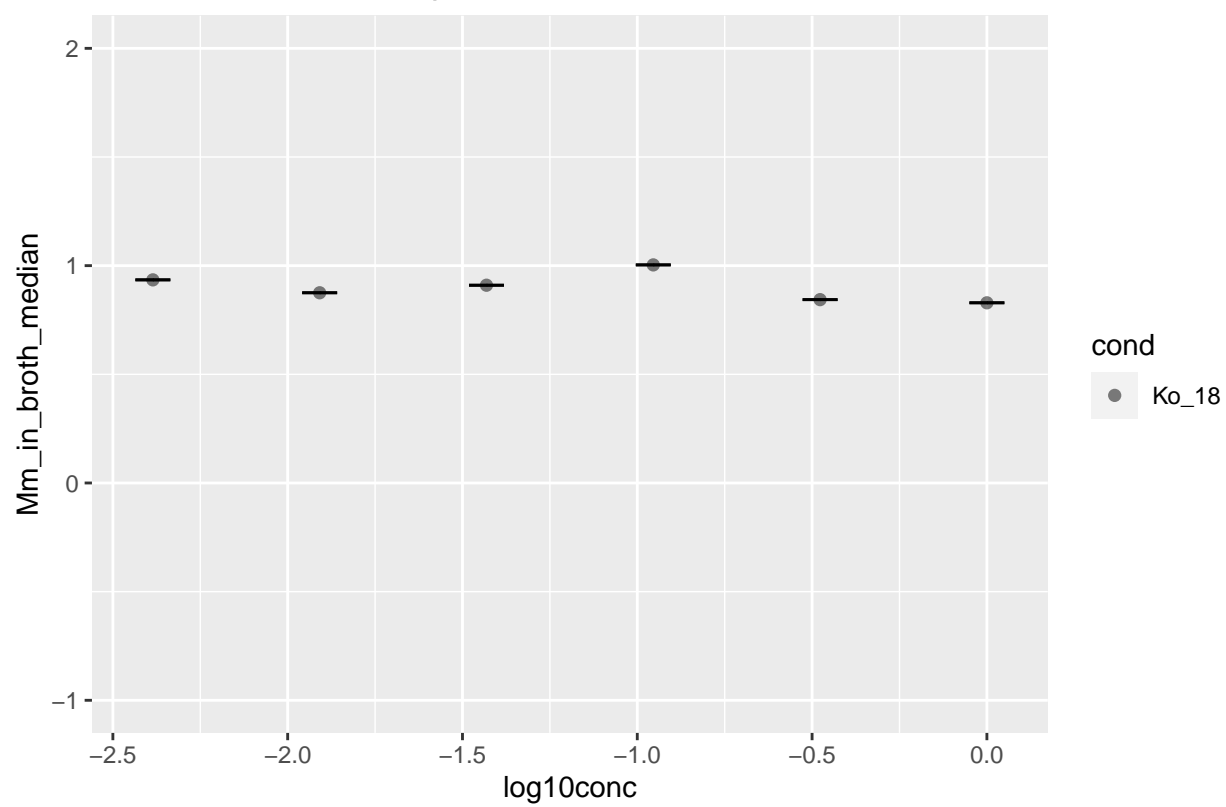


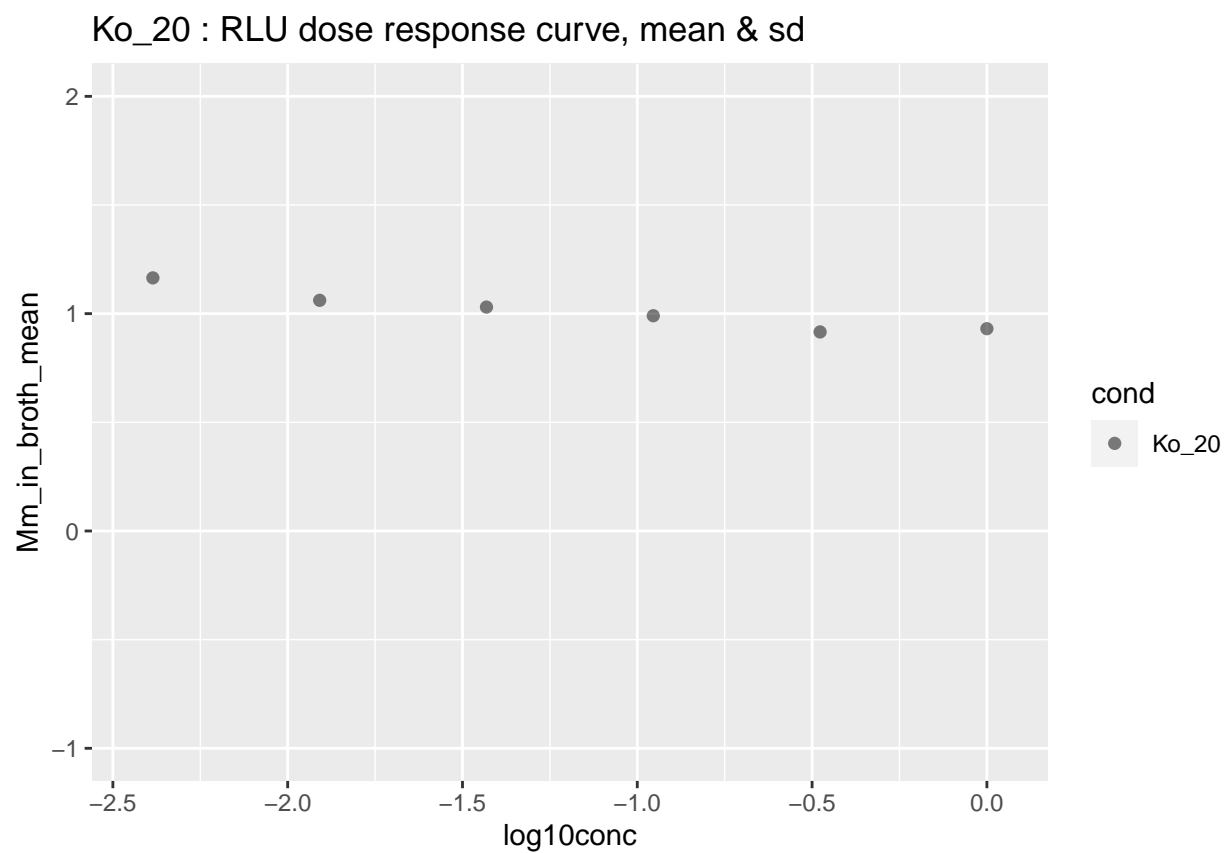
Ko_17 : RLU dose response curve, median & mad



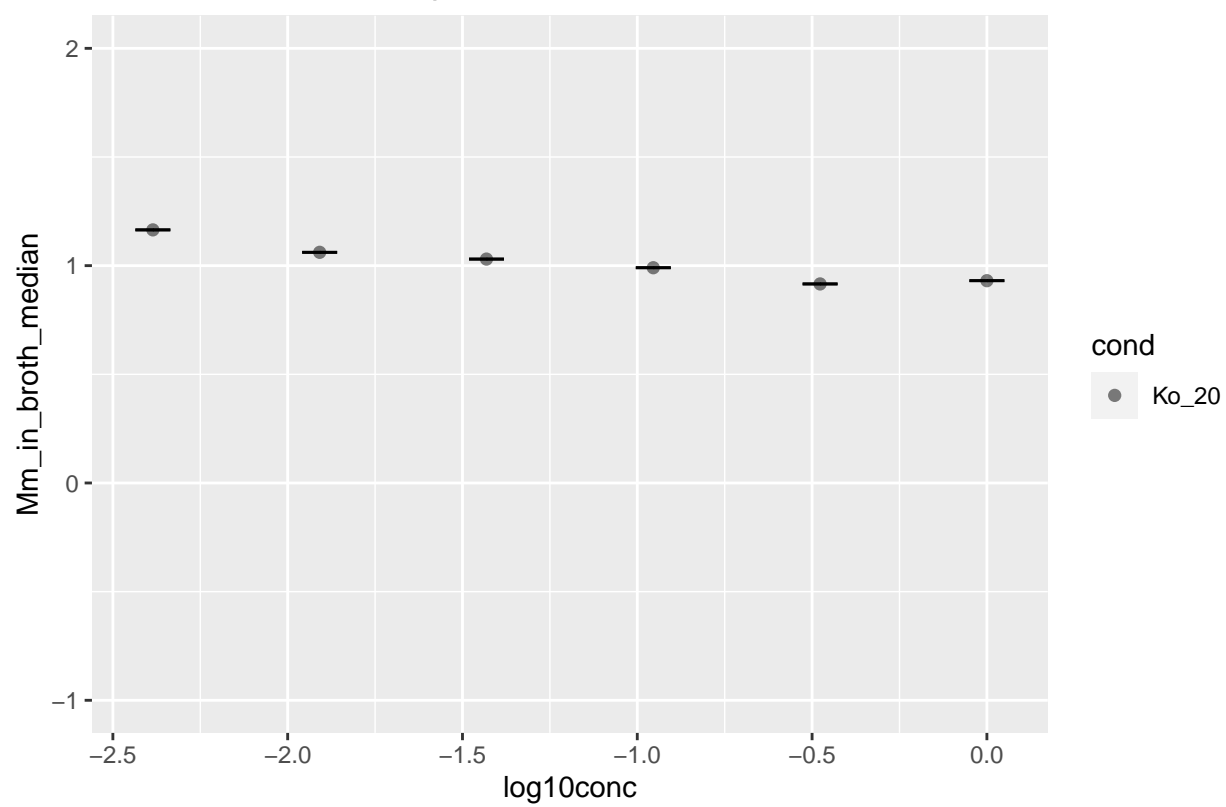


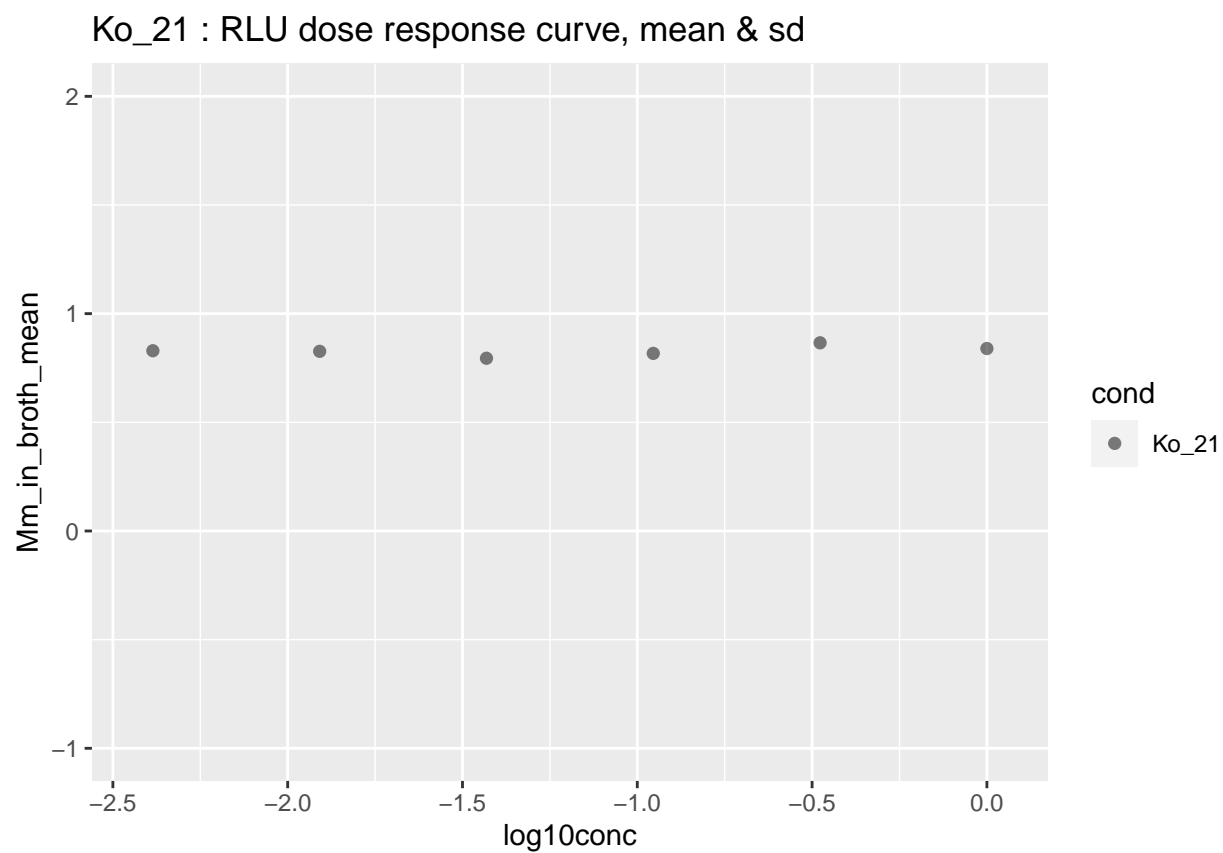
Ko_18 : RLU dose response curve, median & mad



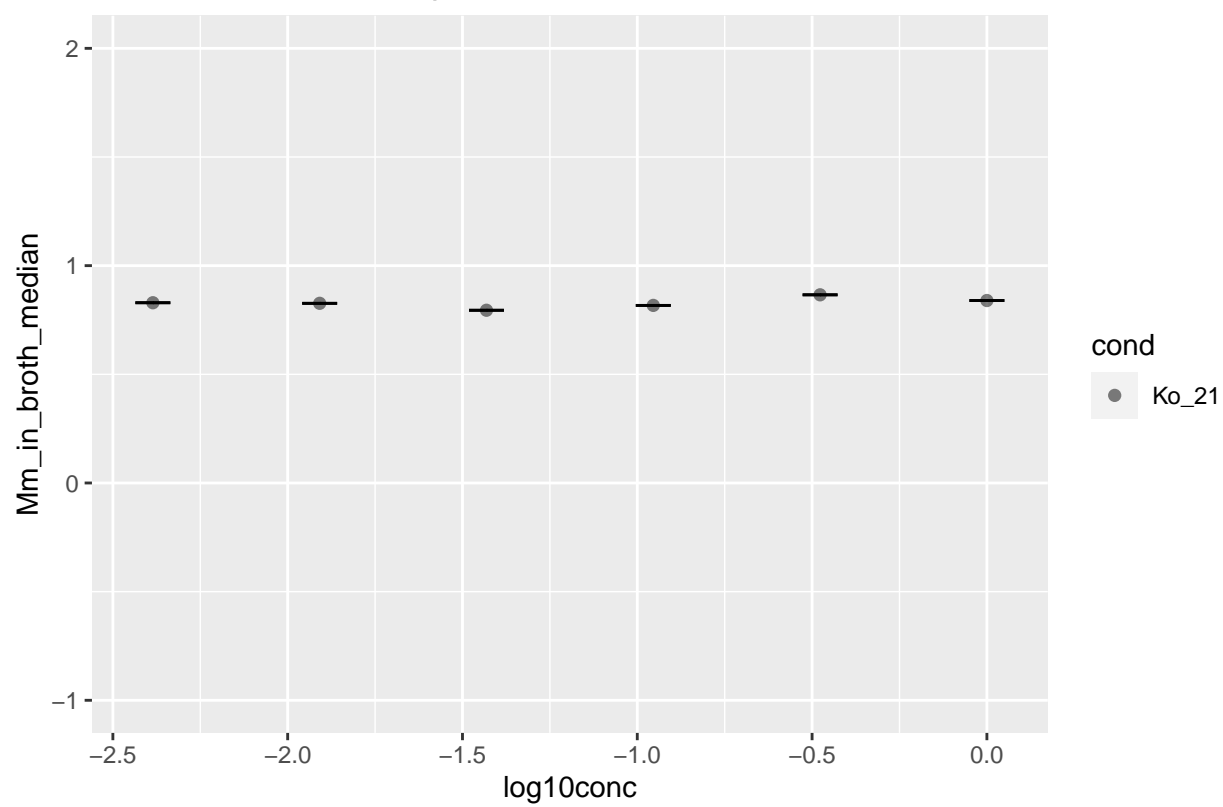


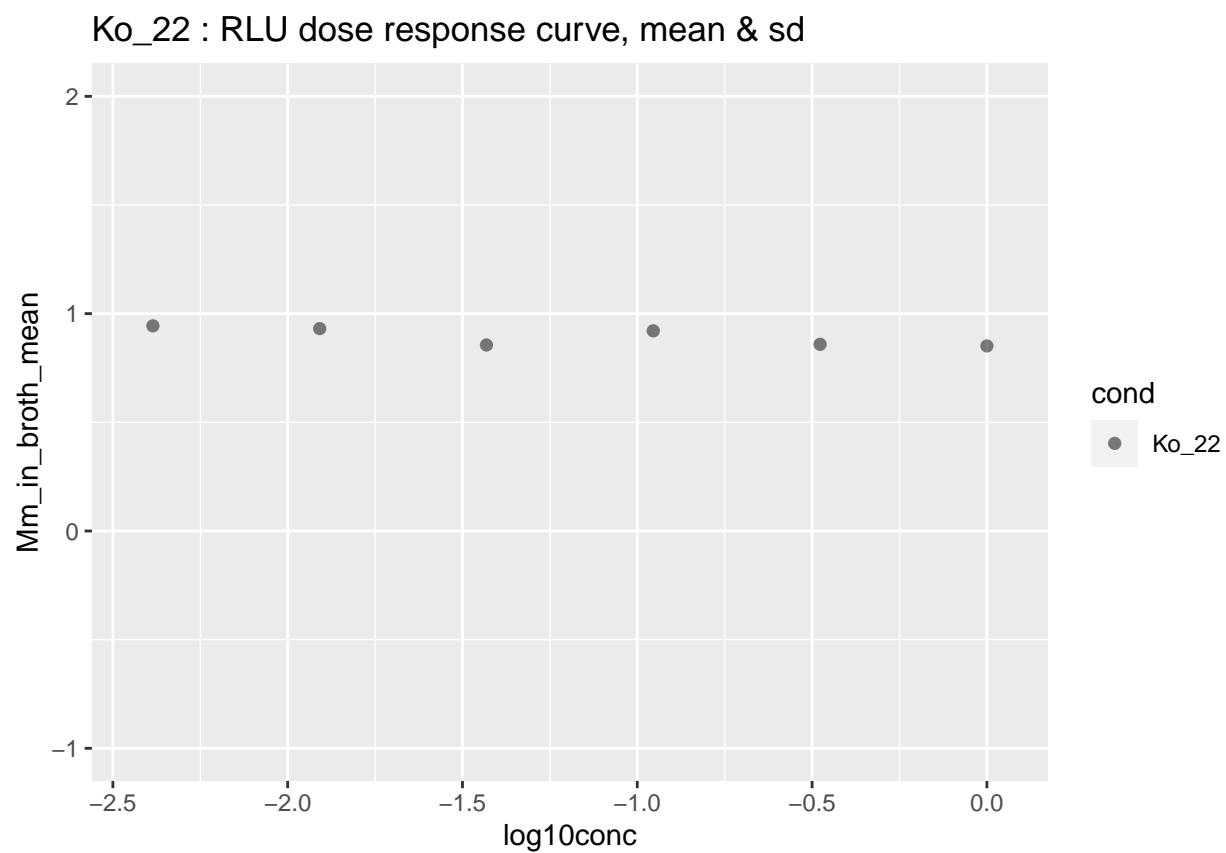
Ko_20 : RLU dose response curve, median & mad



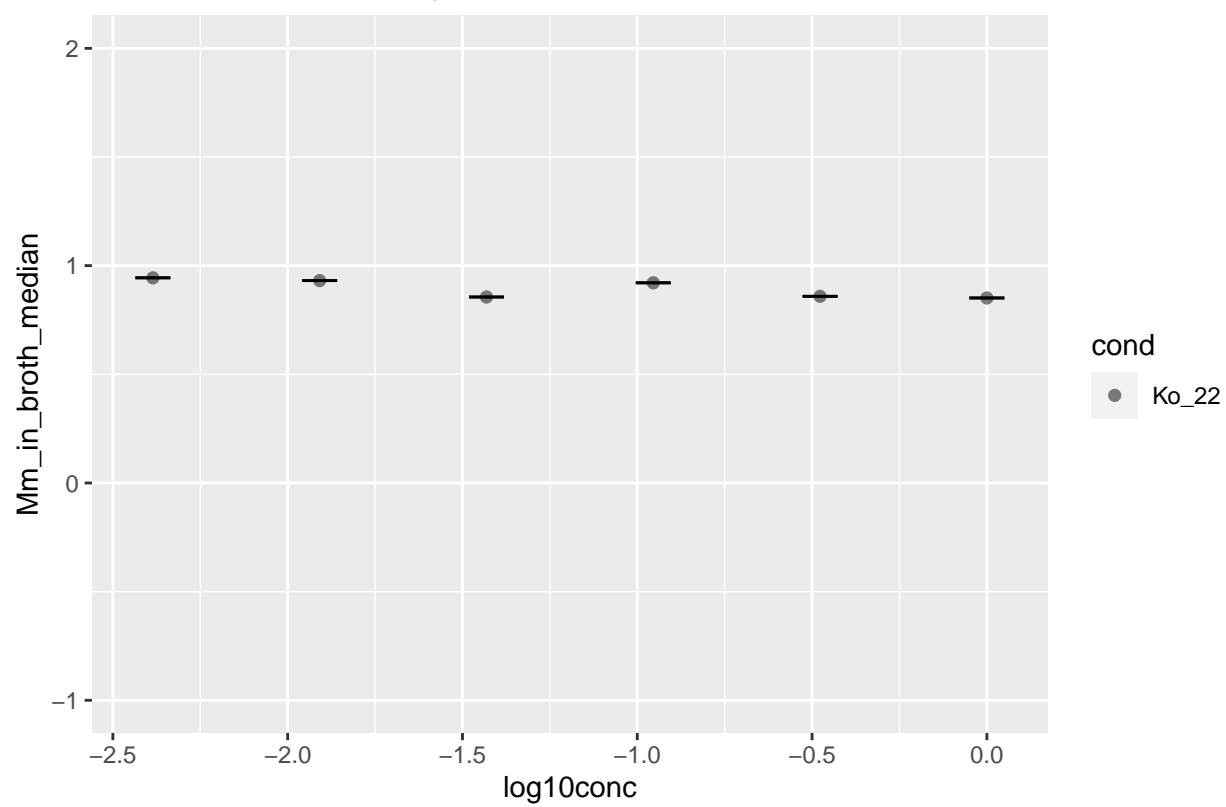


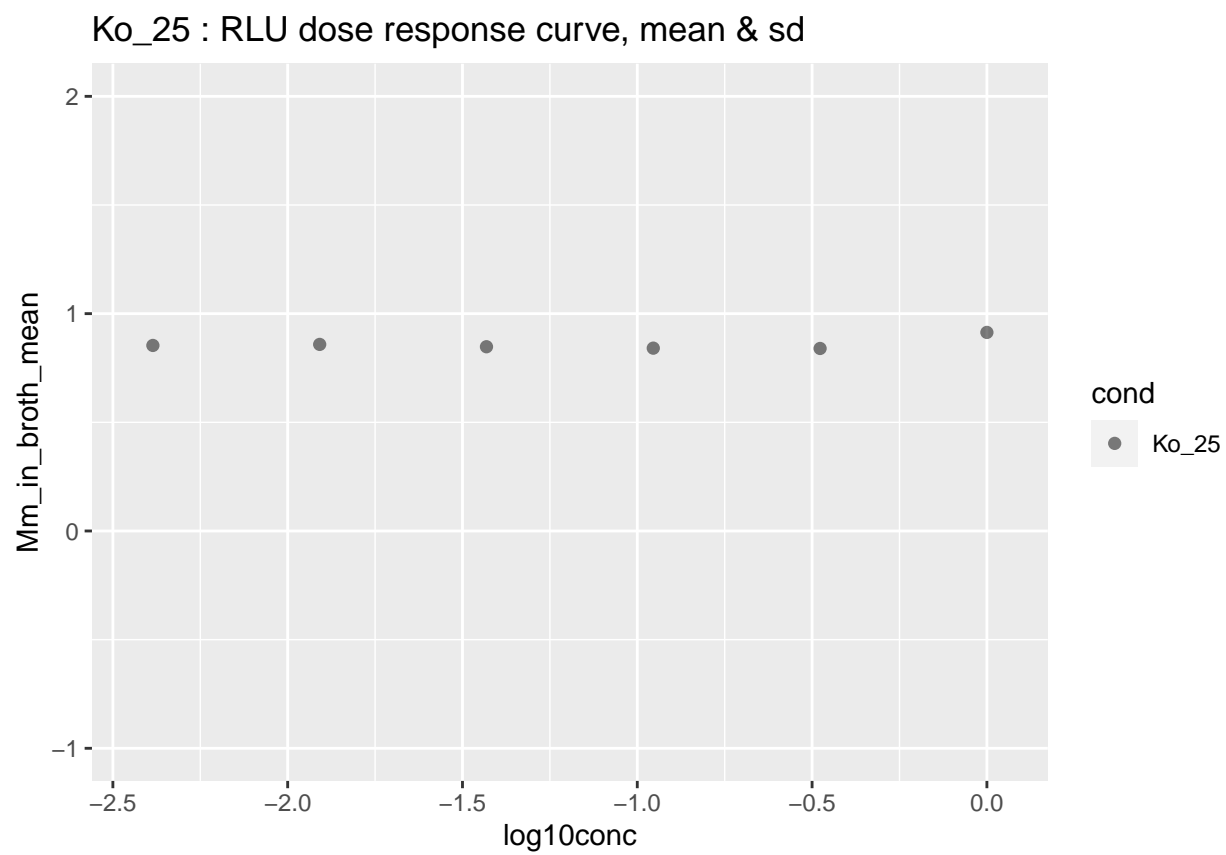
Ko_21 : RLU dose response curve, median & mad



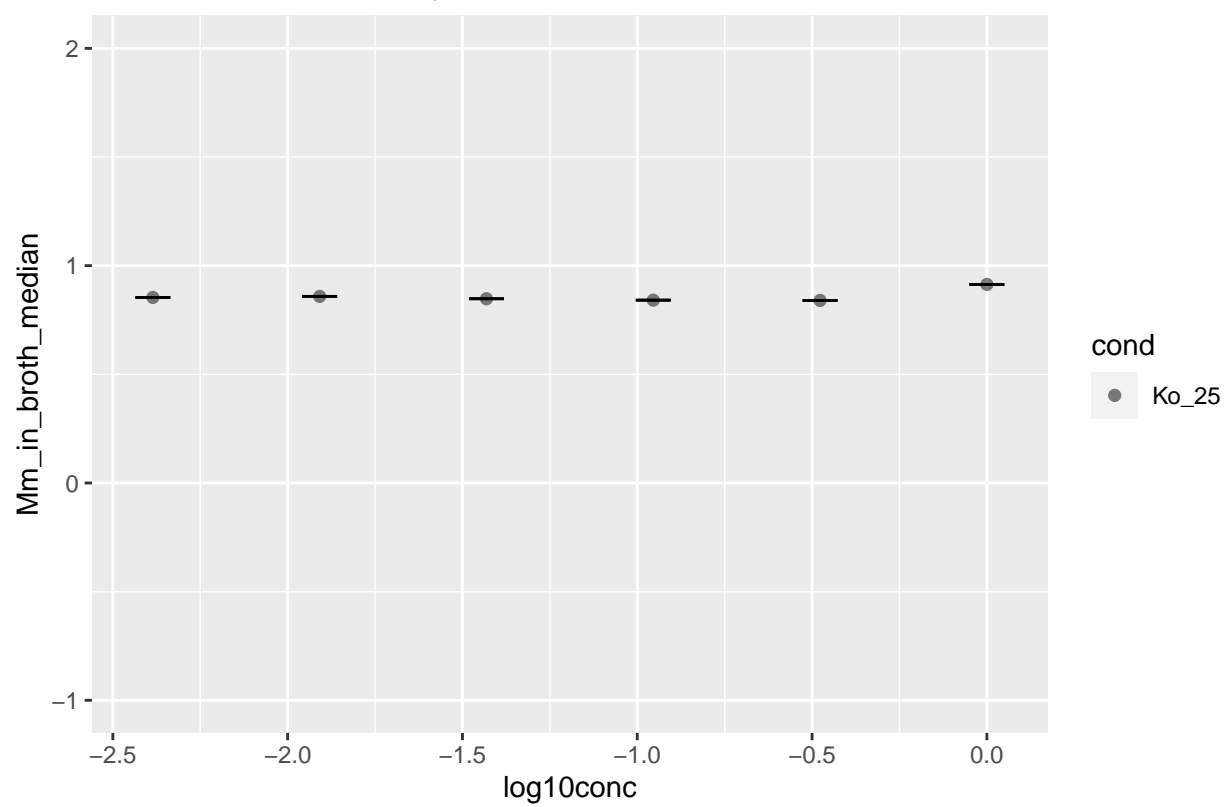


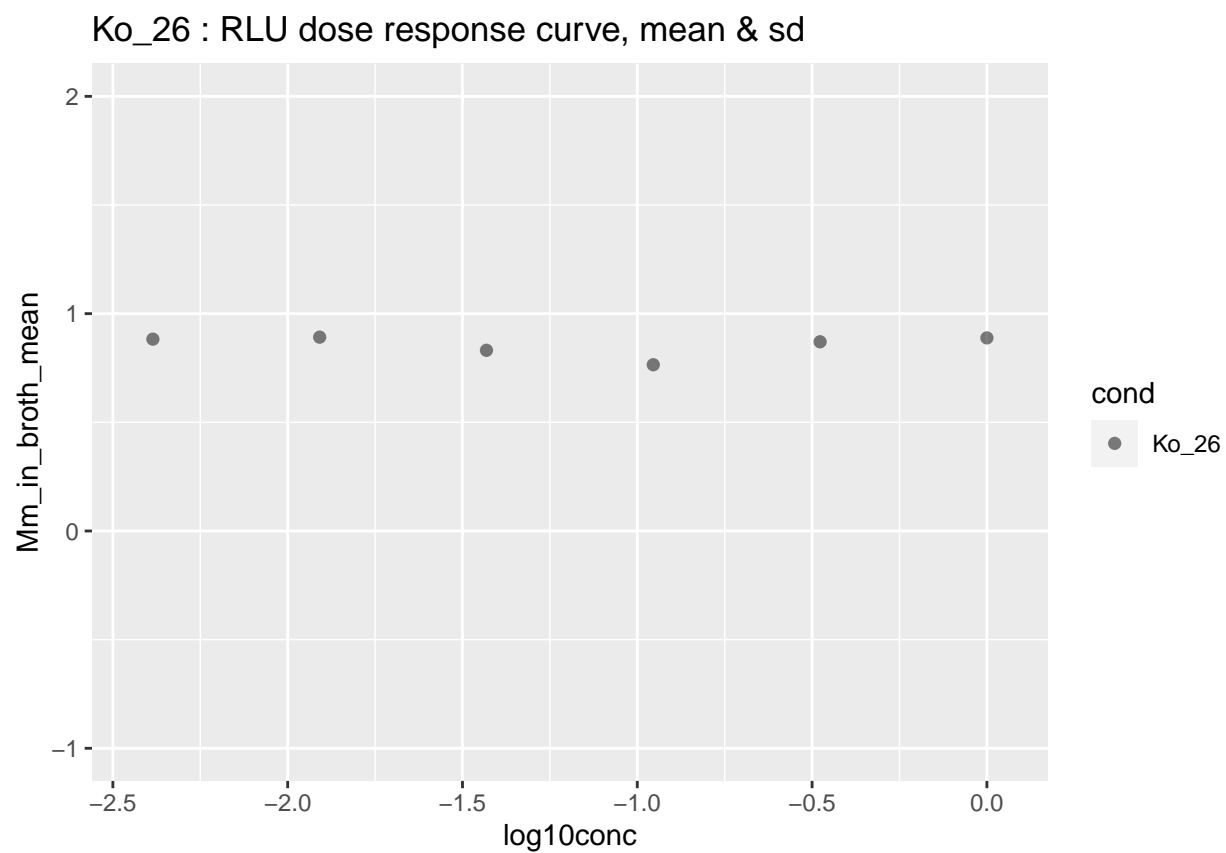
Ko_22 : RLU dose response curve, median & mad



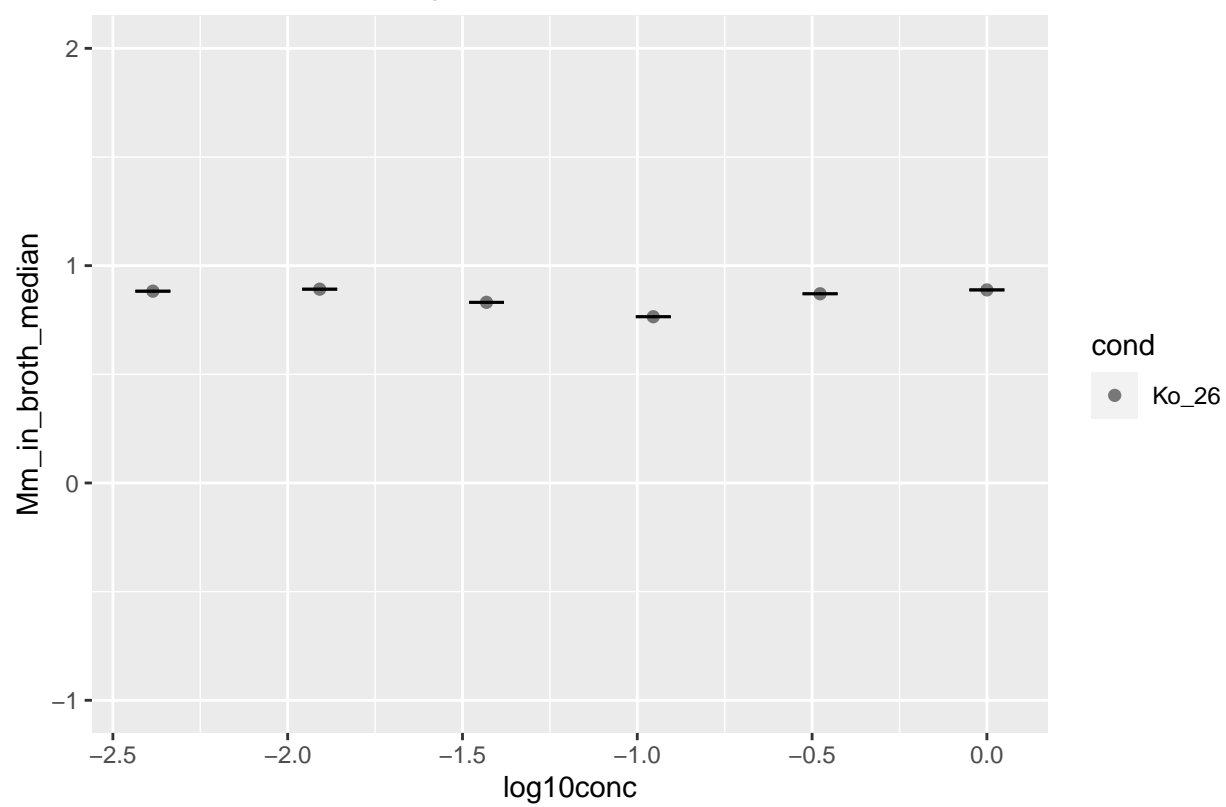


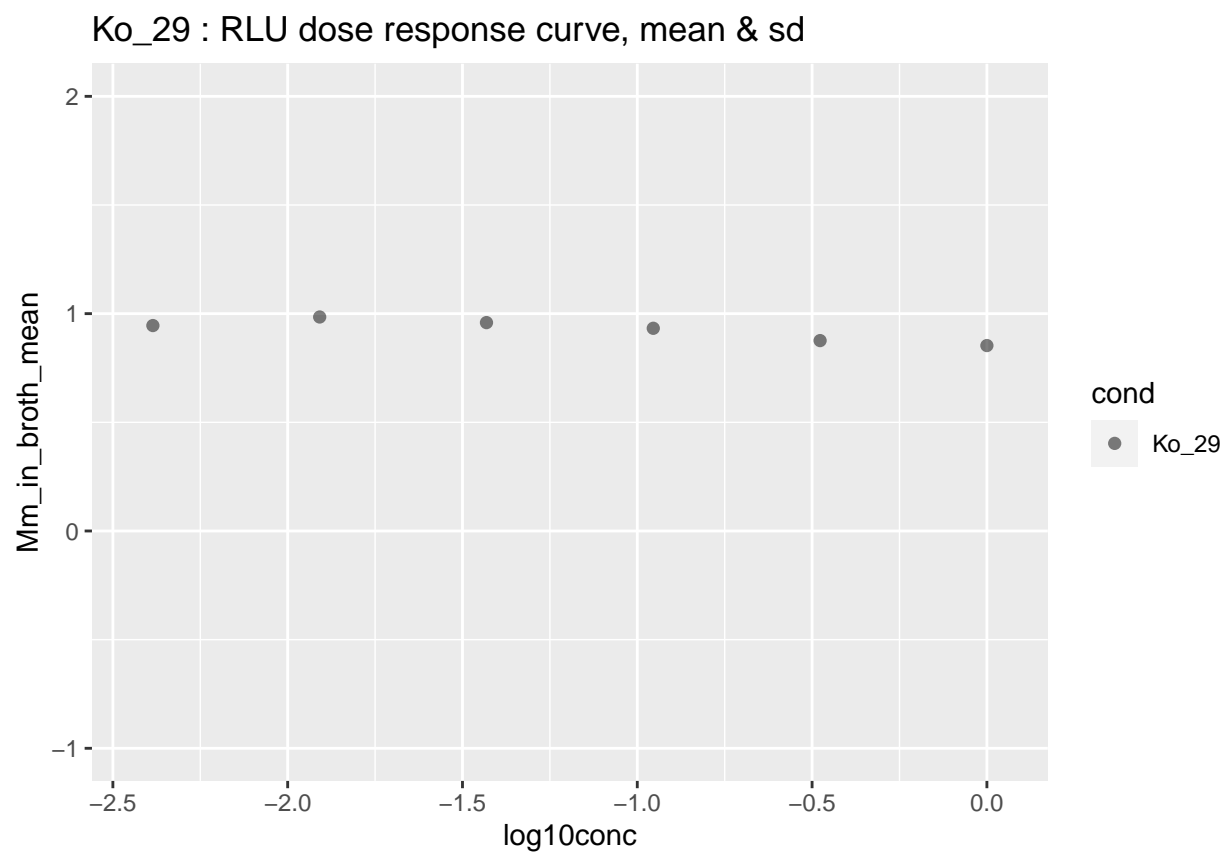
Ko_25 : RLU dose response curve, median & mad



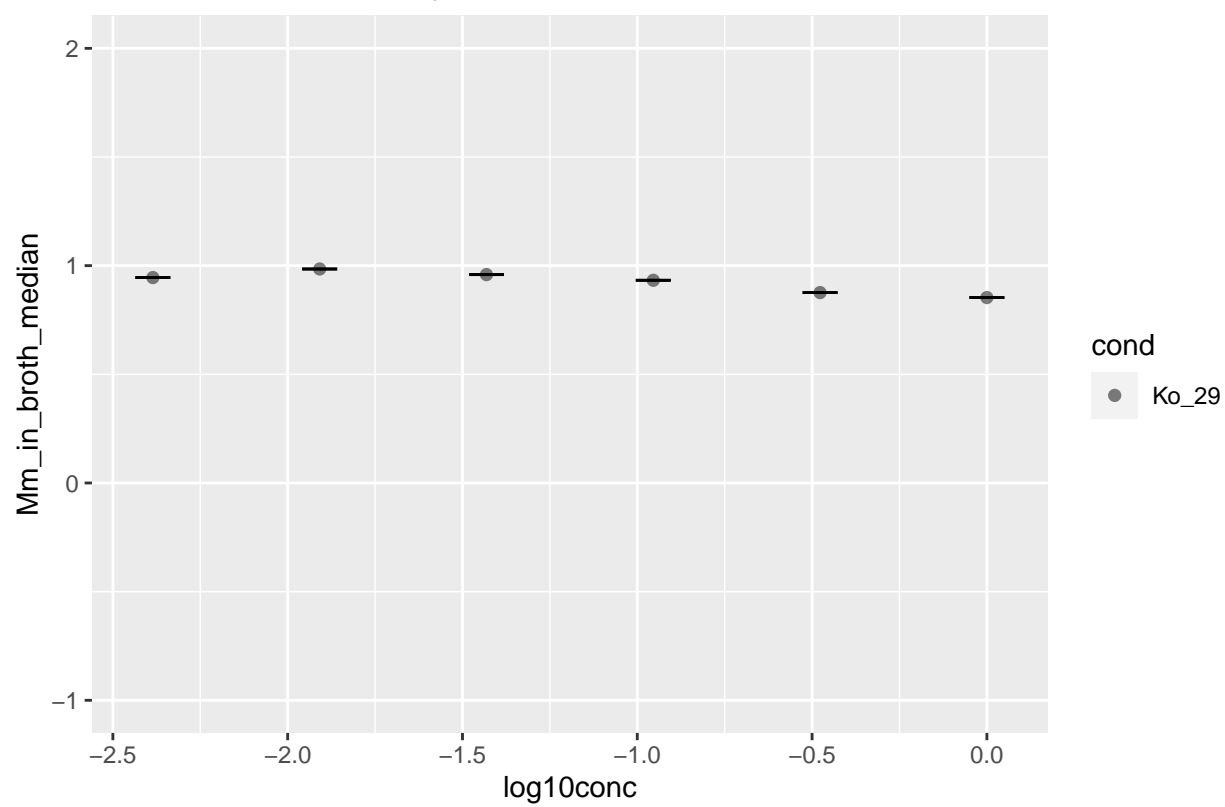


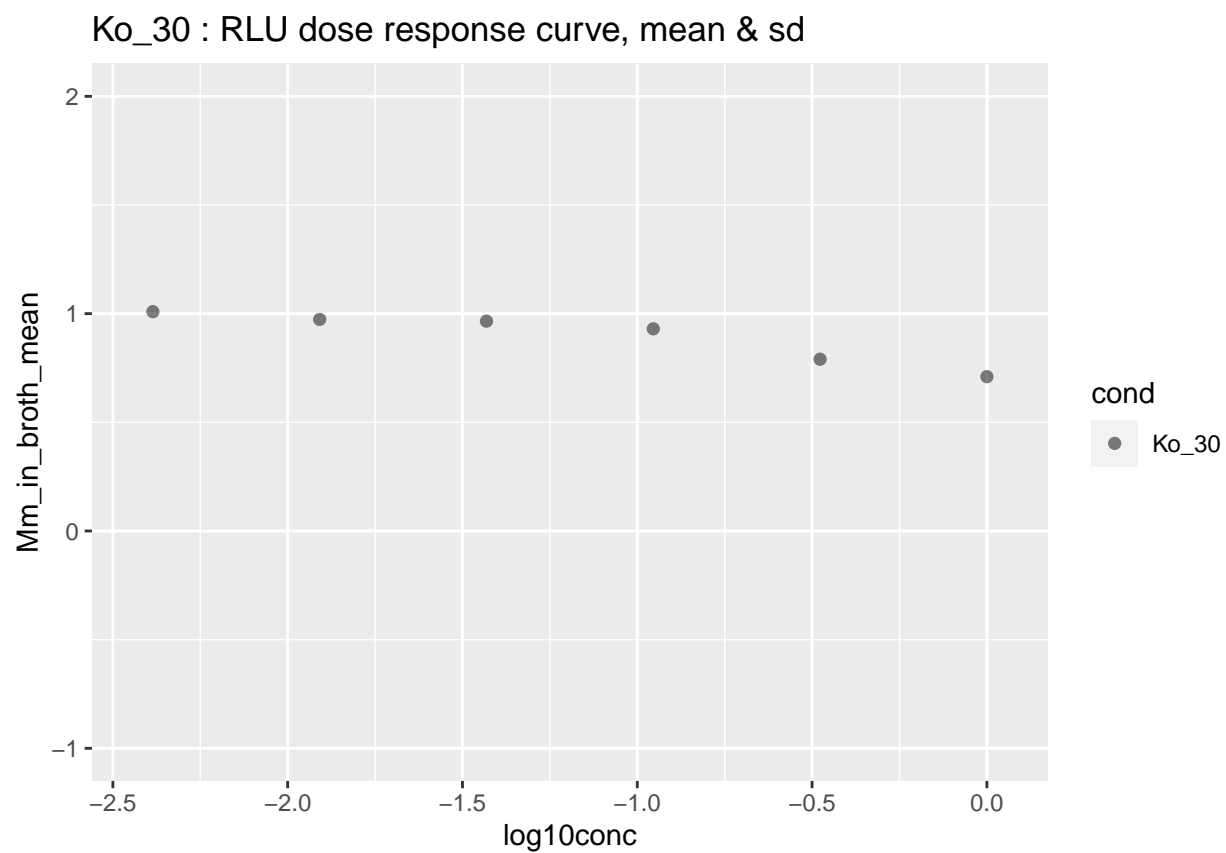
Ko_26 : RLU dose response curve, median & mad

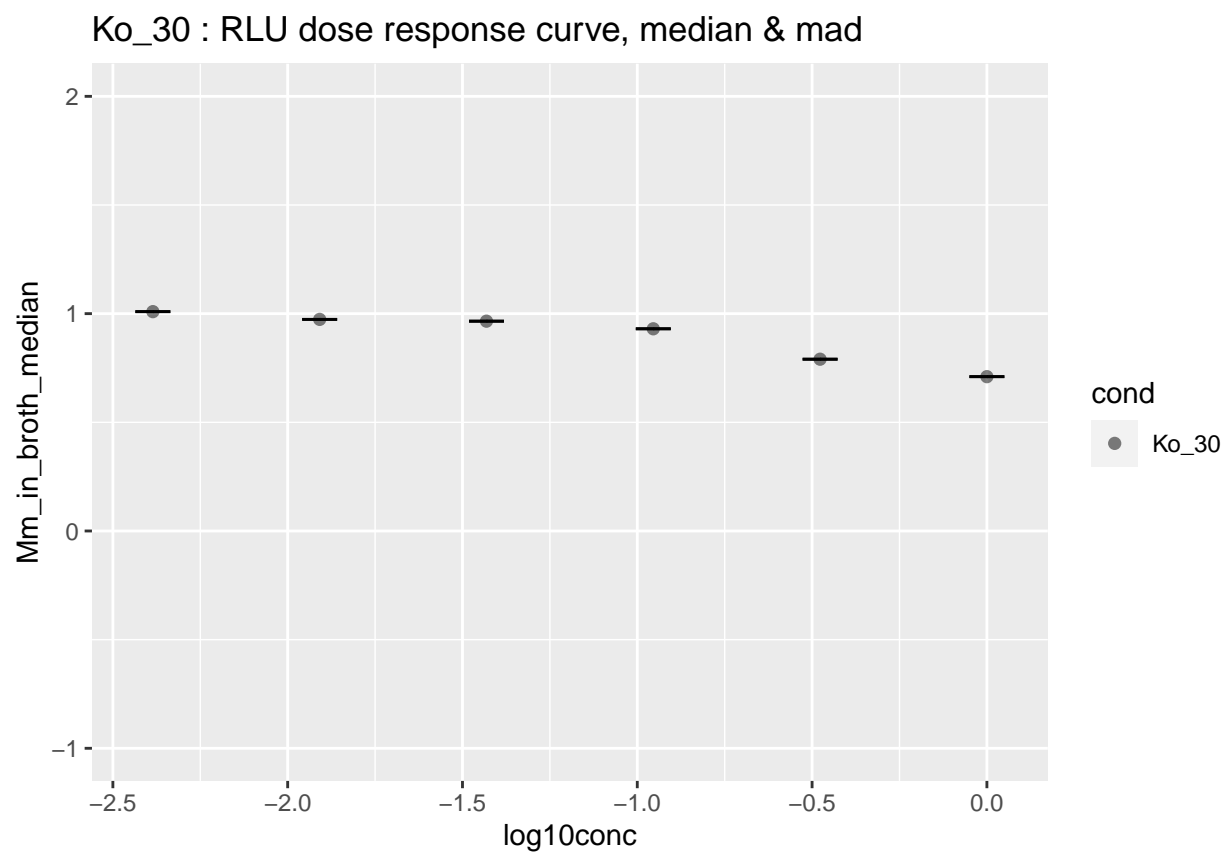


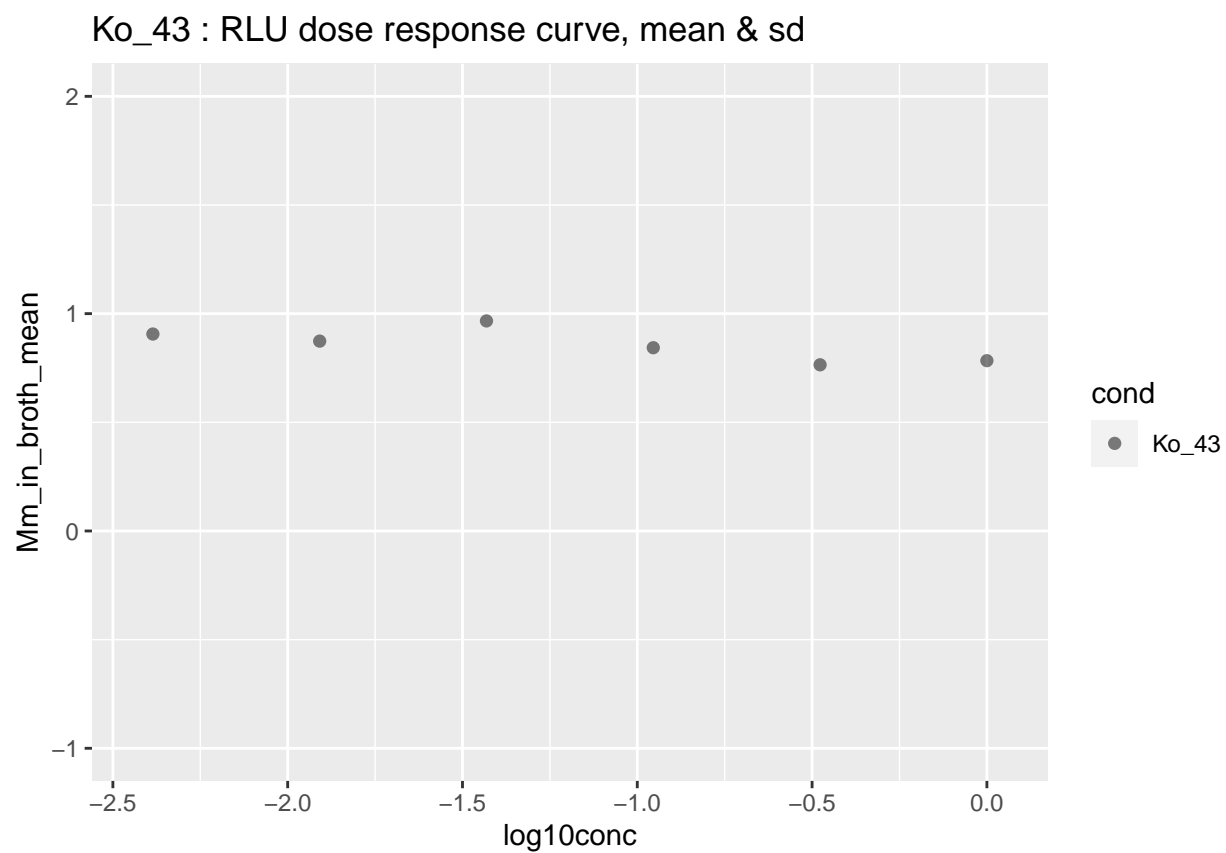


Ko_29 : RLU dose response curve, median & mad

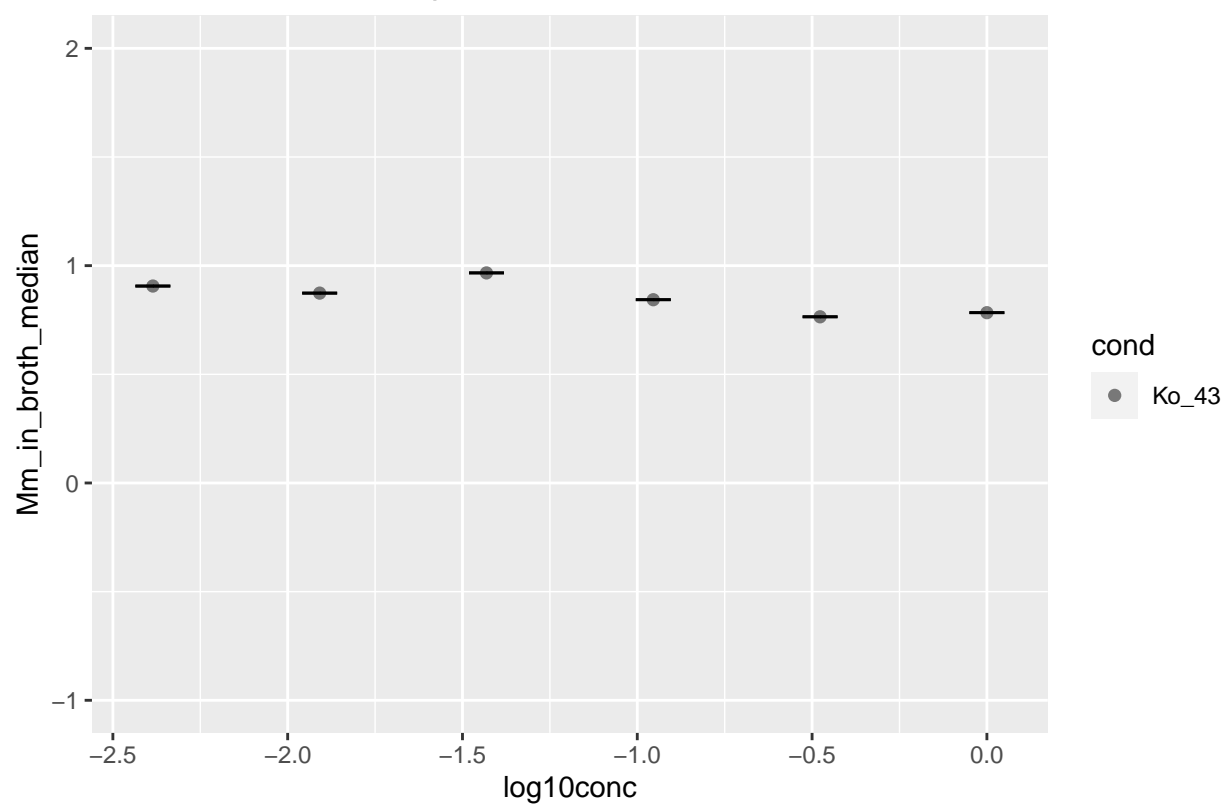


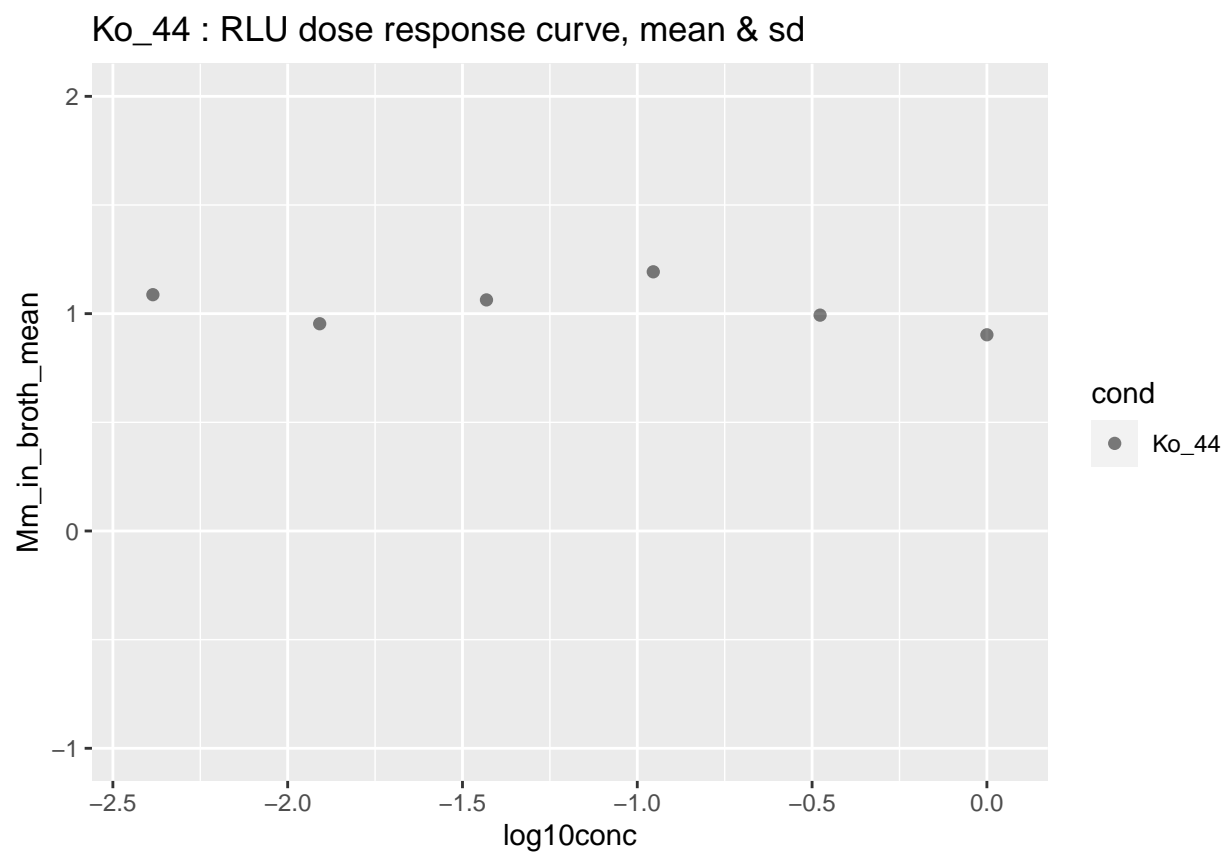


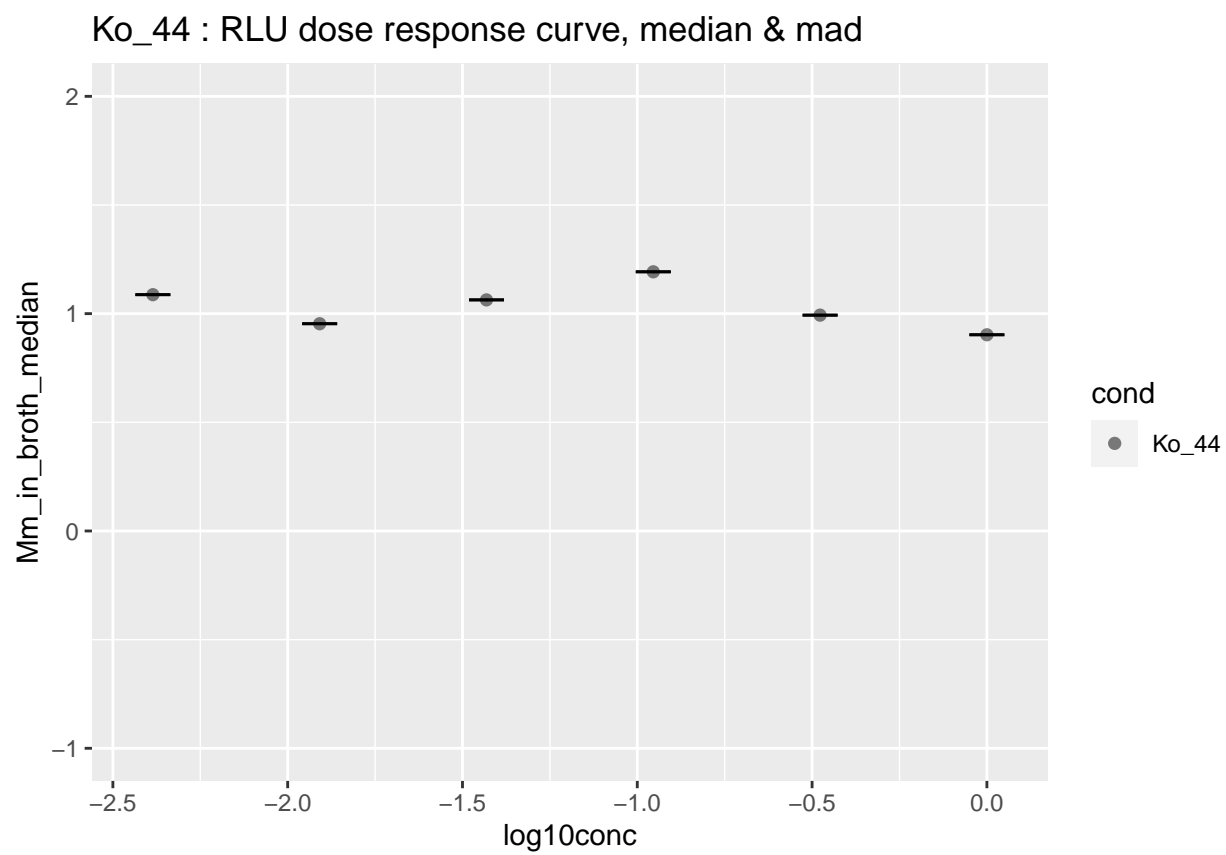


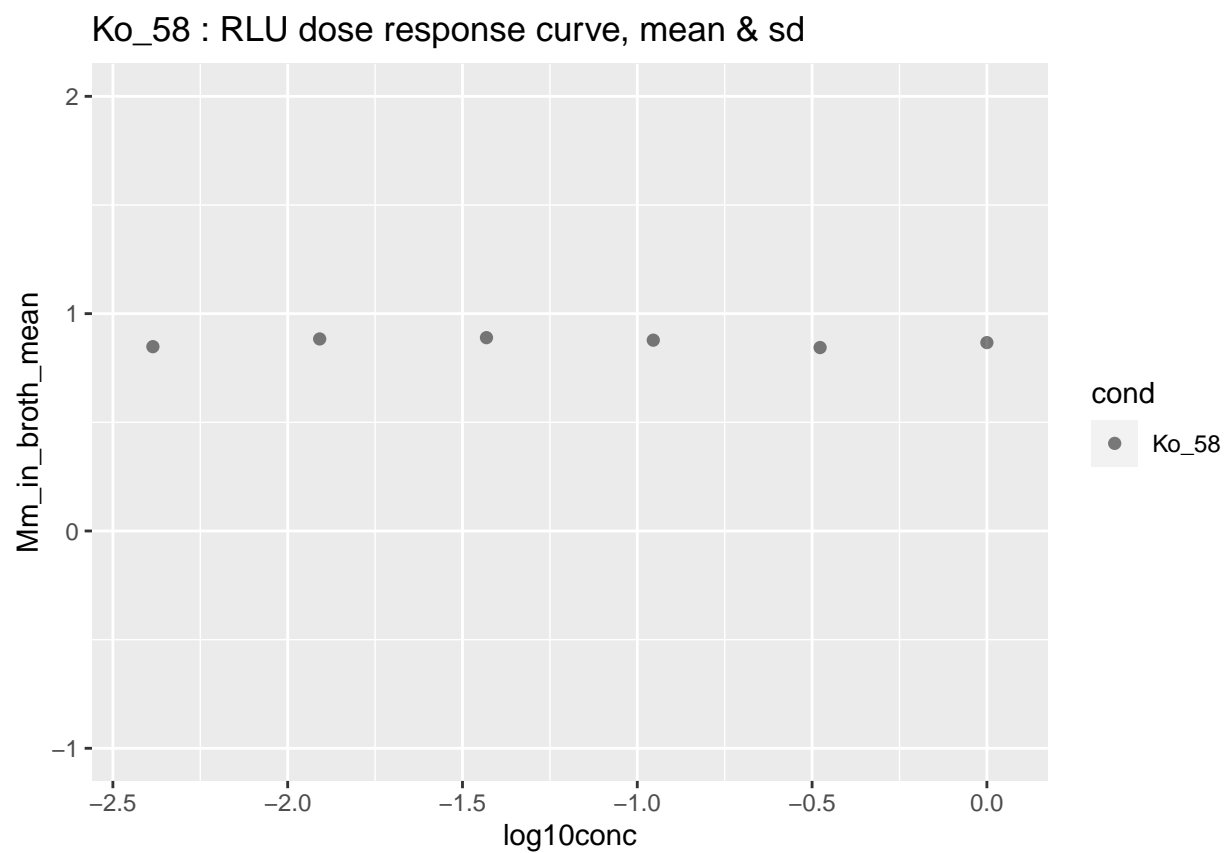


Ko_43 : RLU dose response curve, median & mad

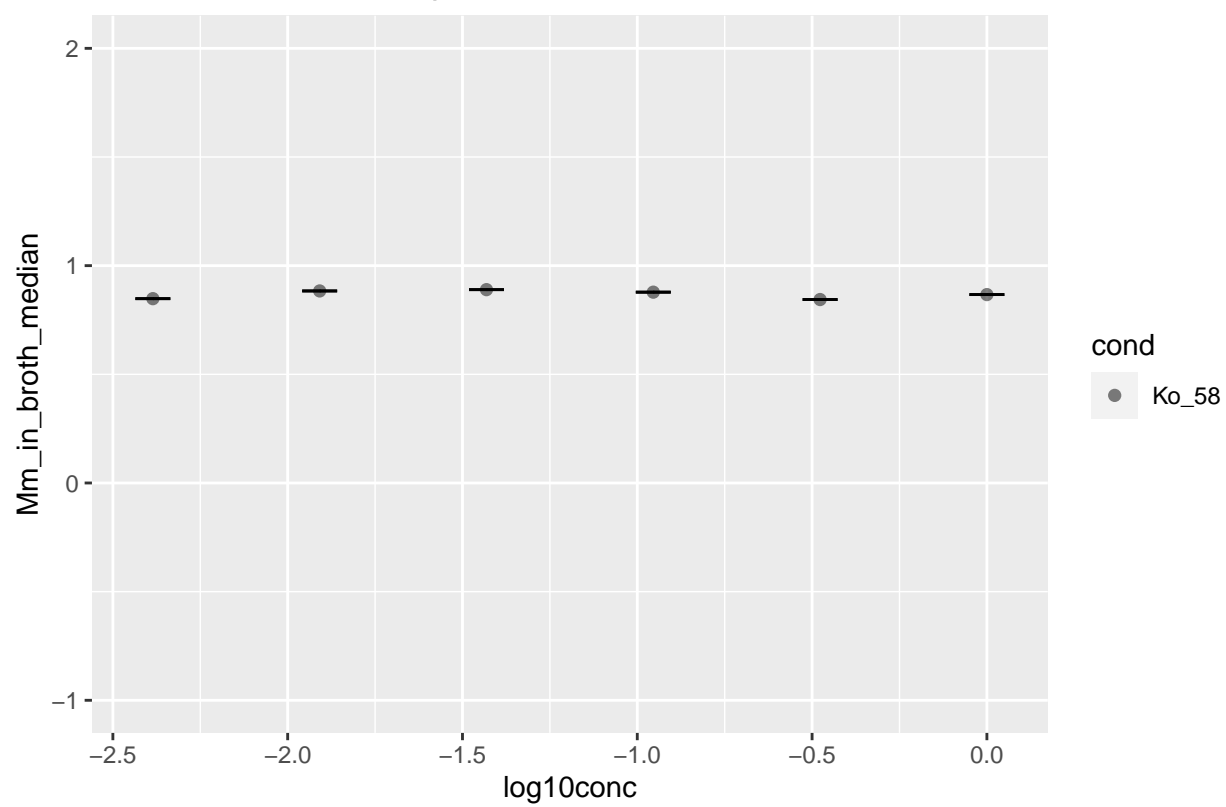


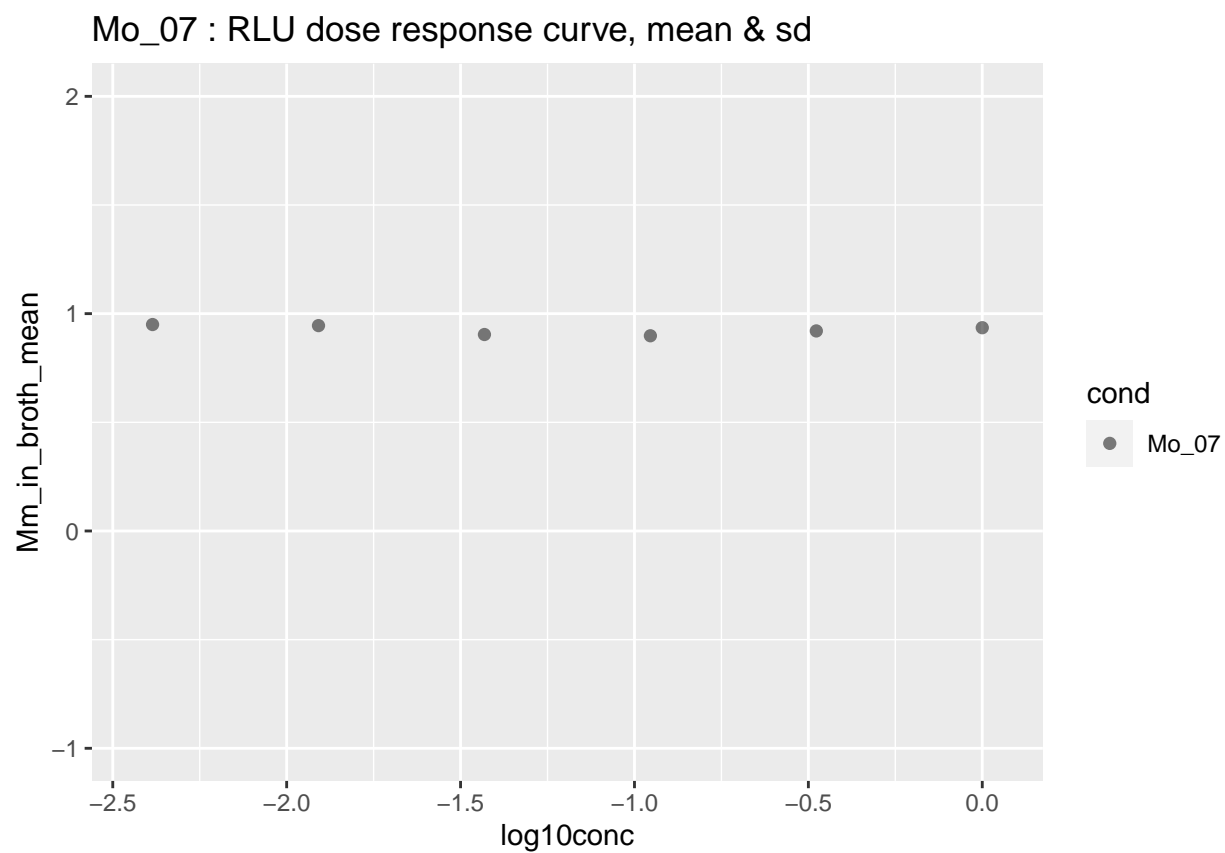


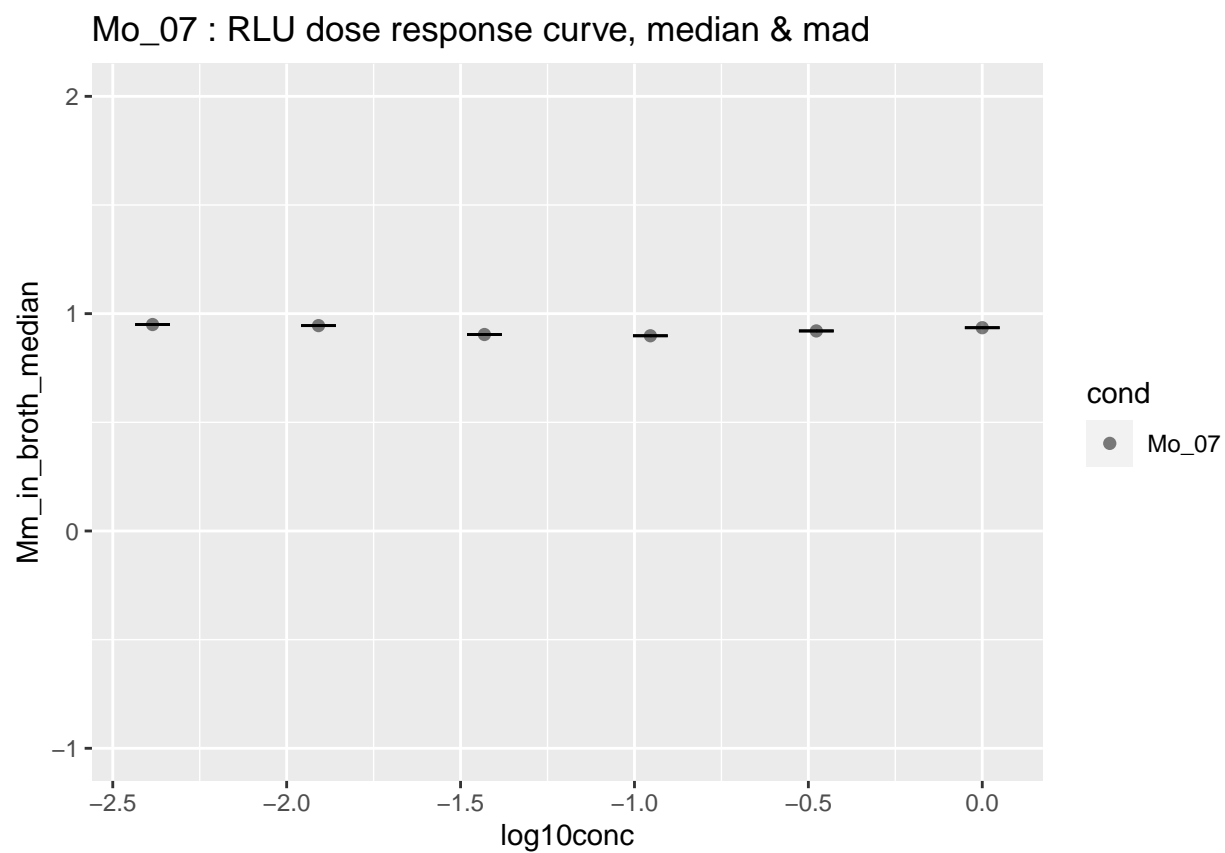


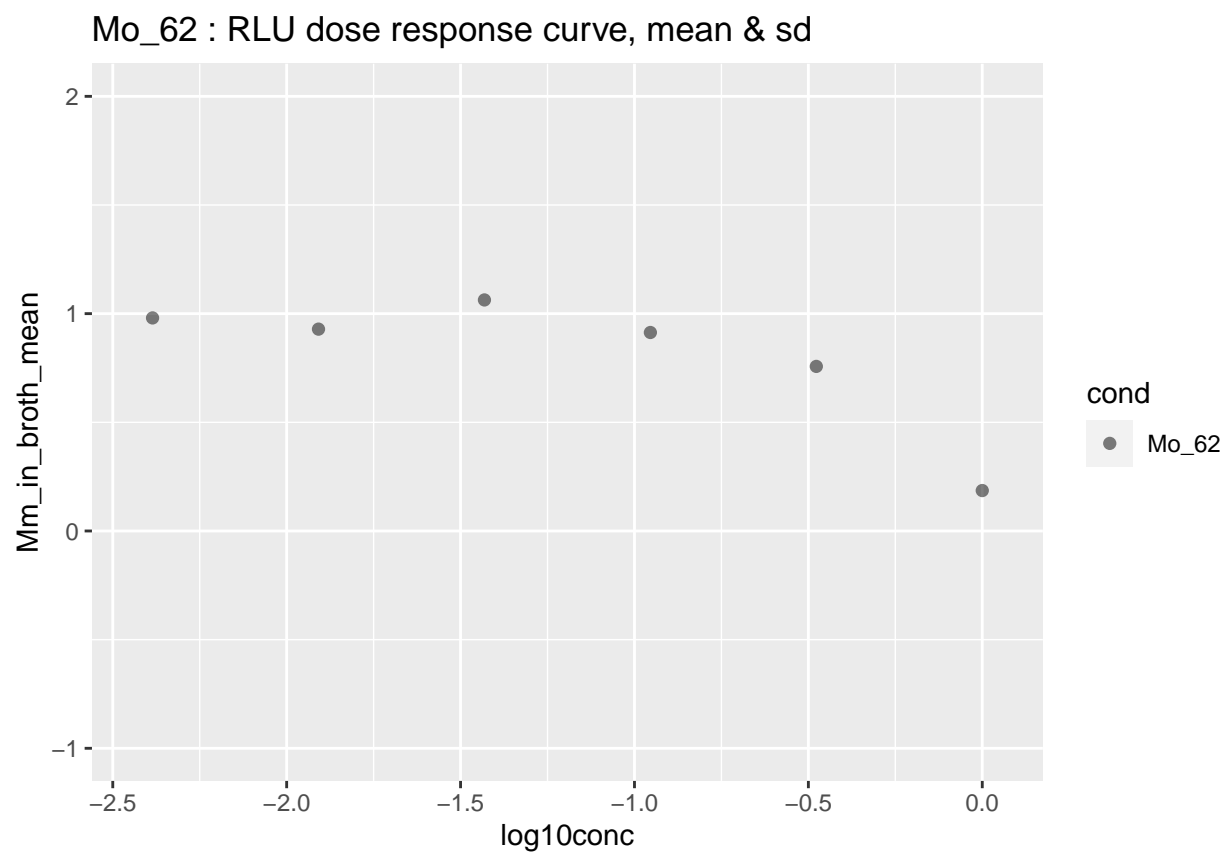


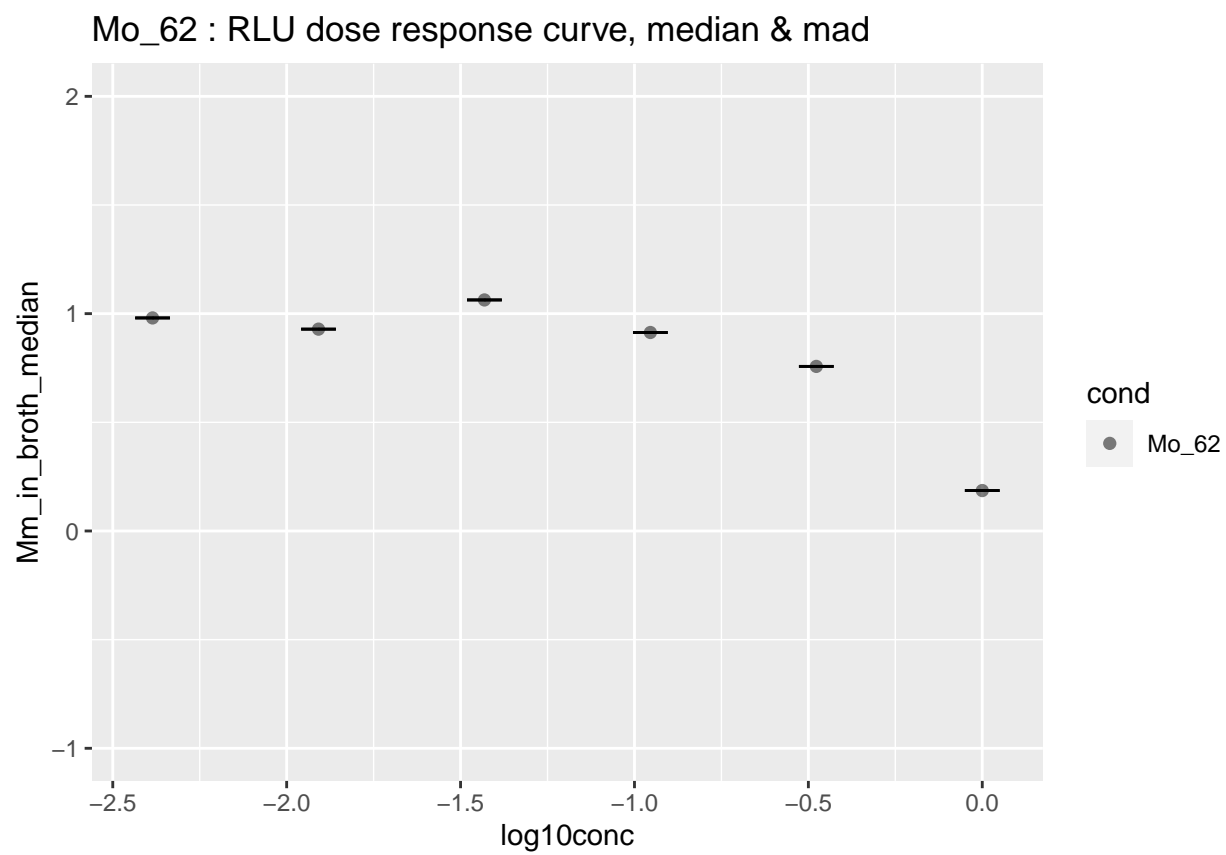
Ko_58 : RLU dose response curve, median & mad

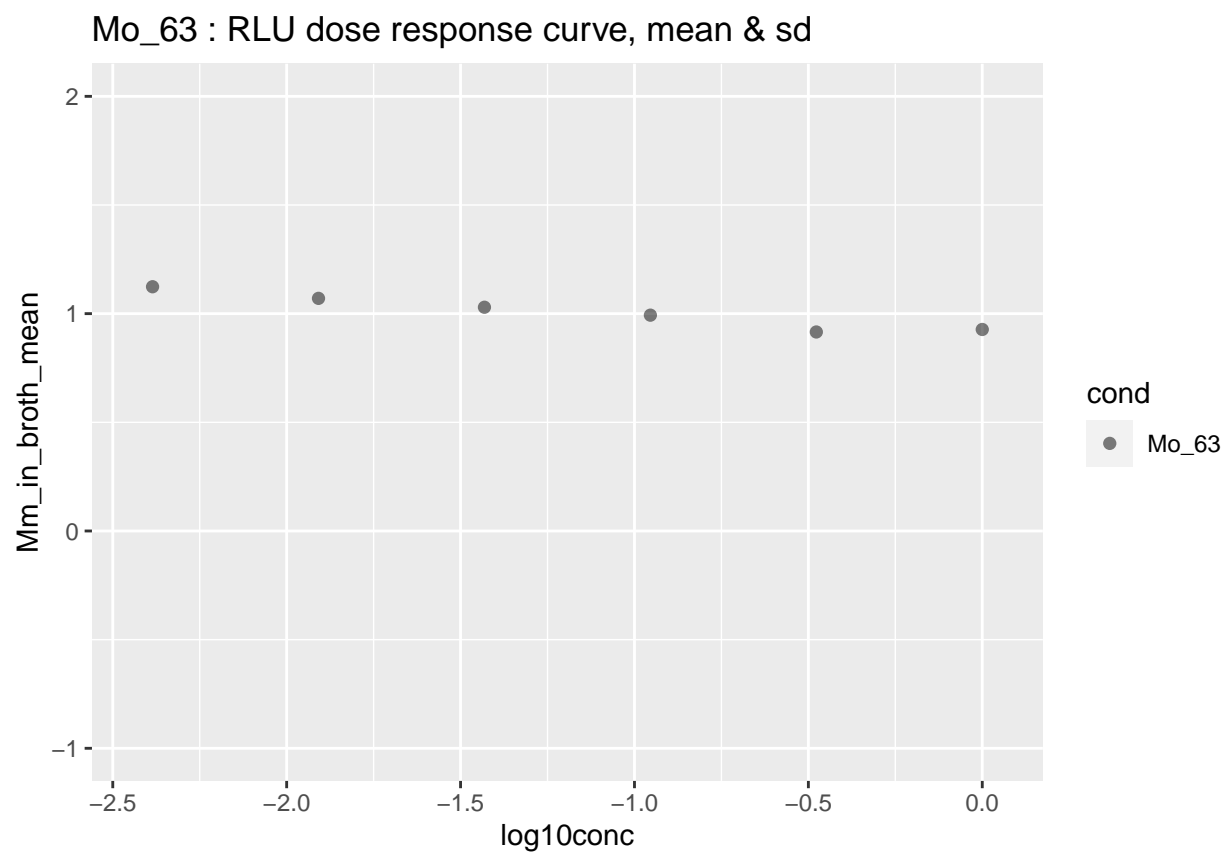


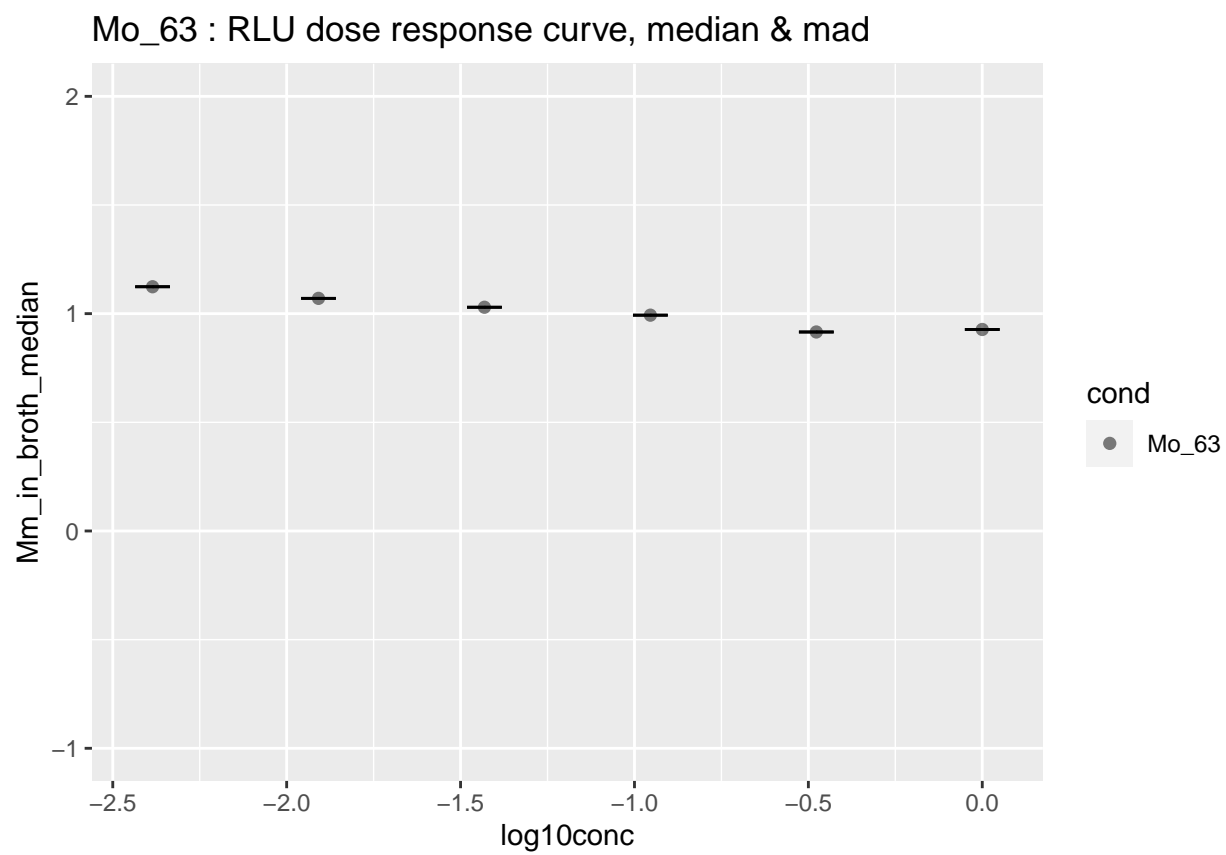


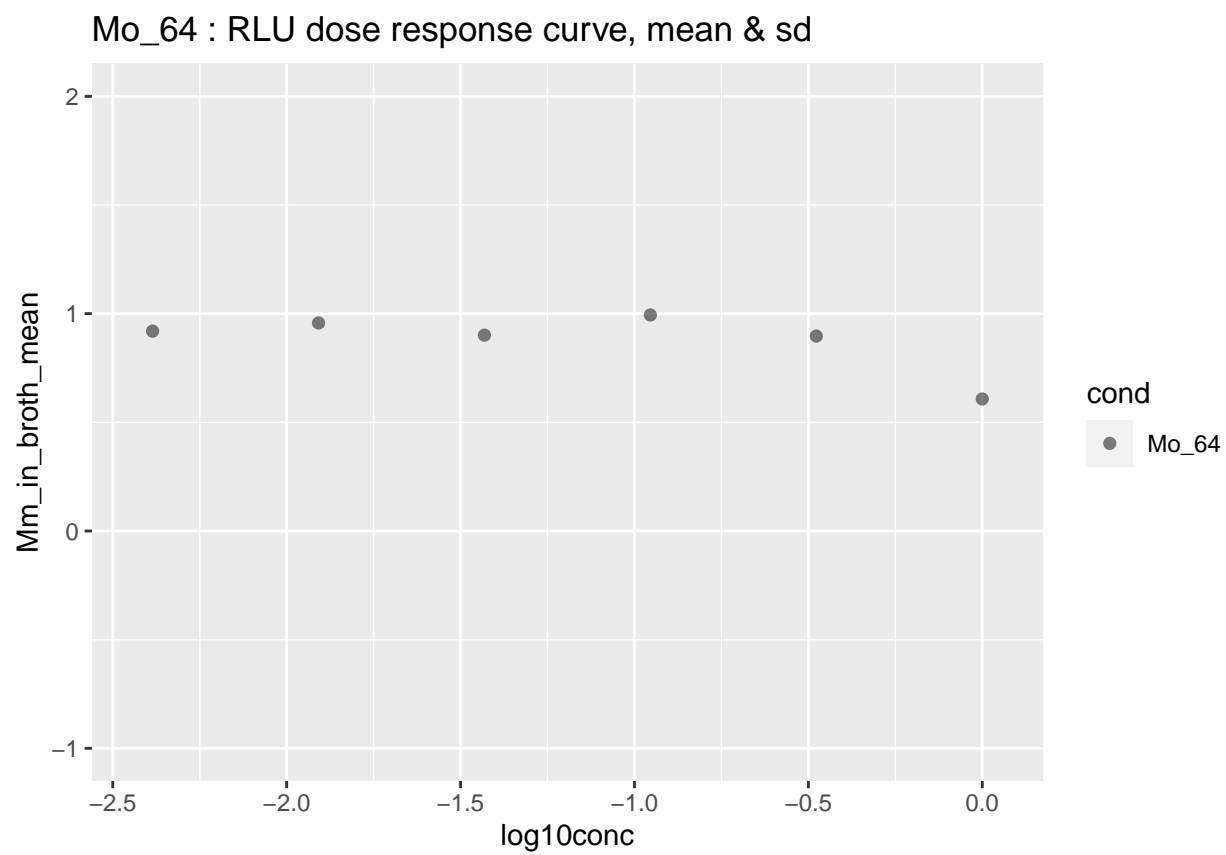




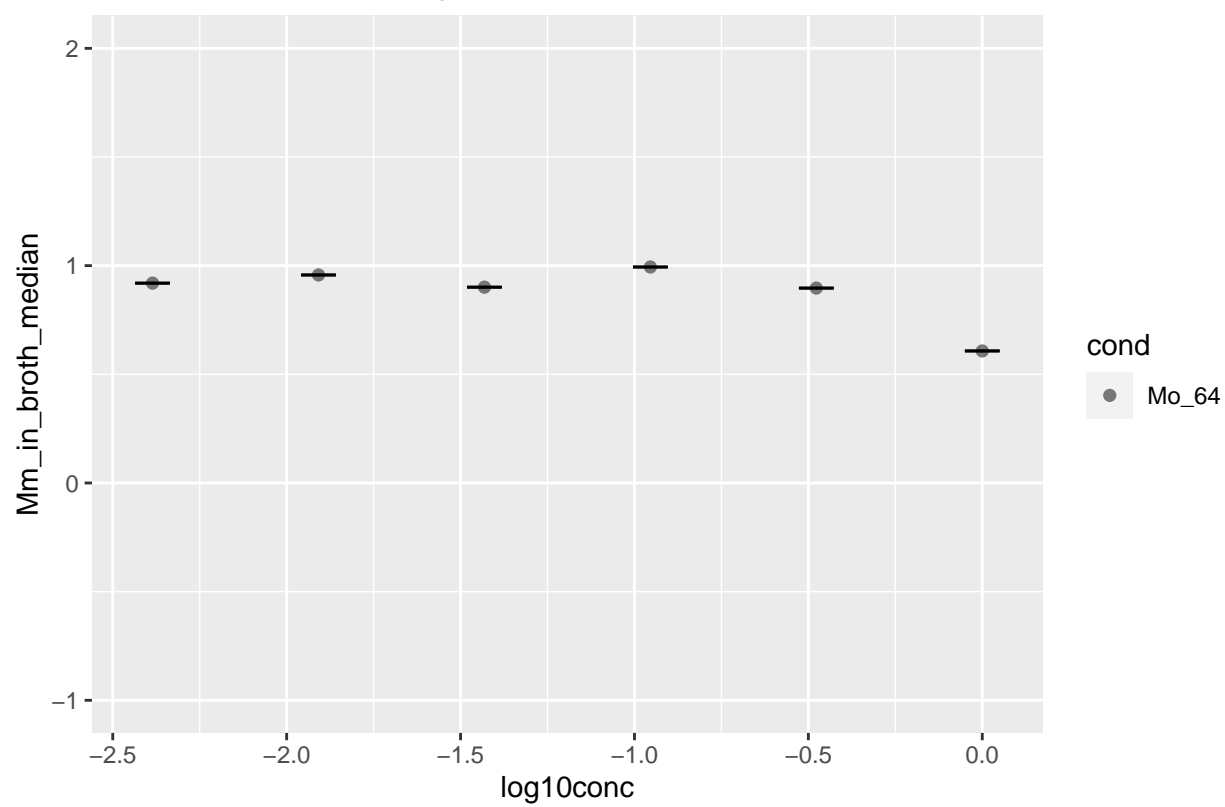


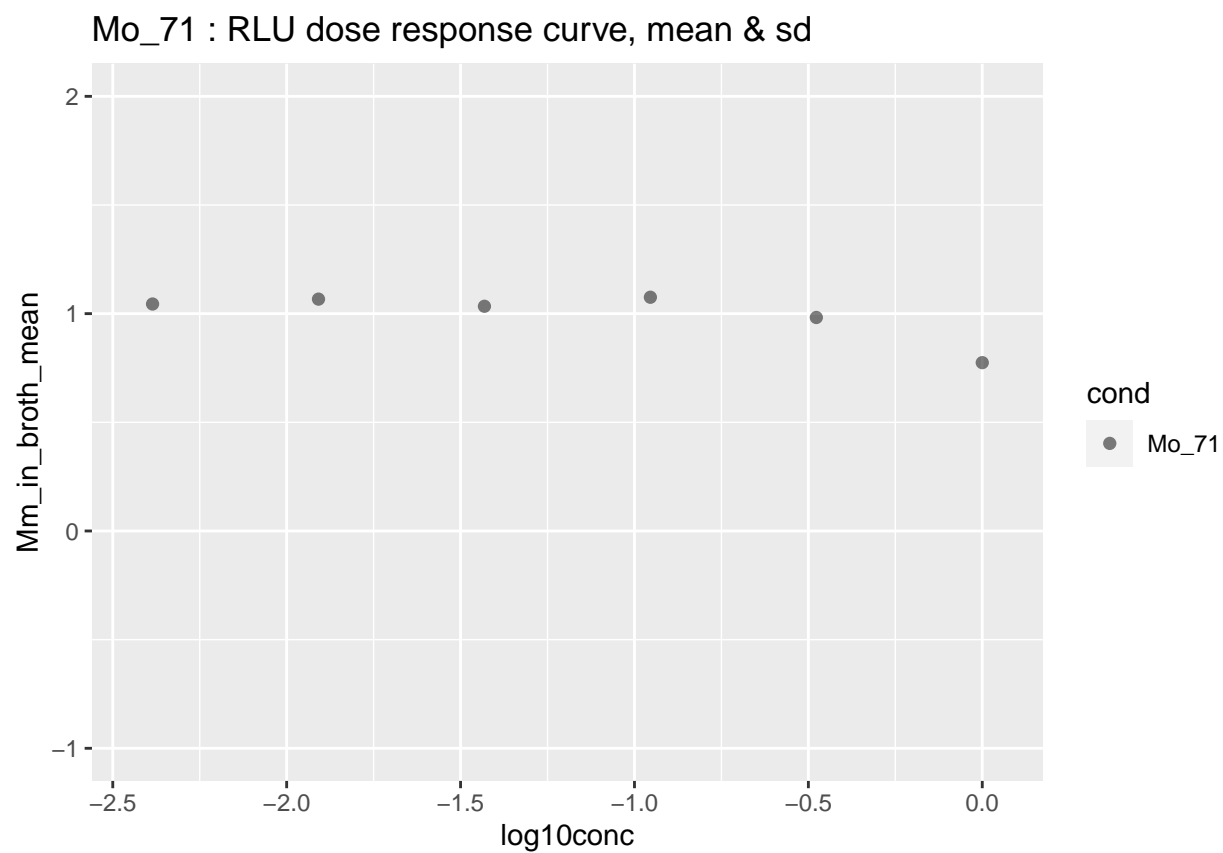


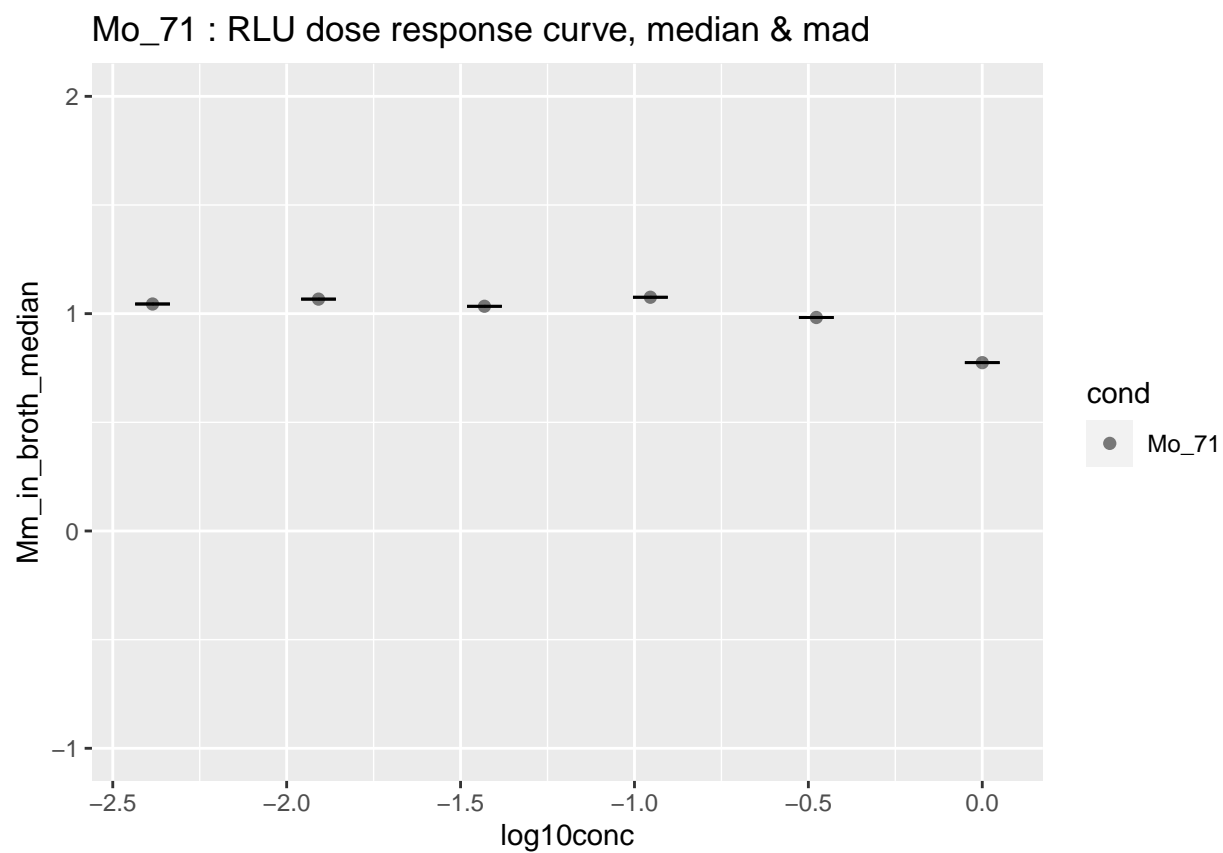


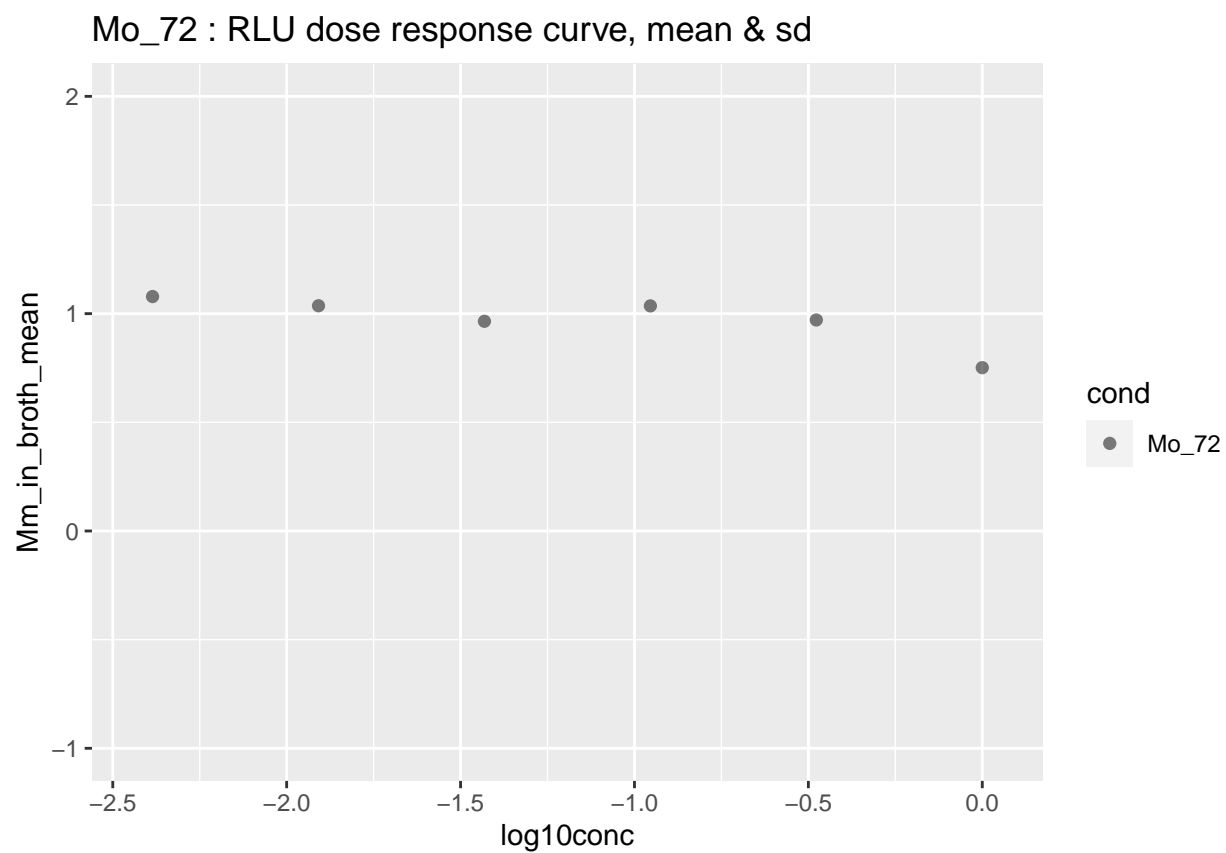


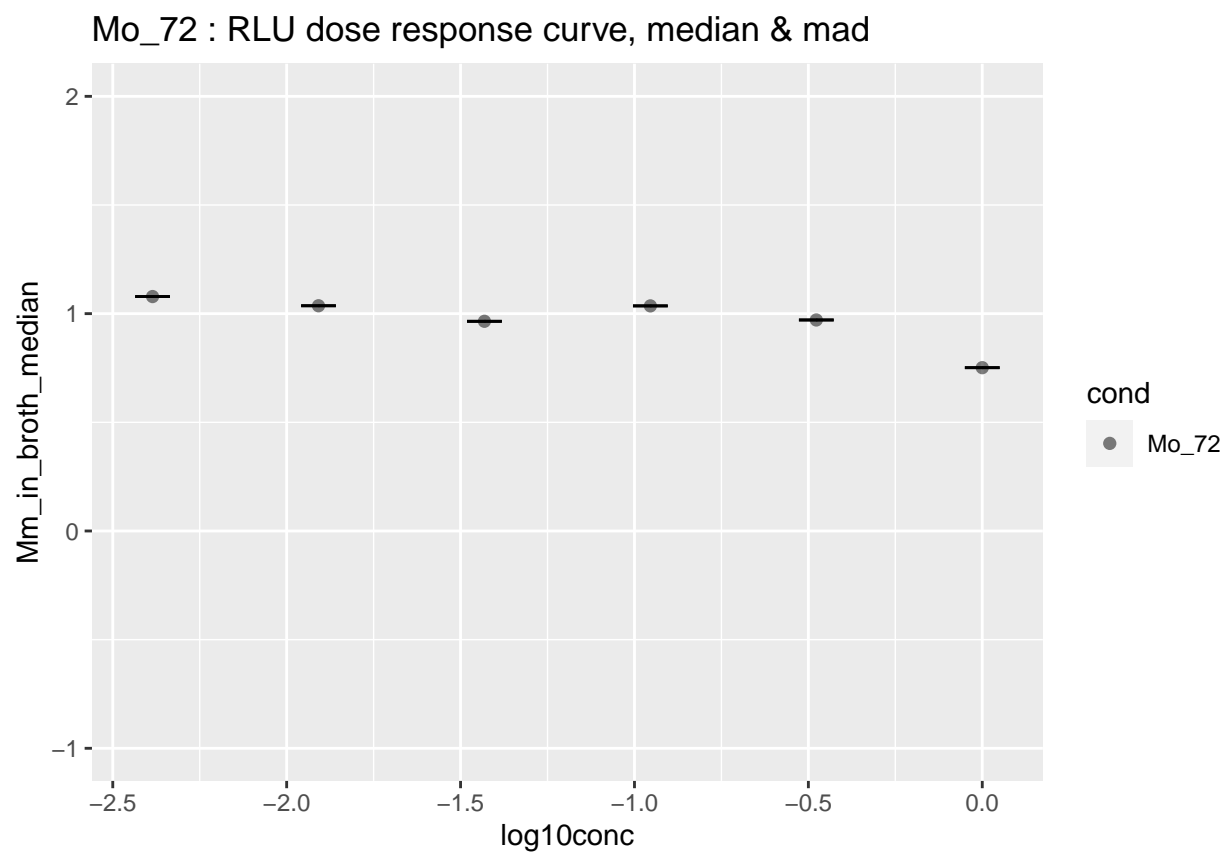
Mo_64 : RLU dose response curve, median & mad

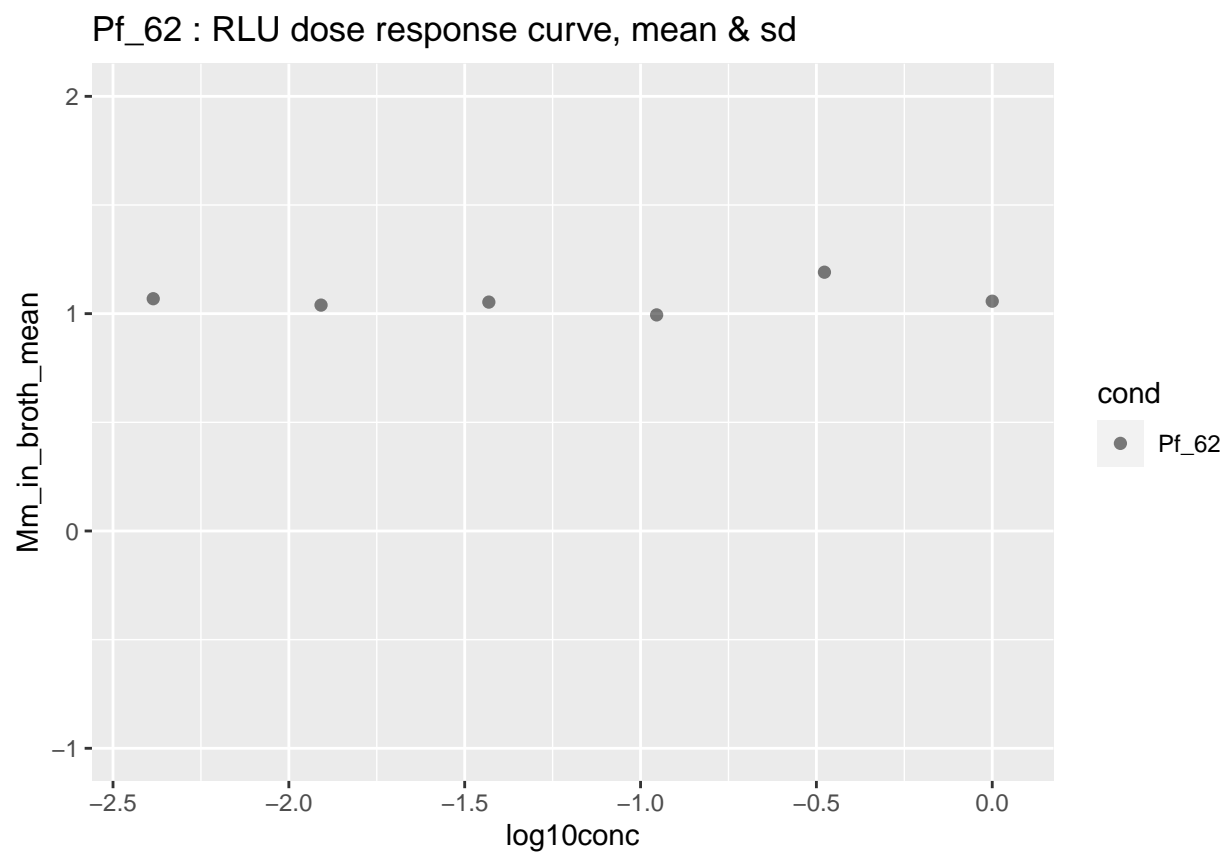




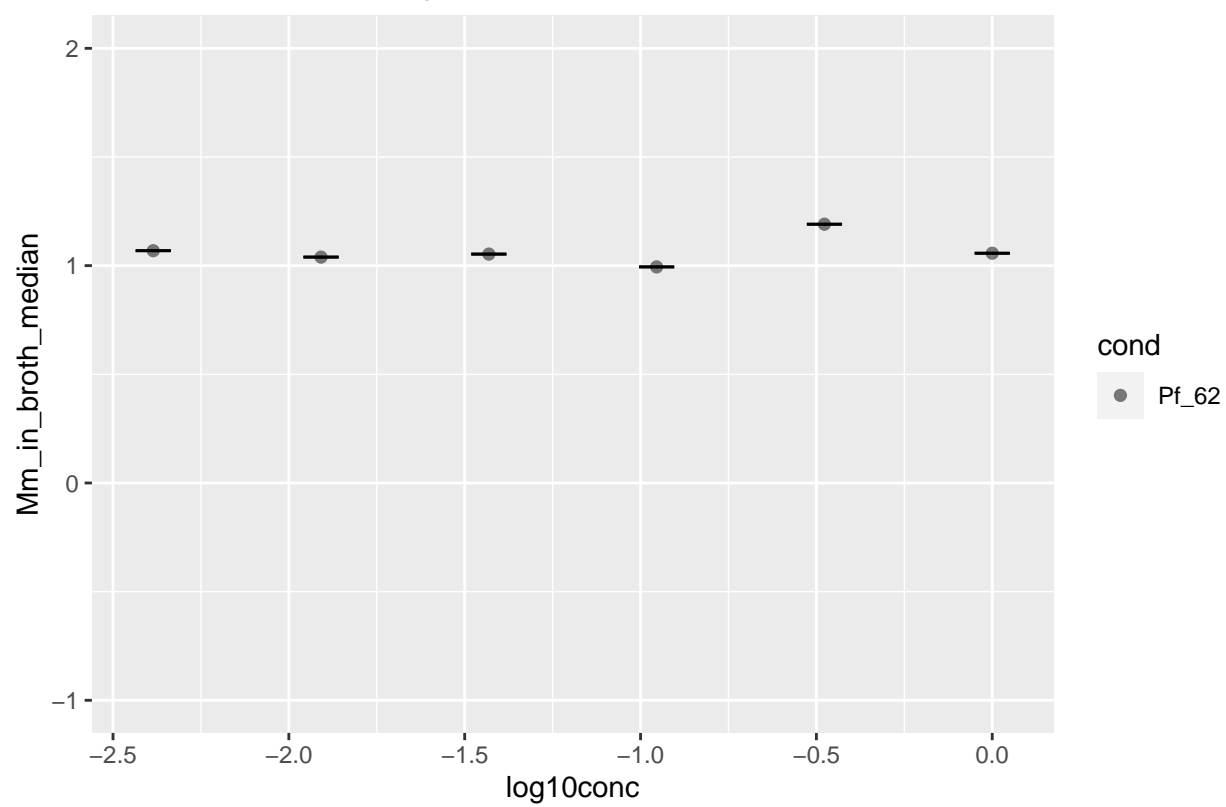




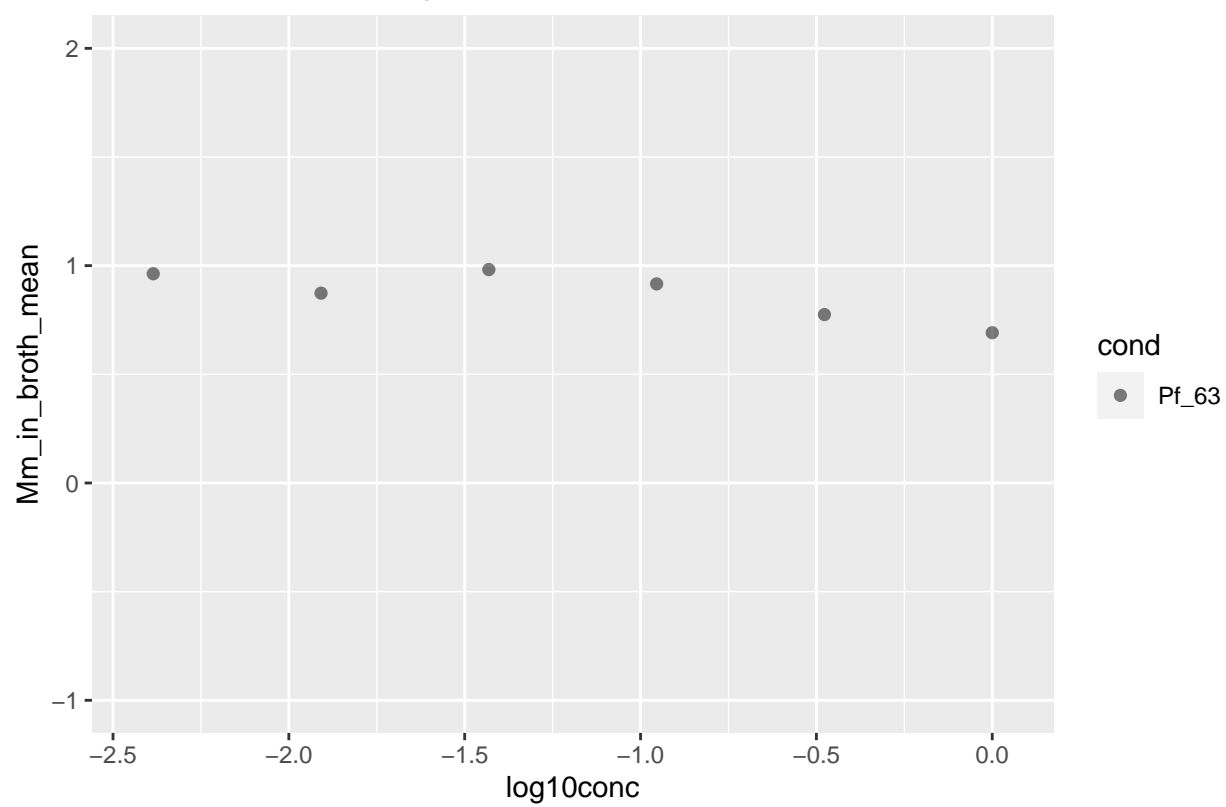




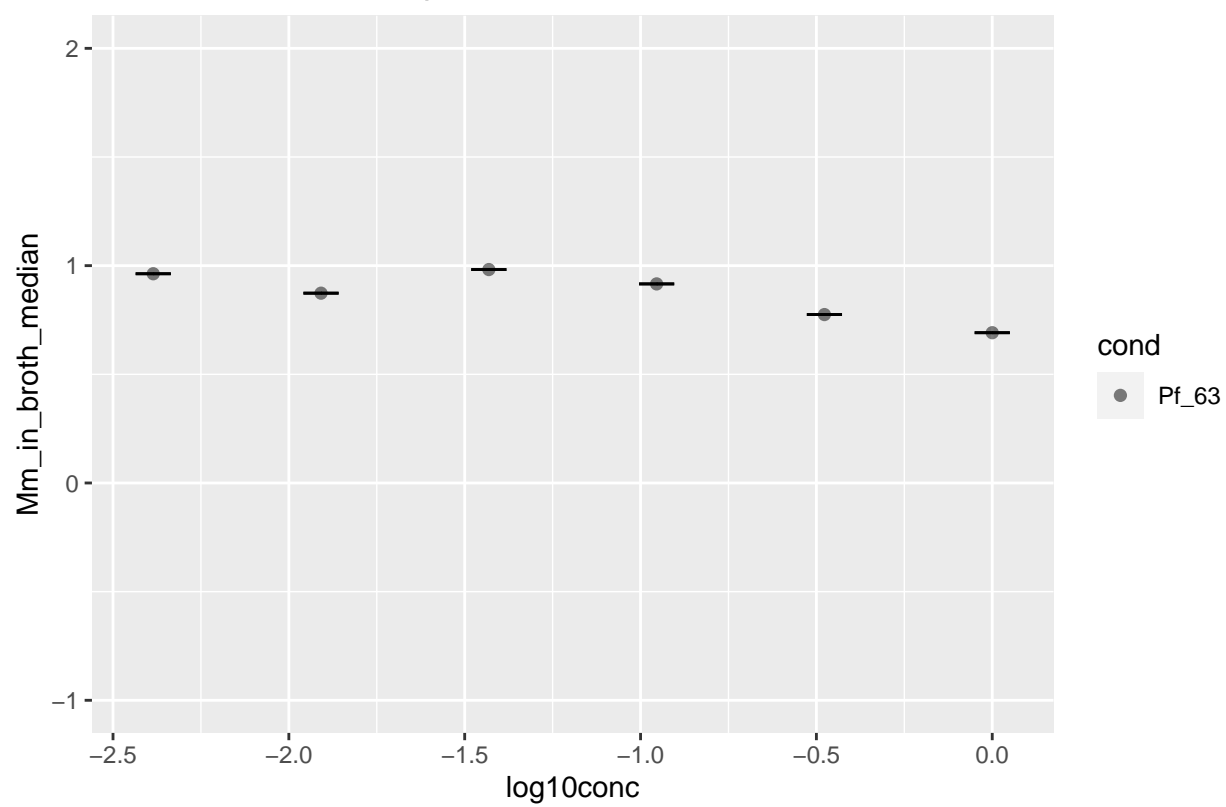
Pf_62 : RLU dose response curve, median & mad



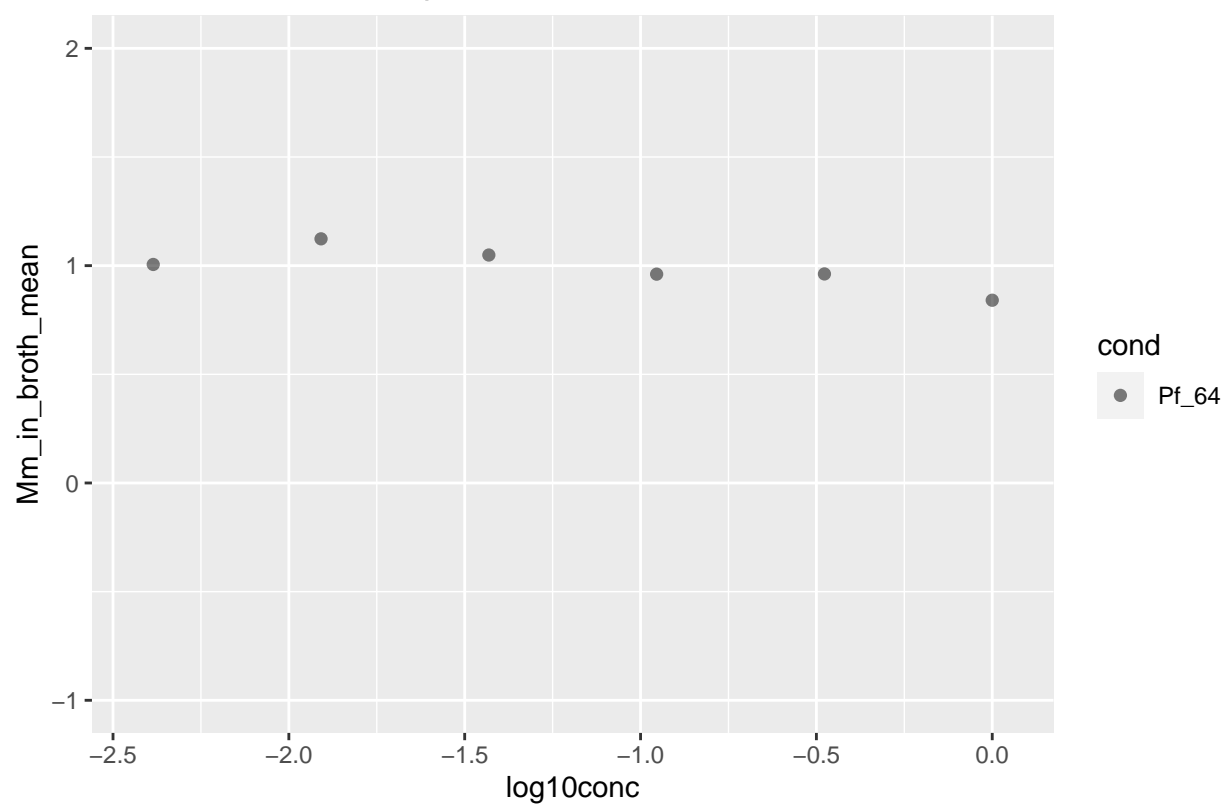
Pf_63 : RLU dose response curve, mean & sd

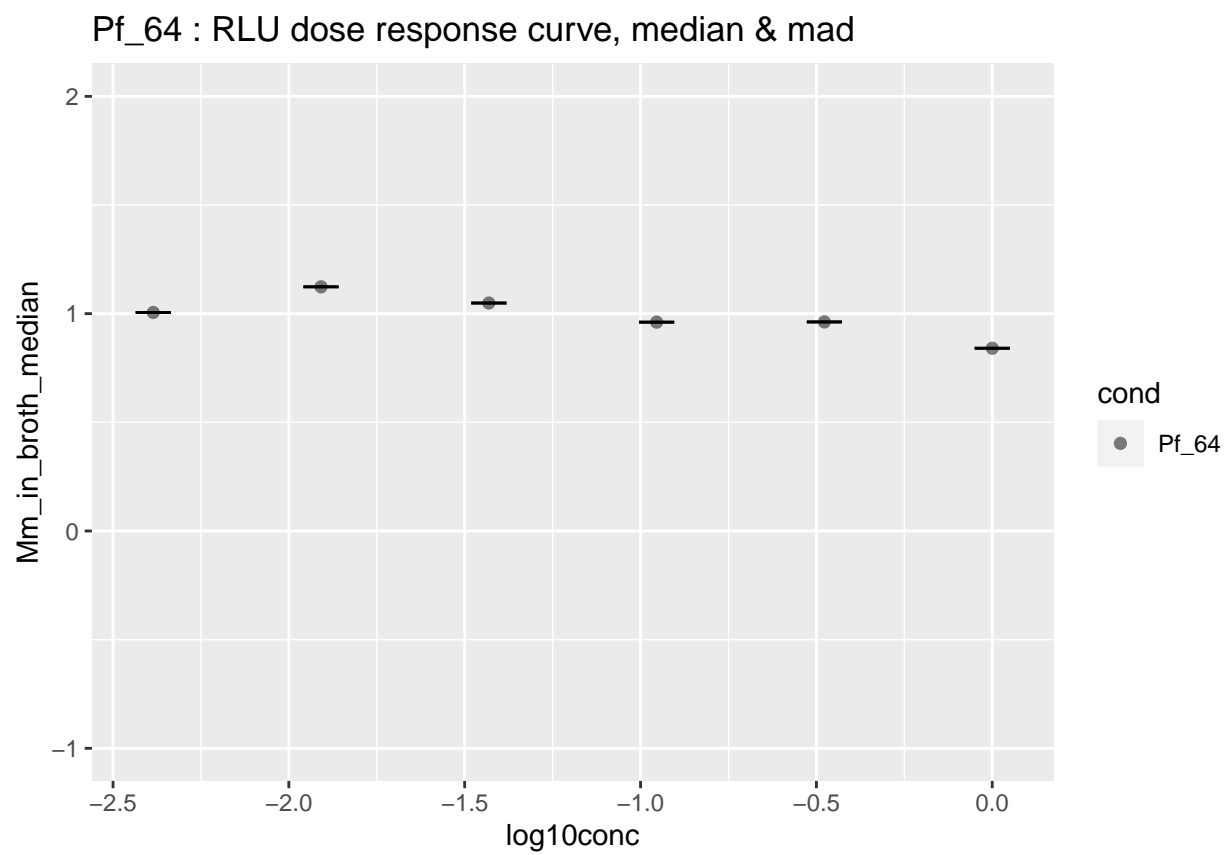


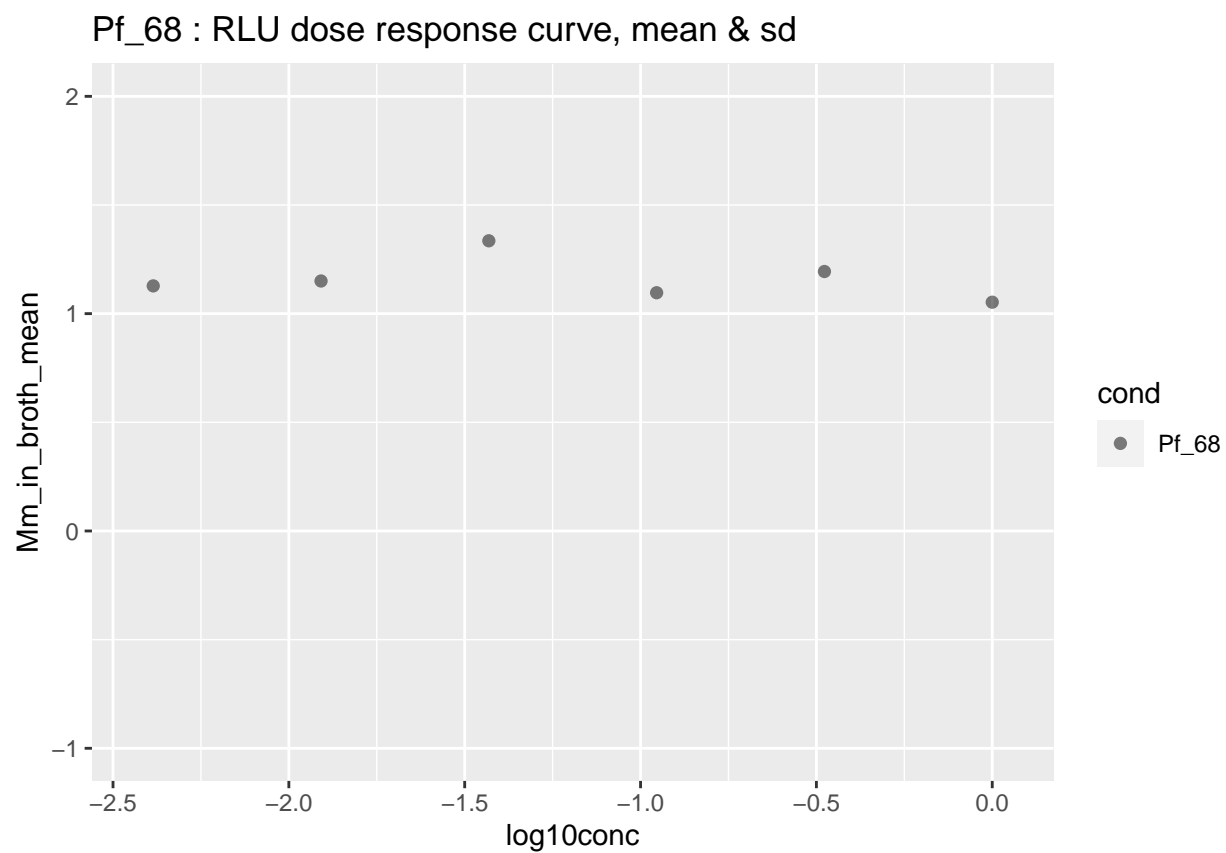
Pf_63 : RLU dose response curve, median & mad



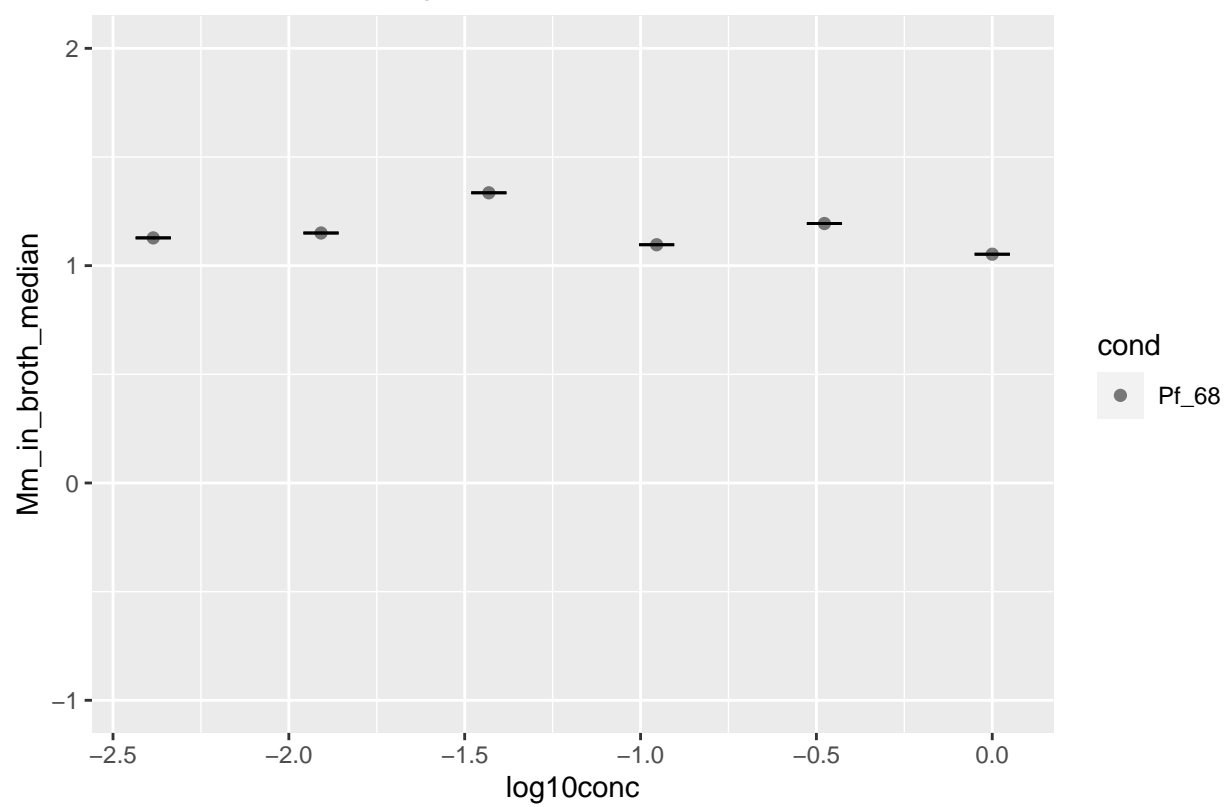
Pf_64 : RLU dose response curve, mean & sd

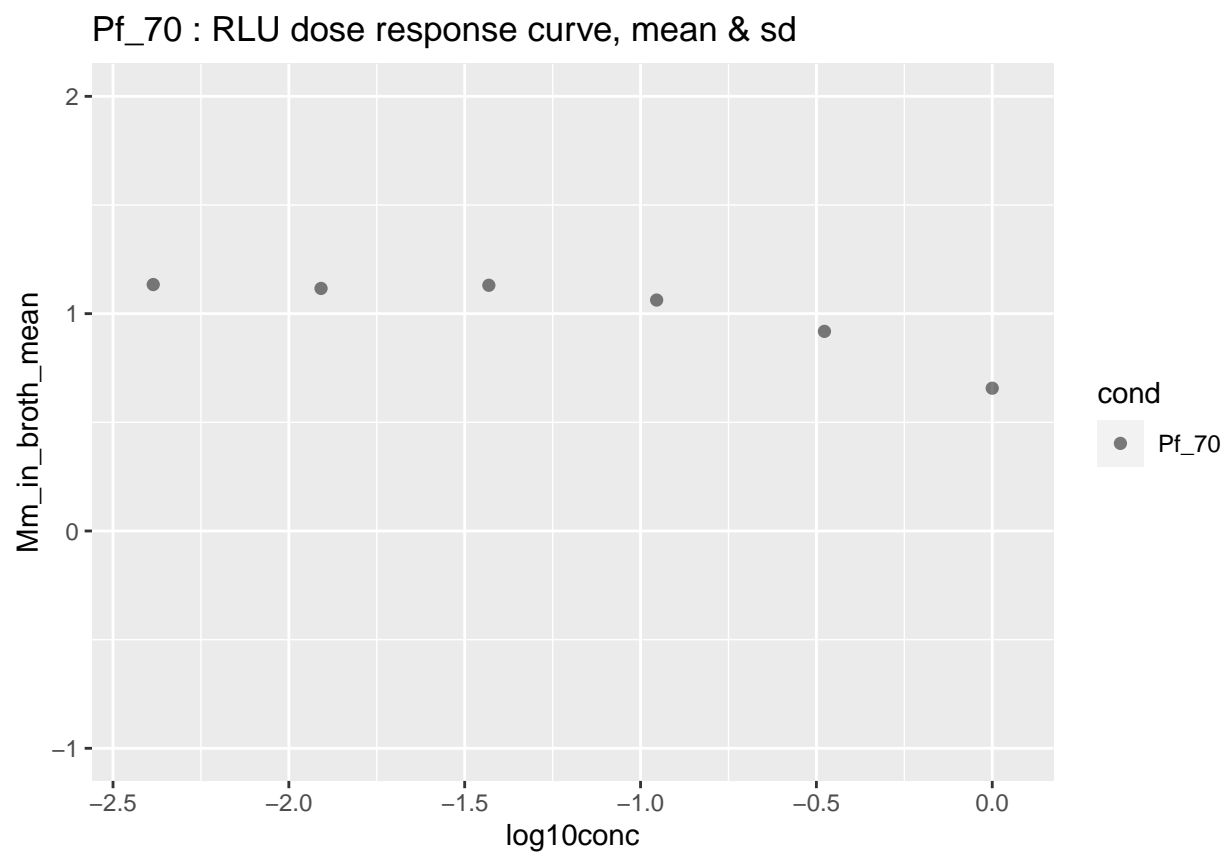




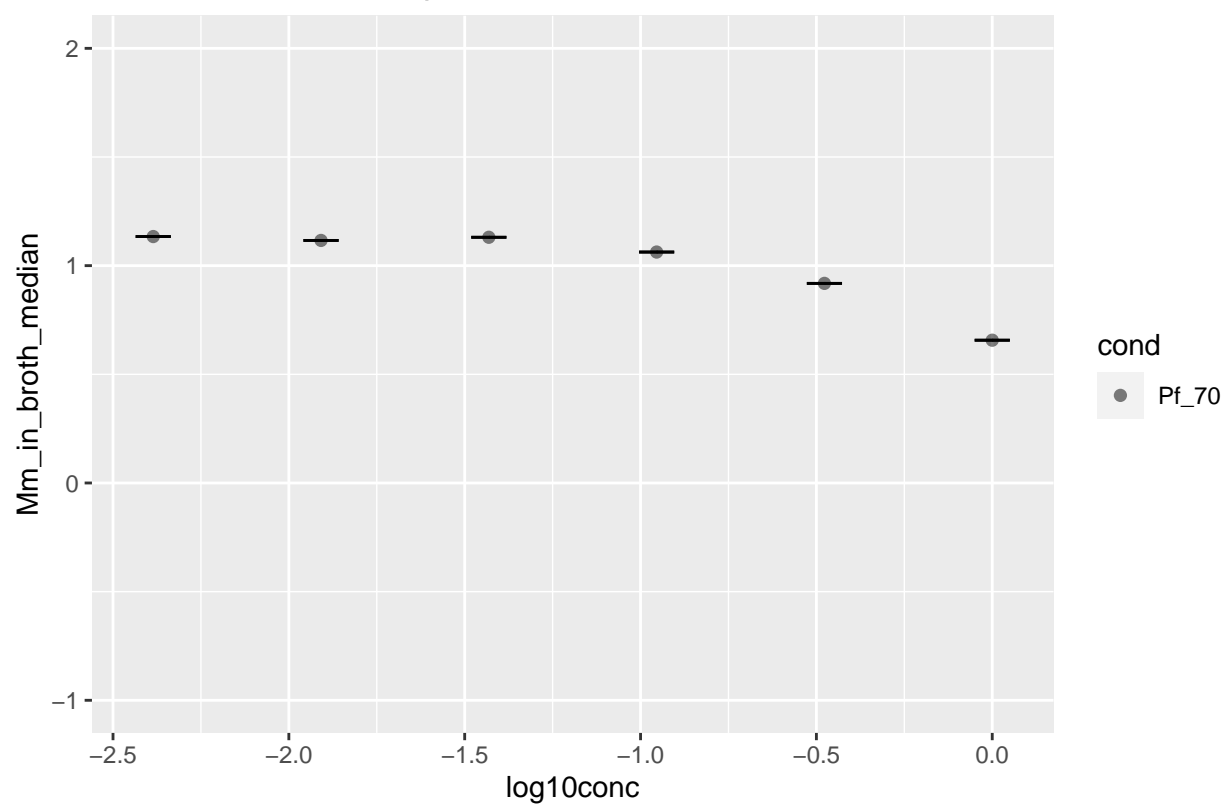


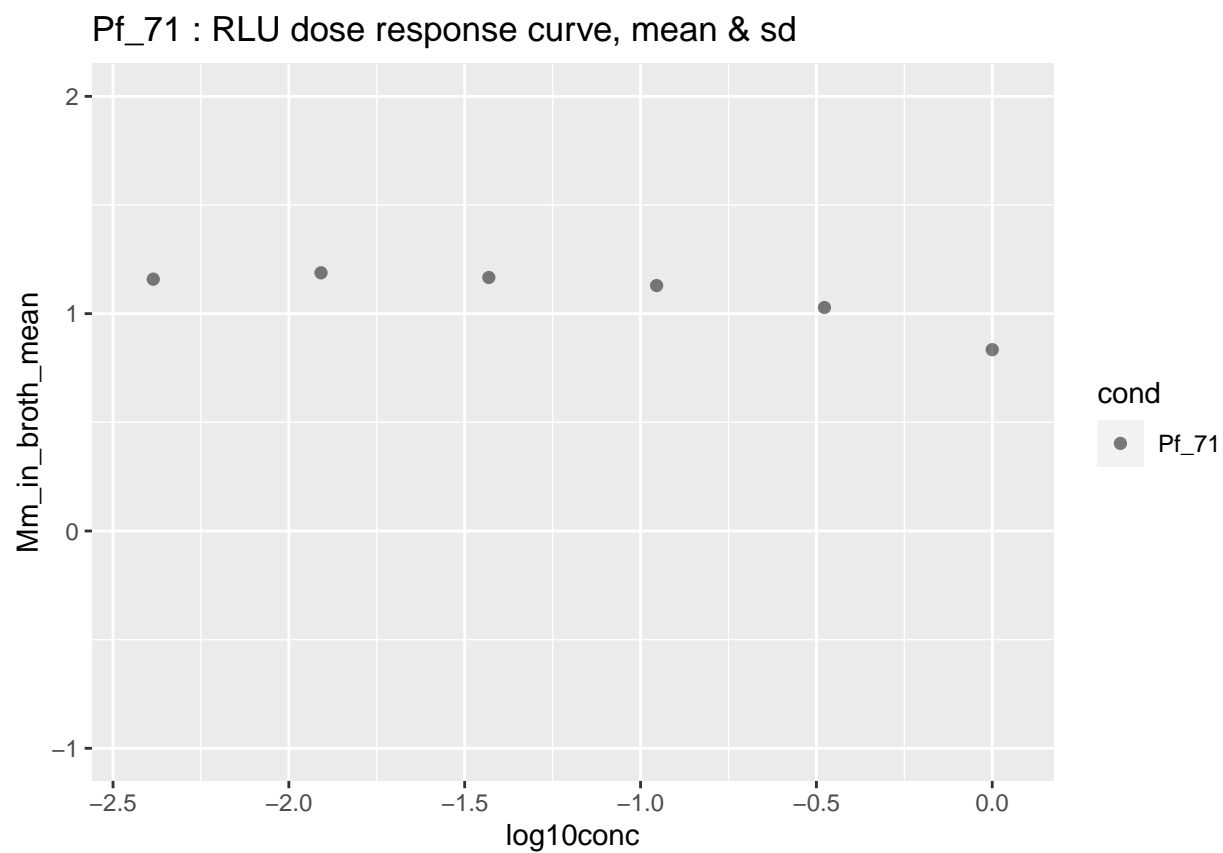
Pf_68 : RLU dose response curve, median & mad



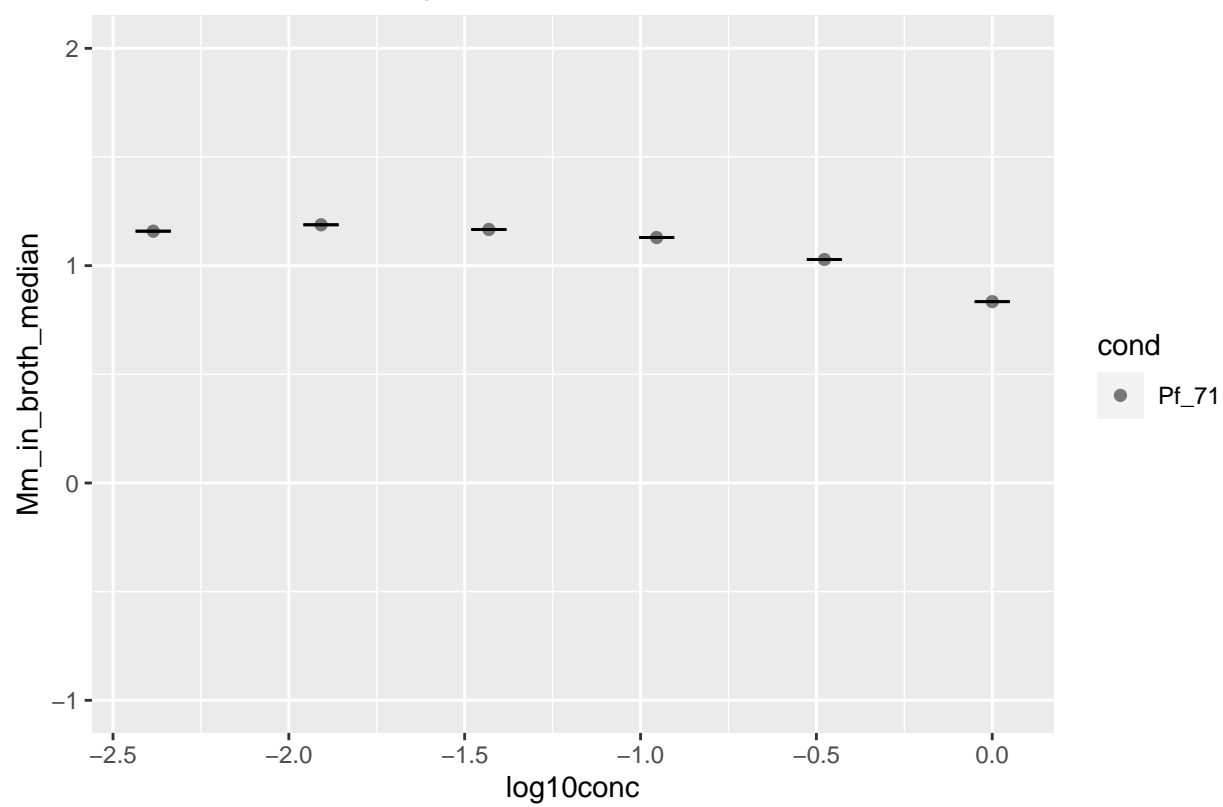


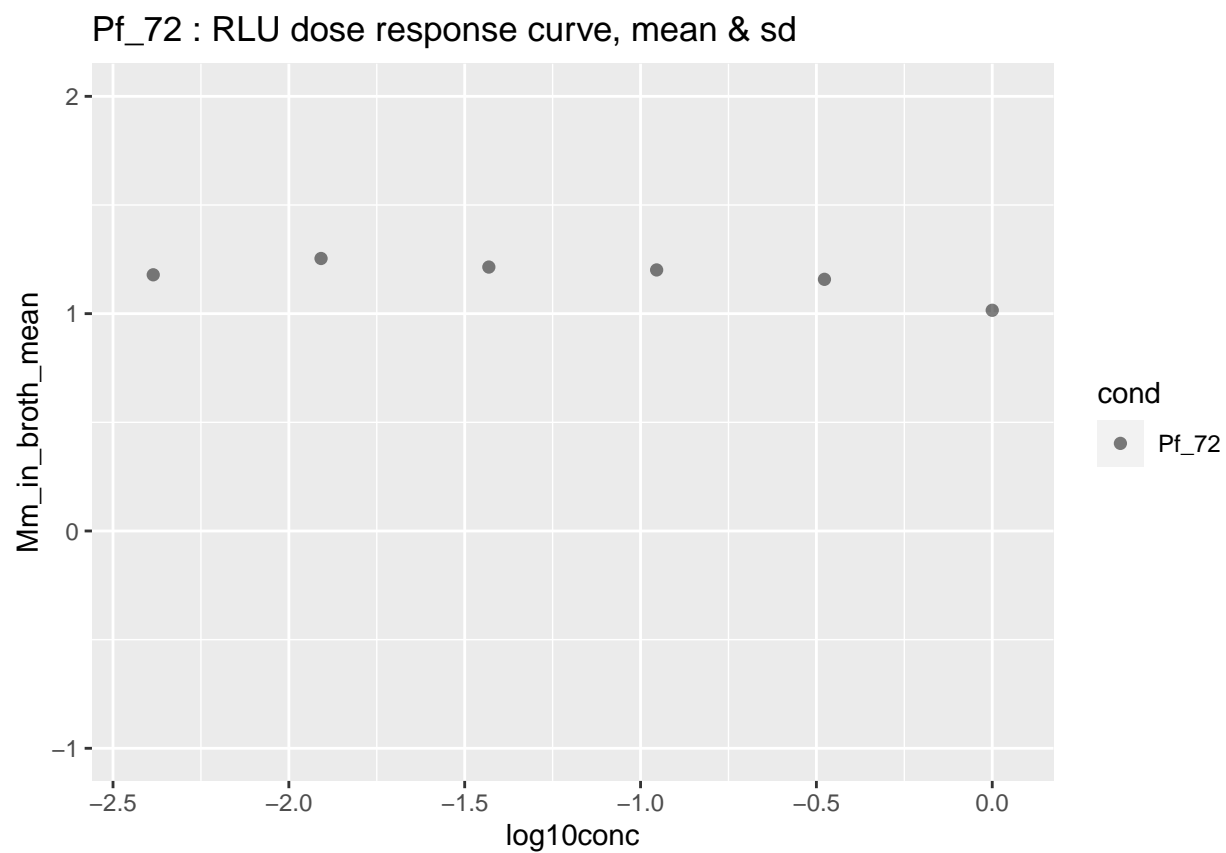
Pf_70 : RLU dose response curve, median & mad



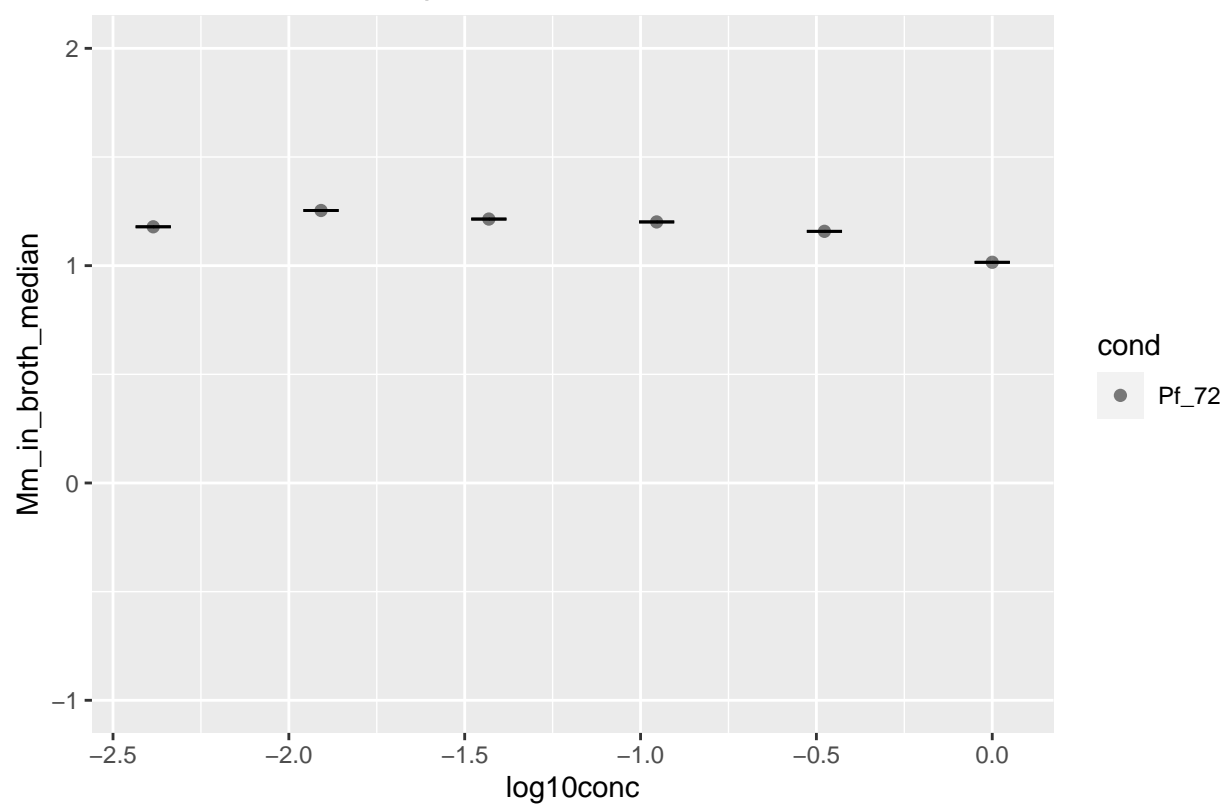


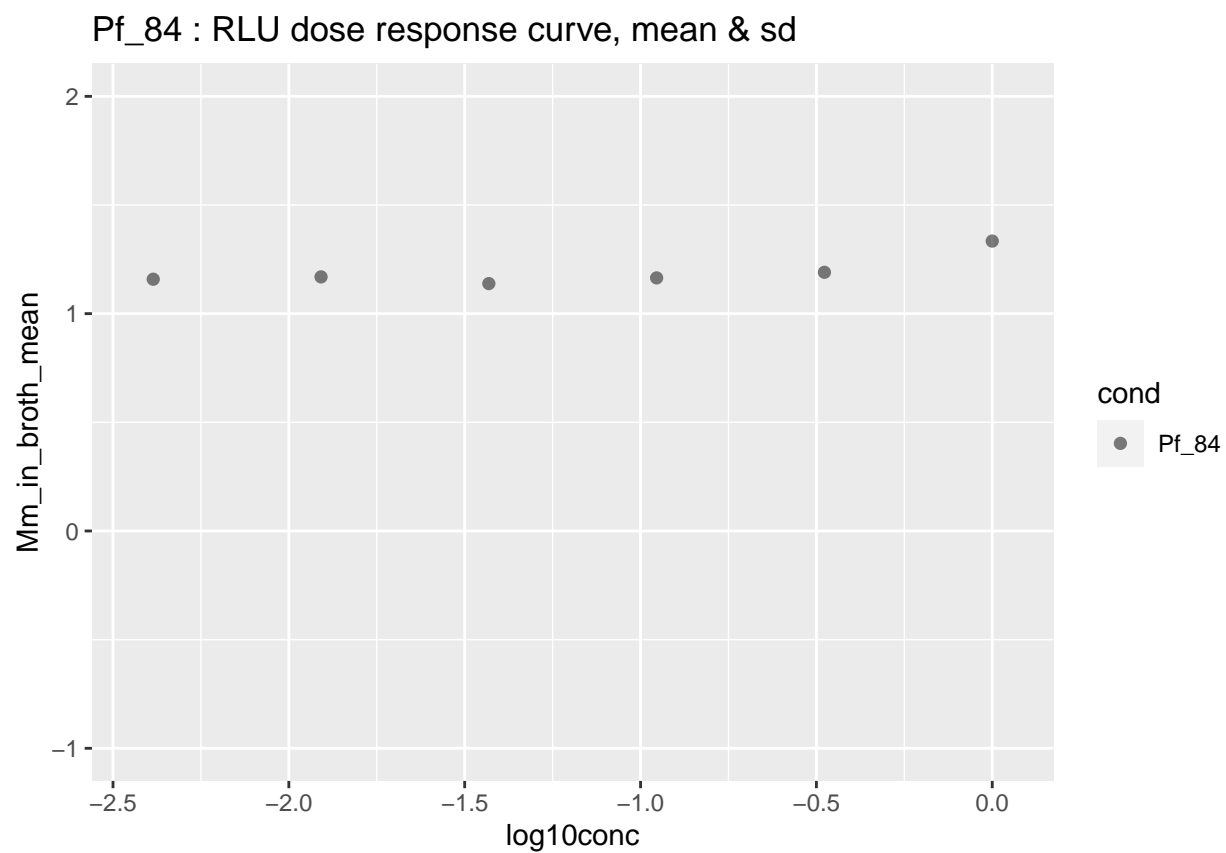
Pf_71 : RLU dose response curve, median & mad

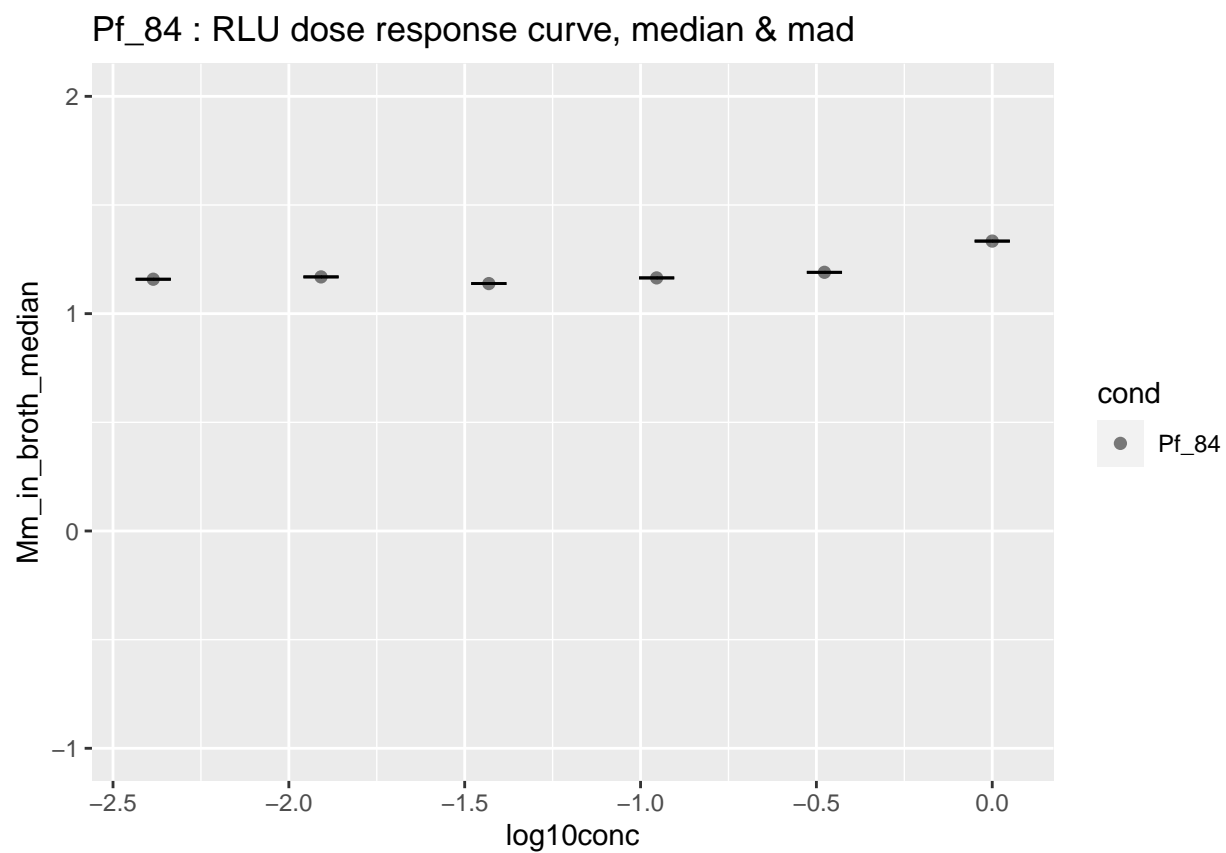


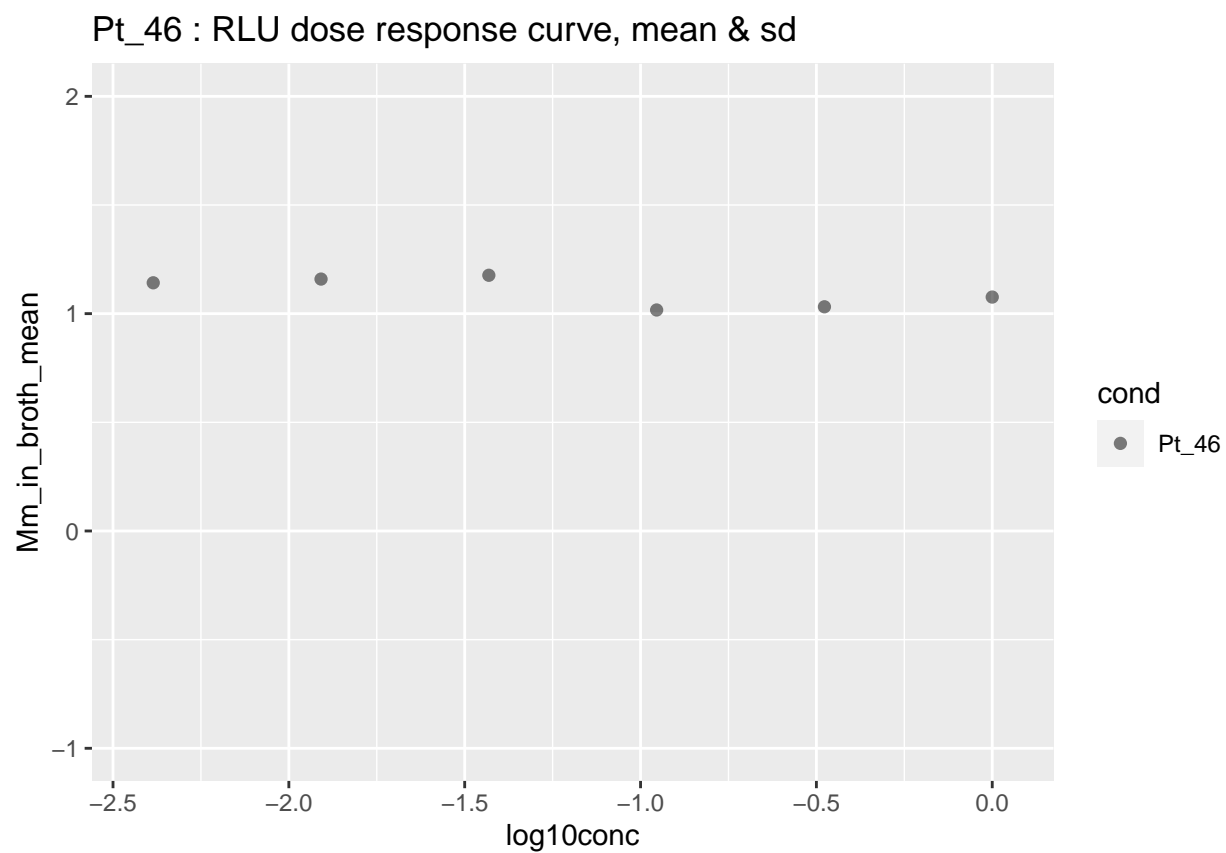


Pf_72 : RLU dose response curve, median & mad

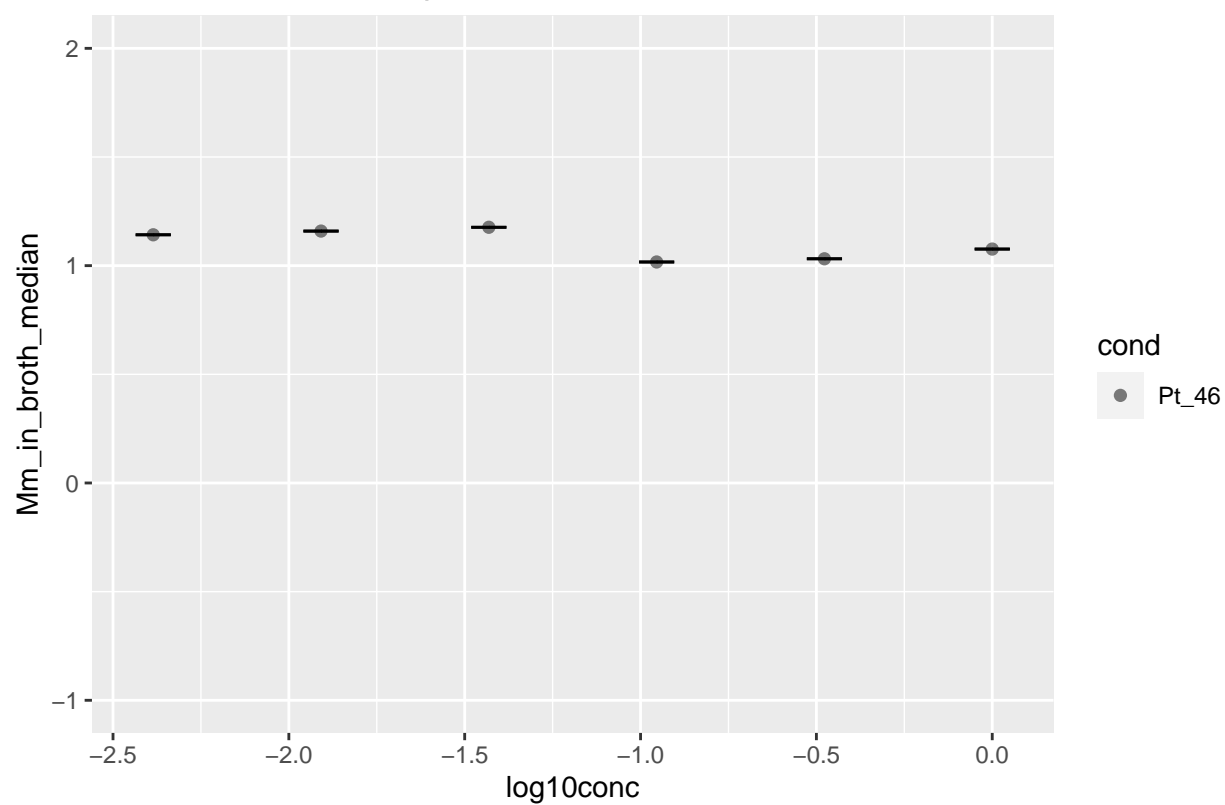




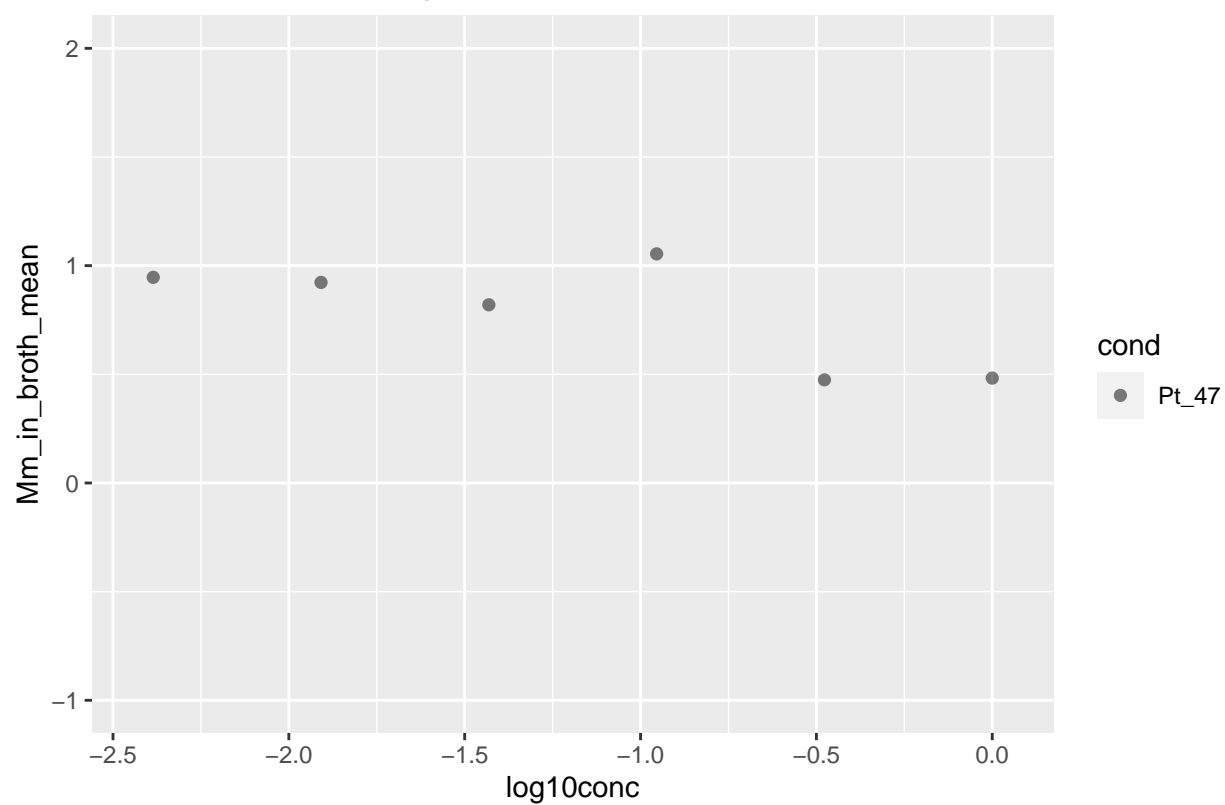


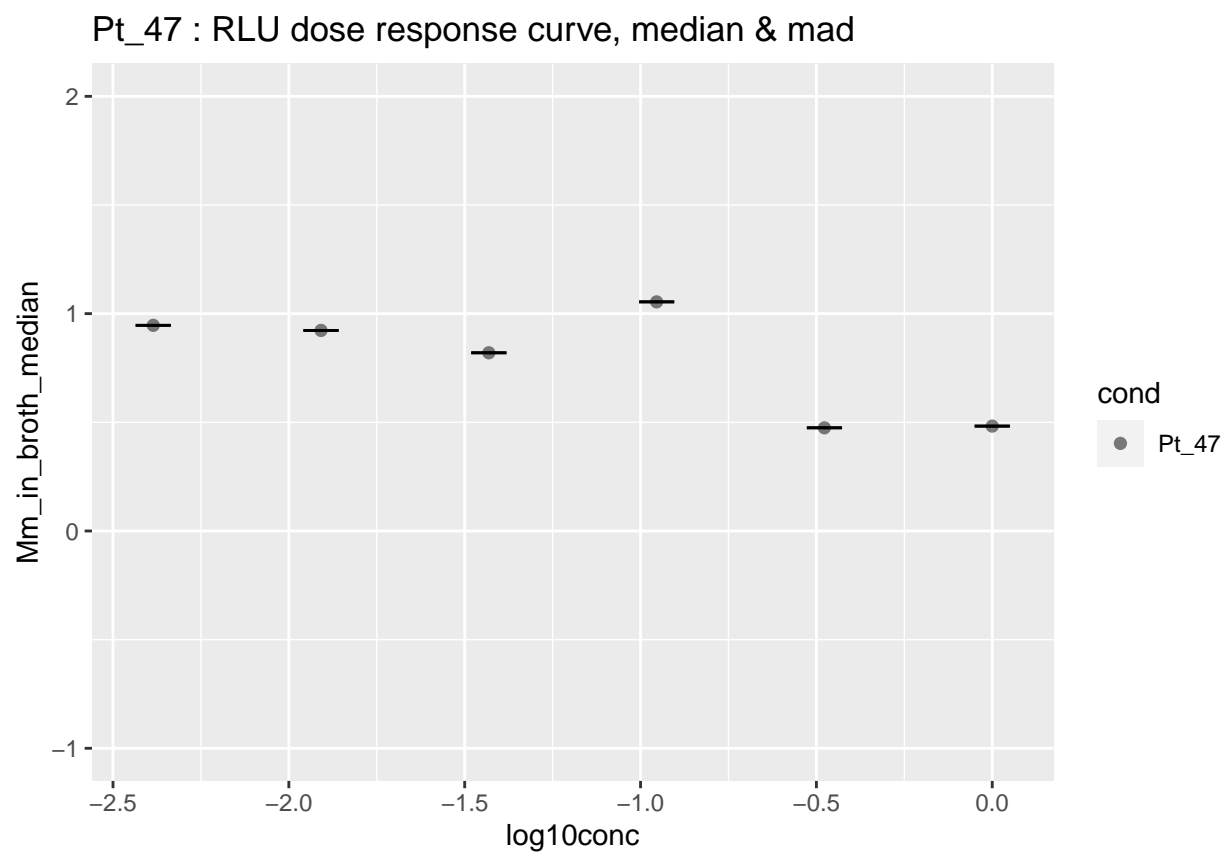


Pt_46 : RLU dose response curve, median & mad

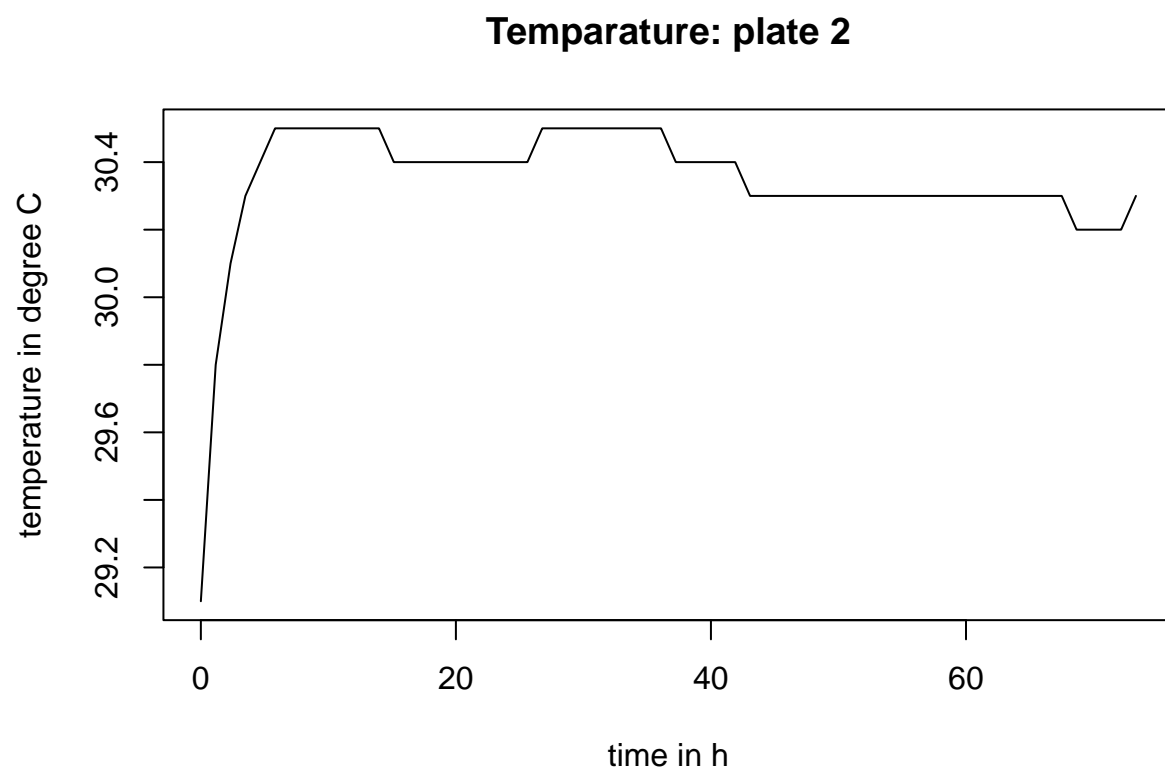


Pt_47 : RLU dose response curve, mean & sd

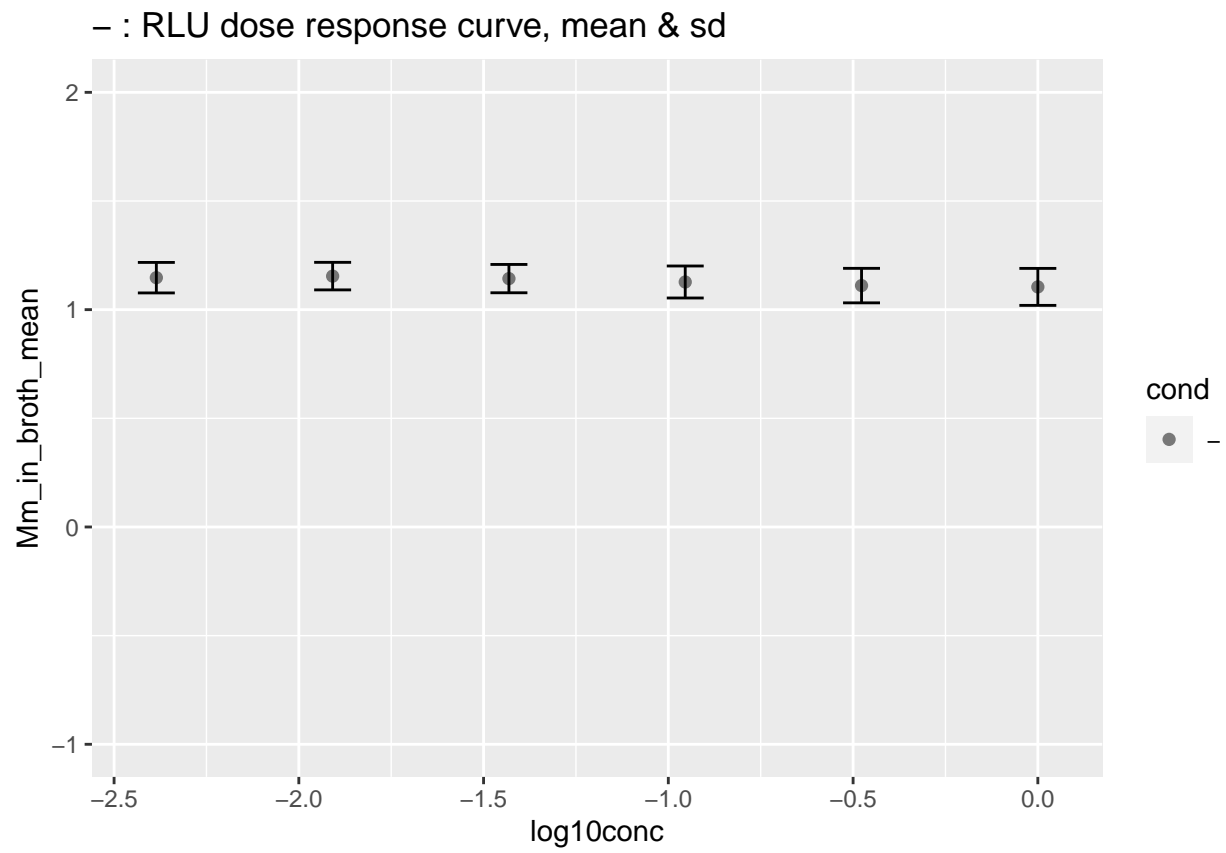


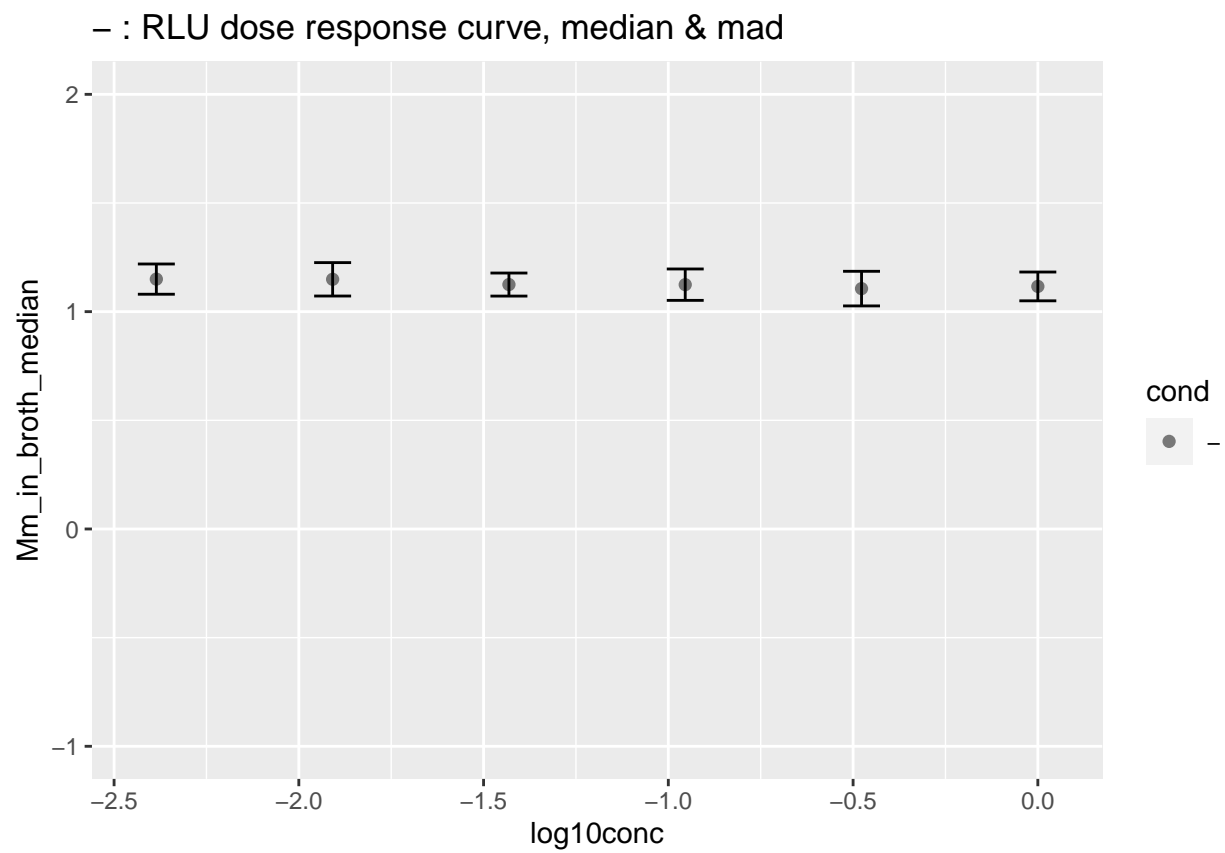


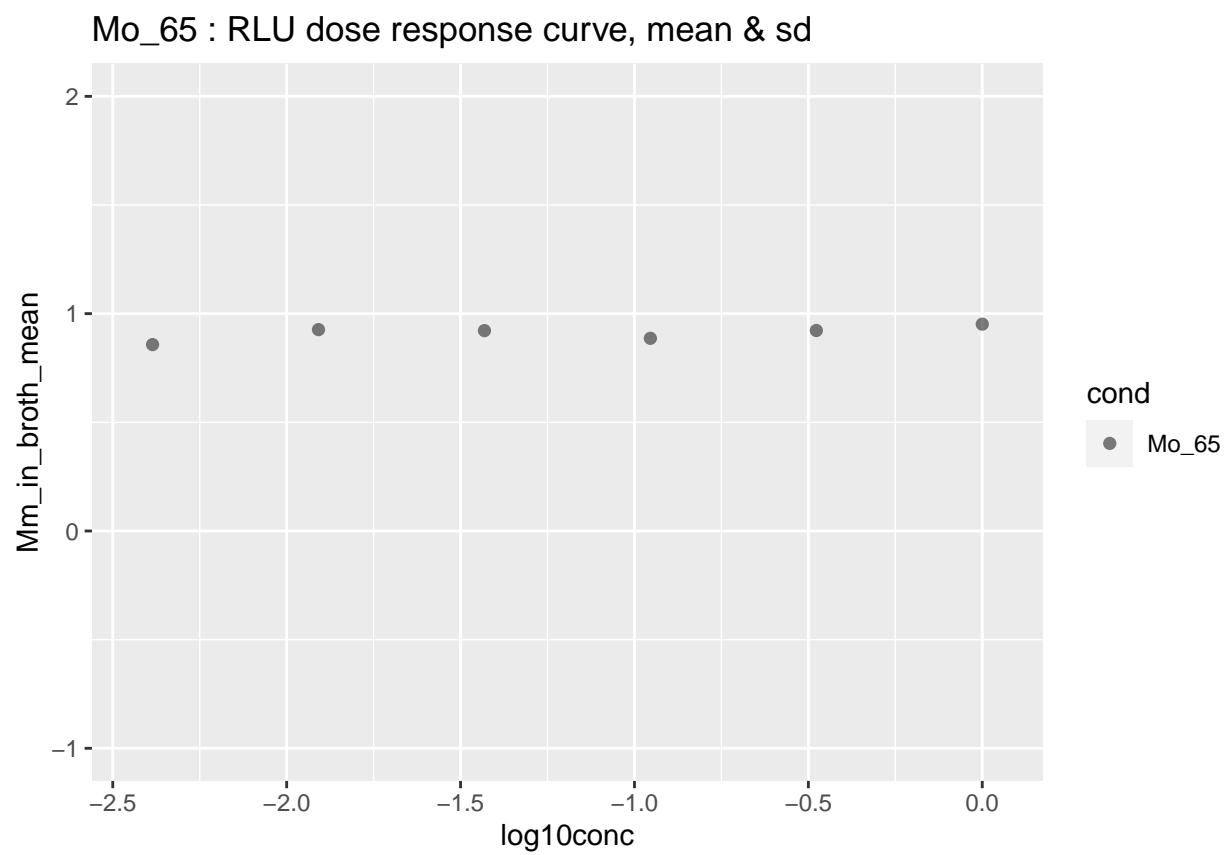
```
## [1] "analysis for plate03.xlsx"
```

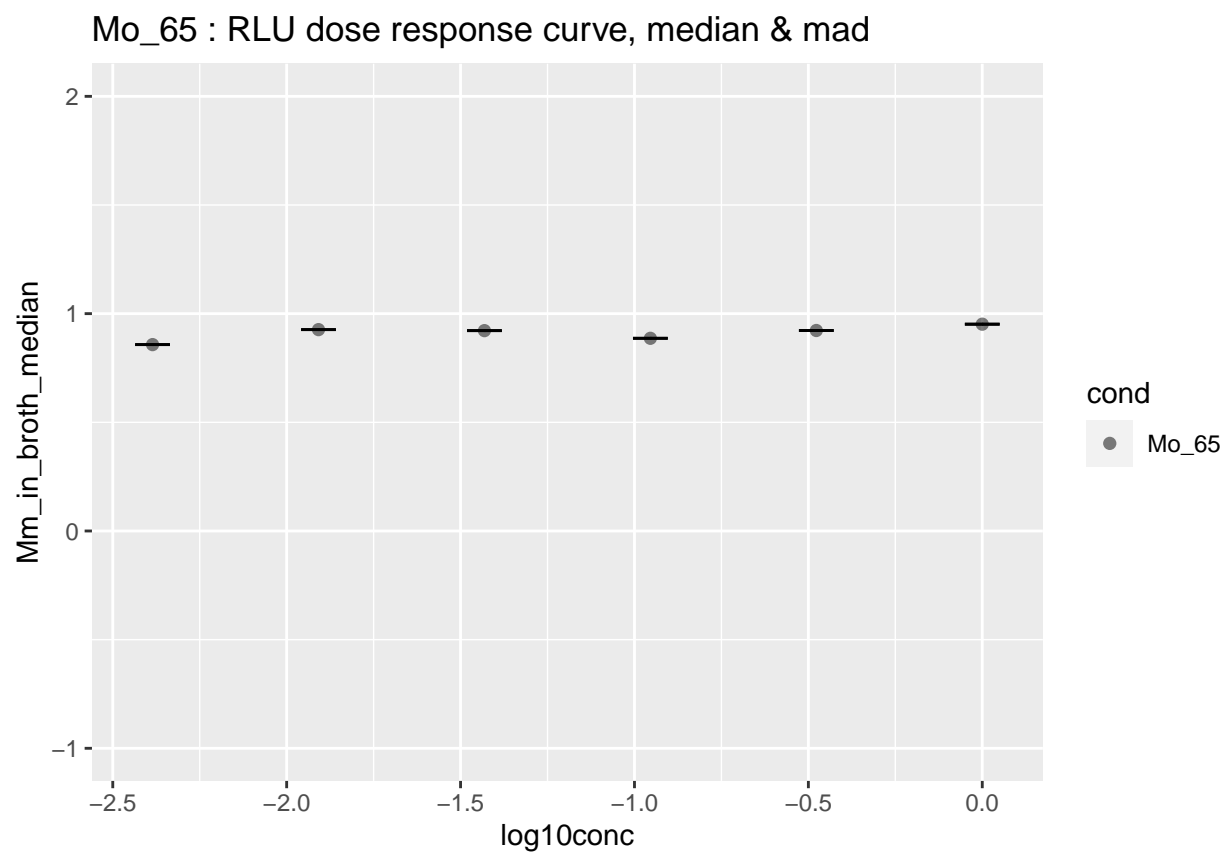


```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate03.xlsx, biorep 1 : "  
## [1] 0.84  
## [1] "Dose response curves over all bioreps within this plate"
```

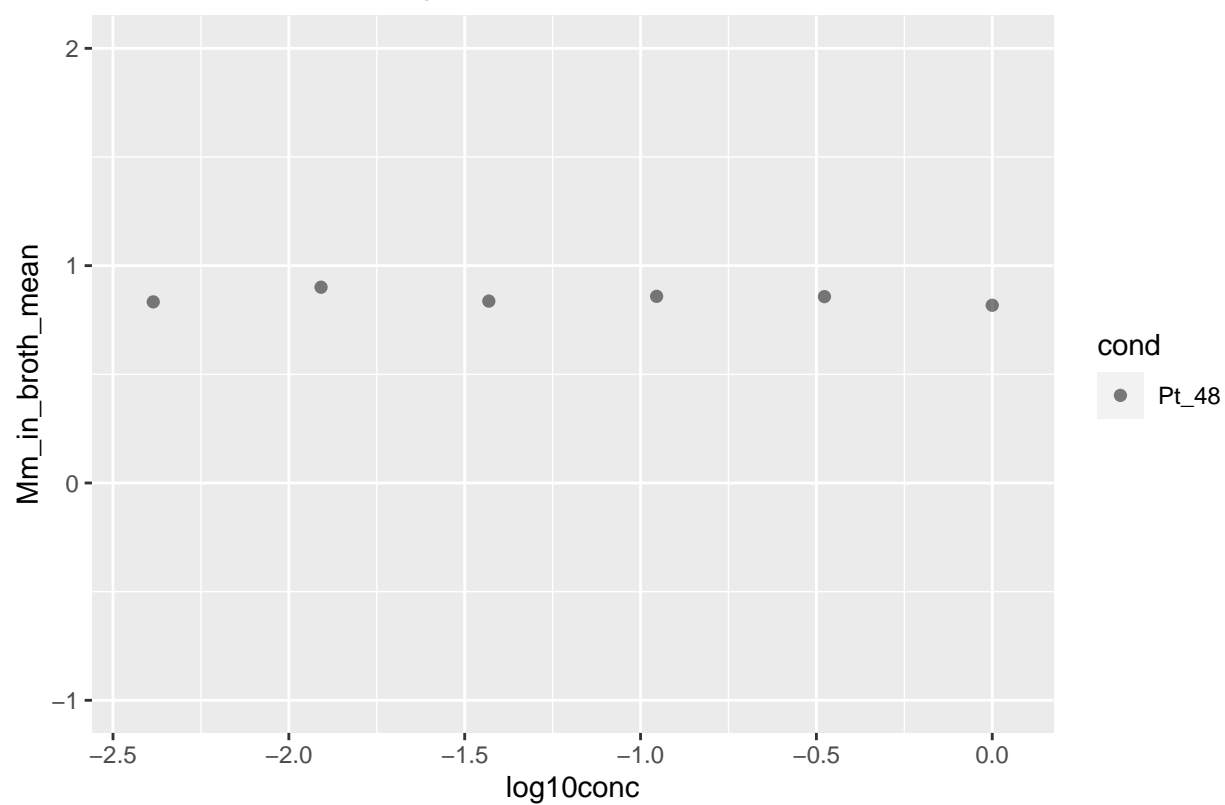



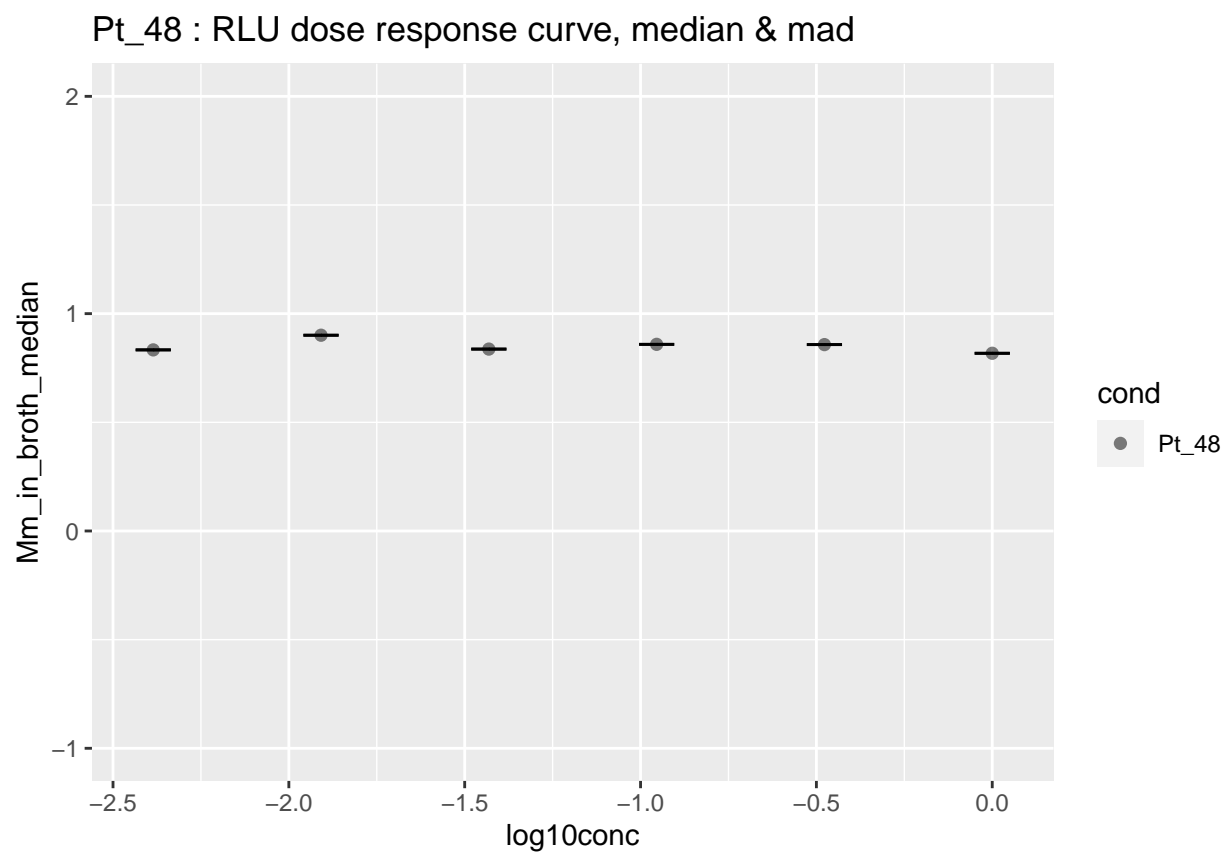


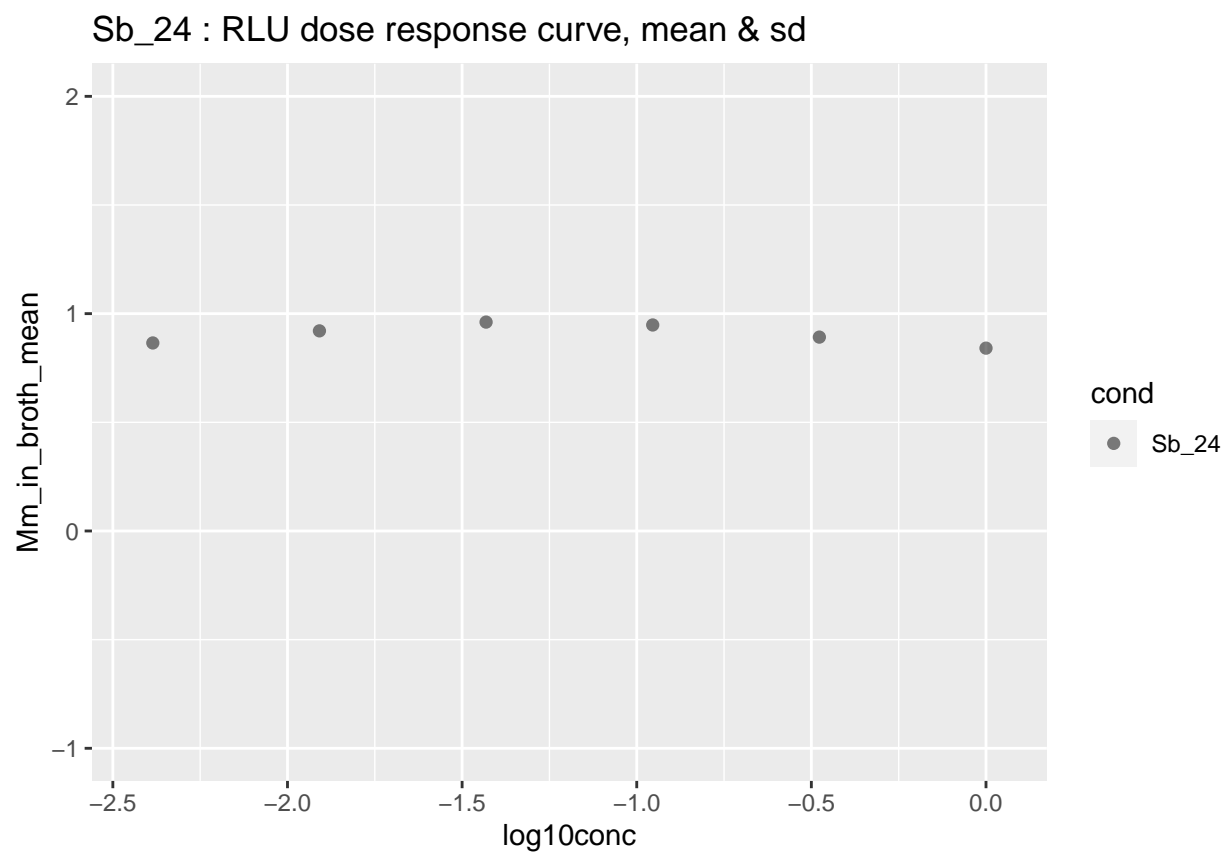




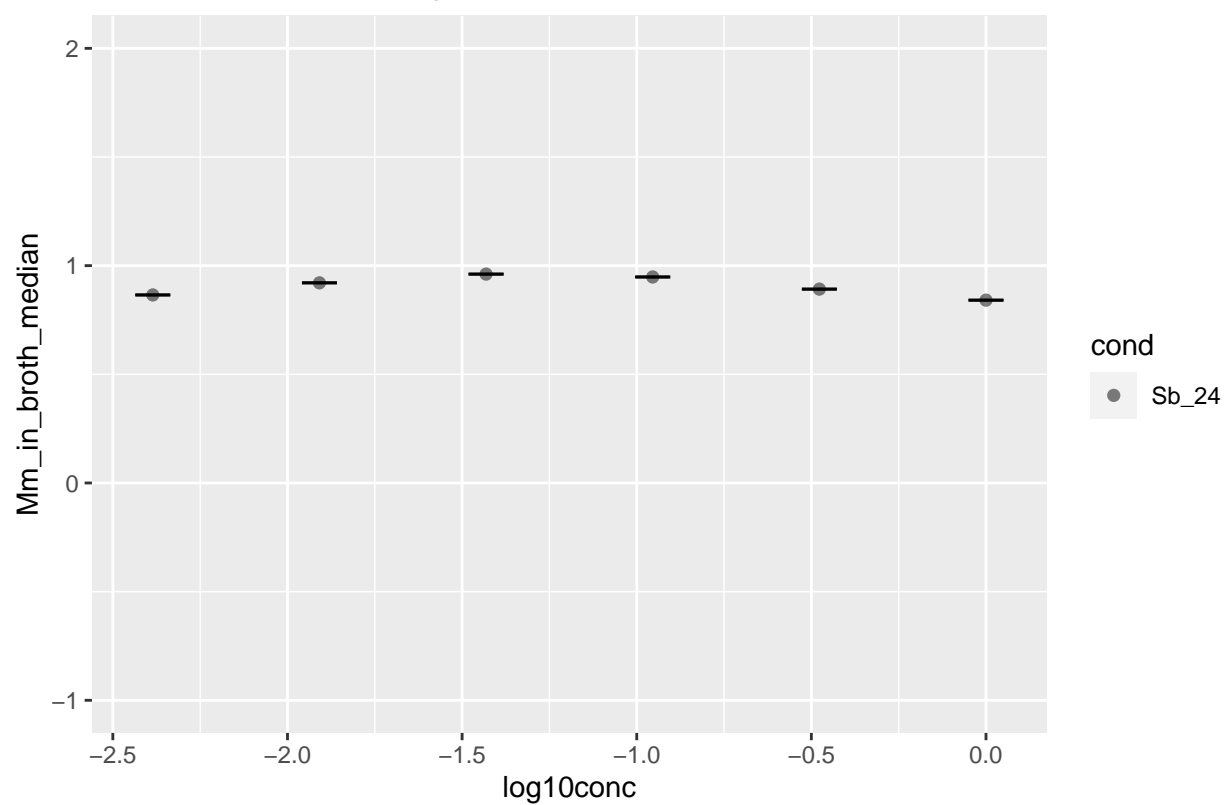
Pt_48 : RLU dose response curve, mean & sd

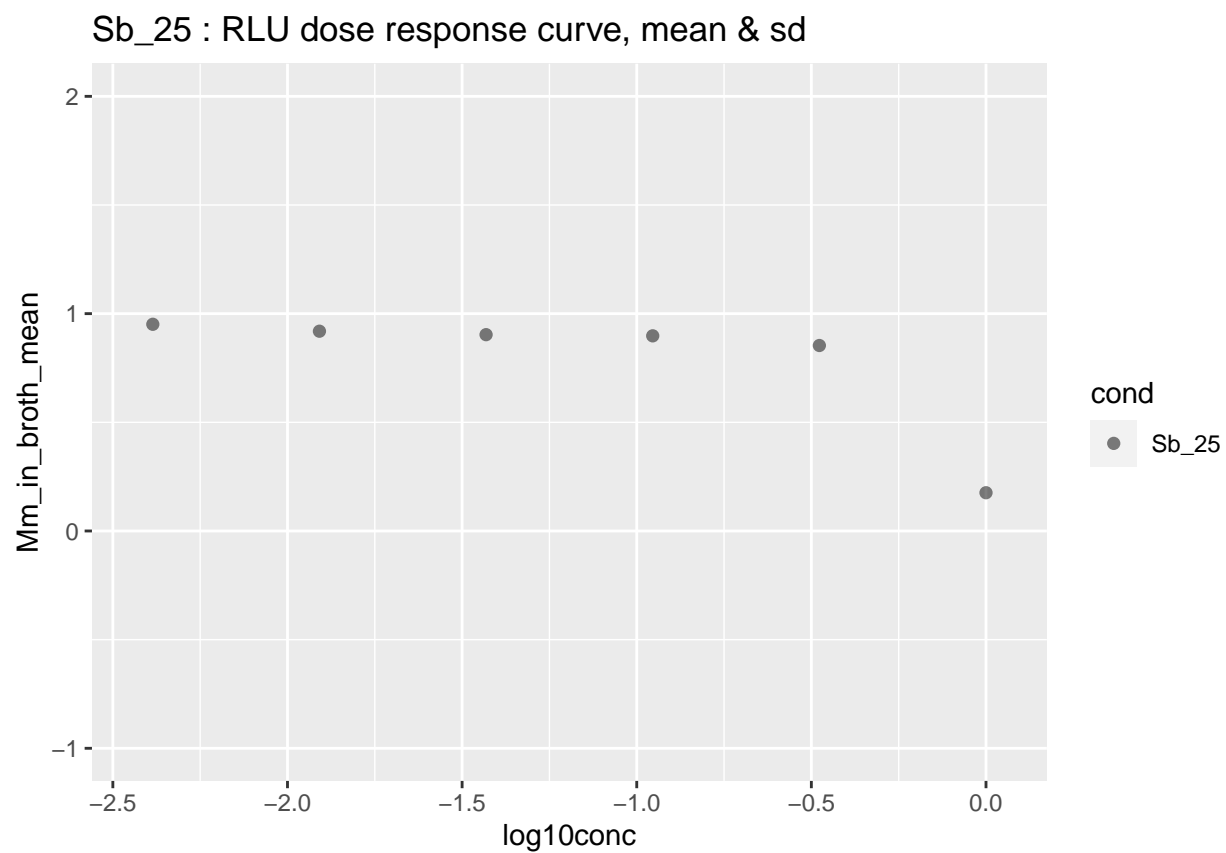




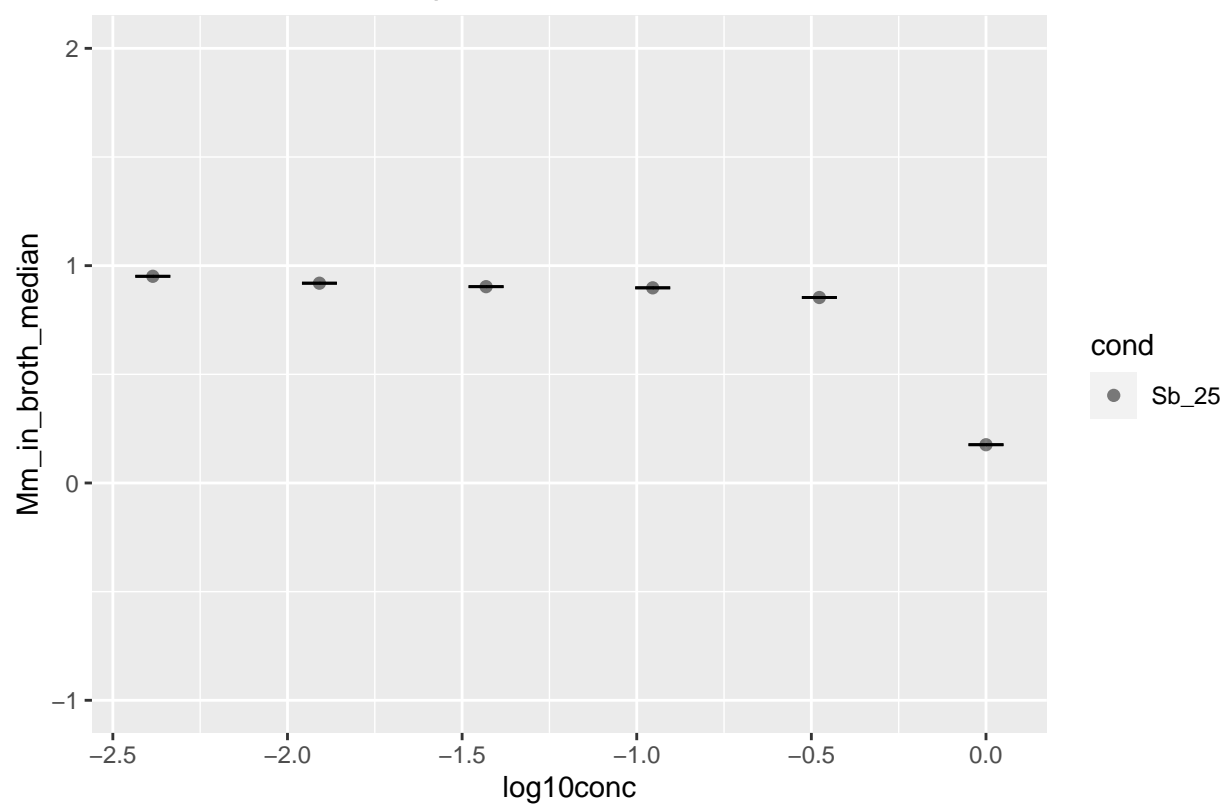


Sb_24 : RLU dose response curve, median & mad

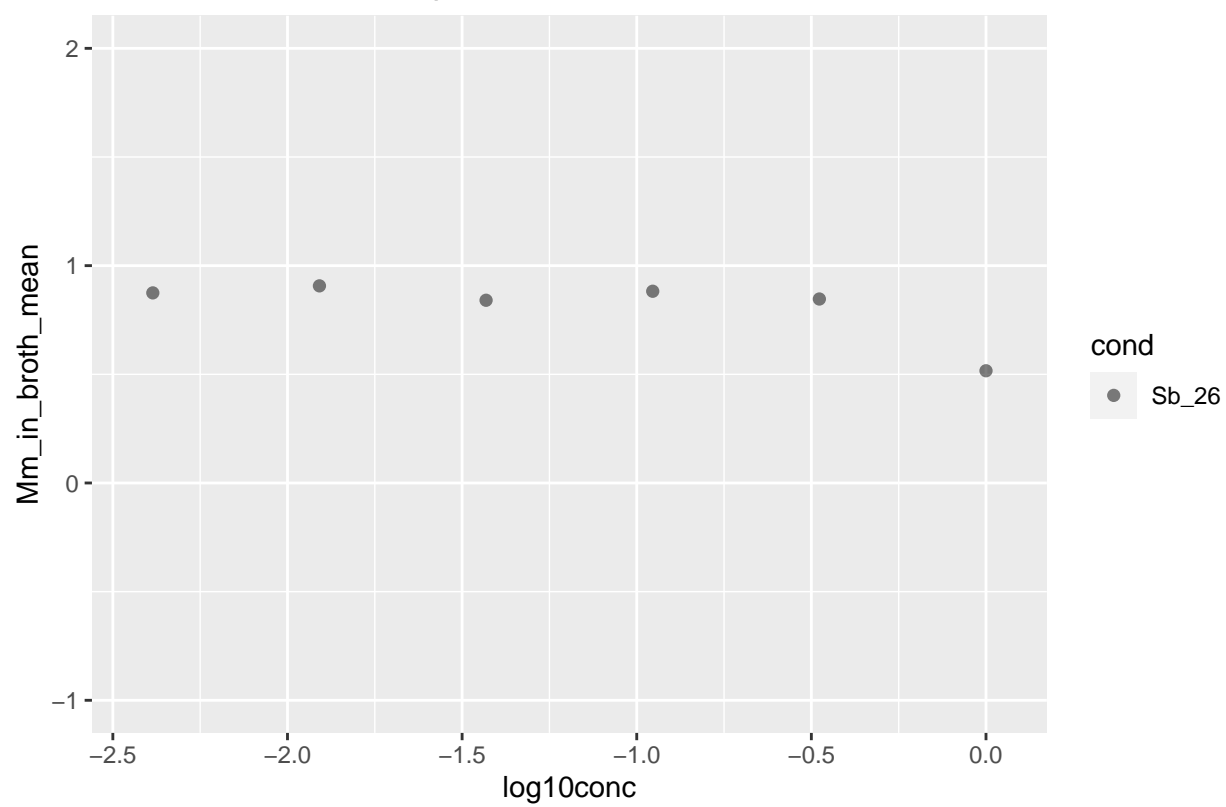


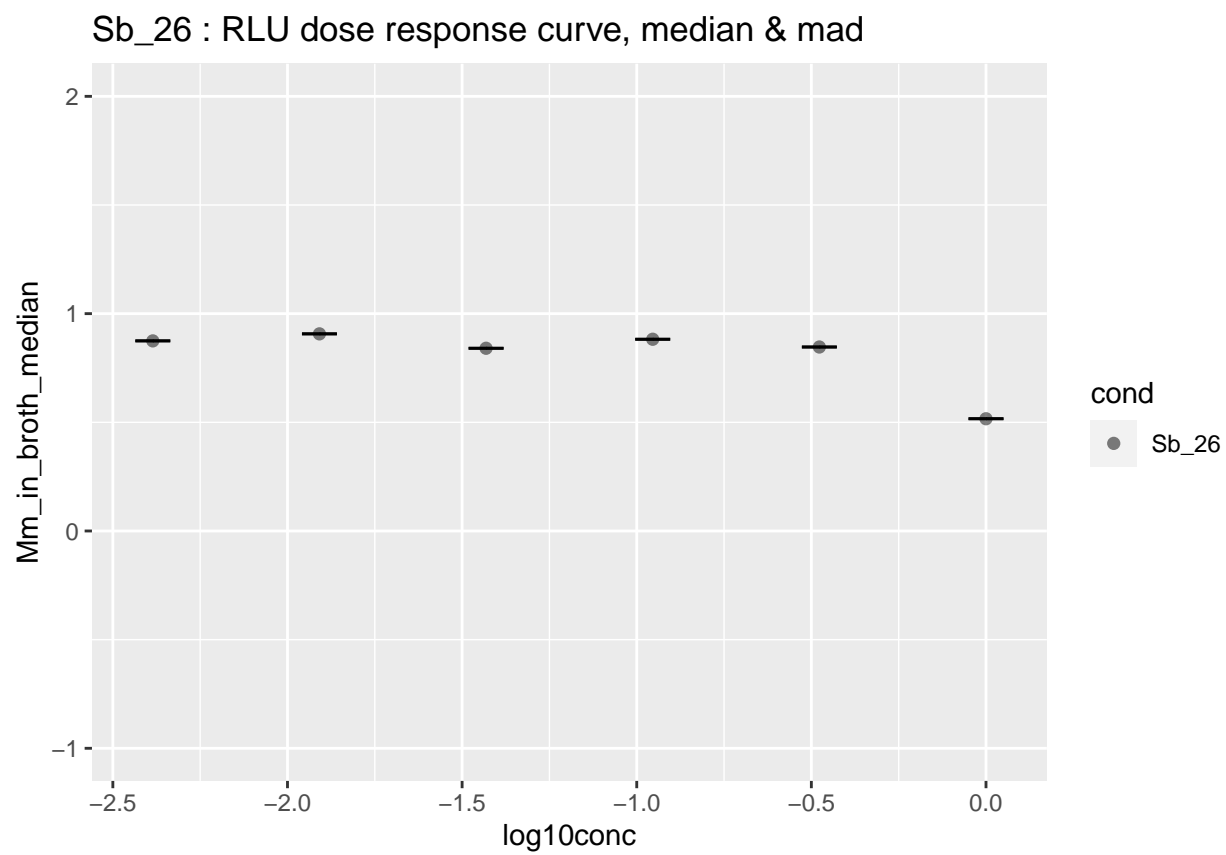


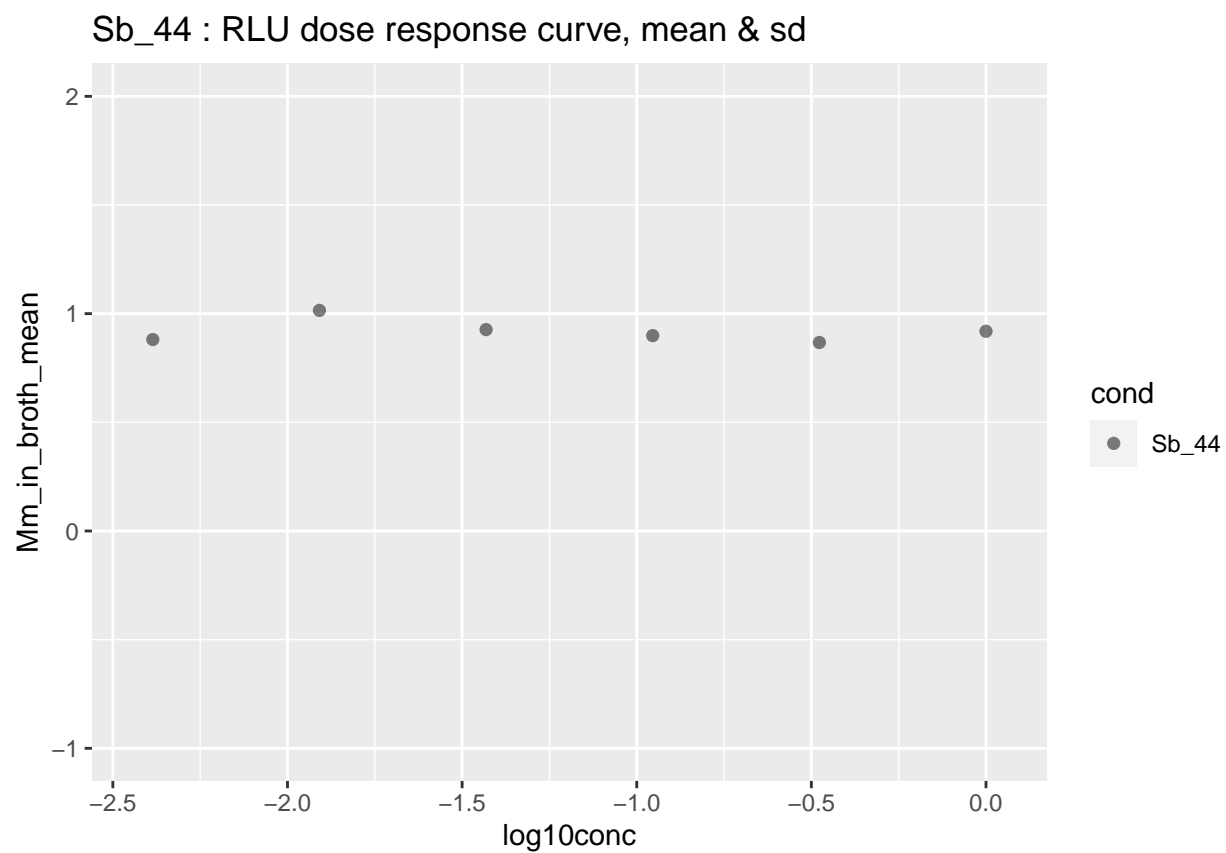
Sb_25 : RLU dose response curve, median & mad



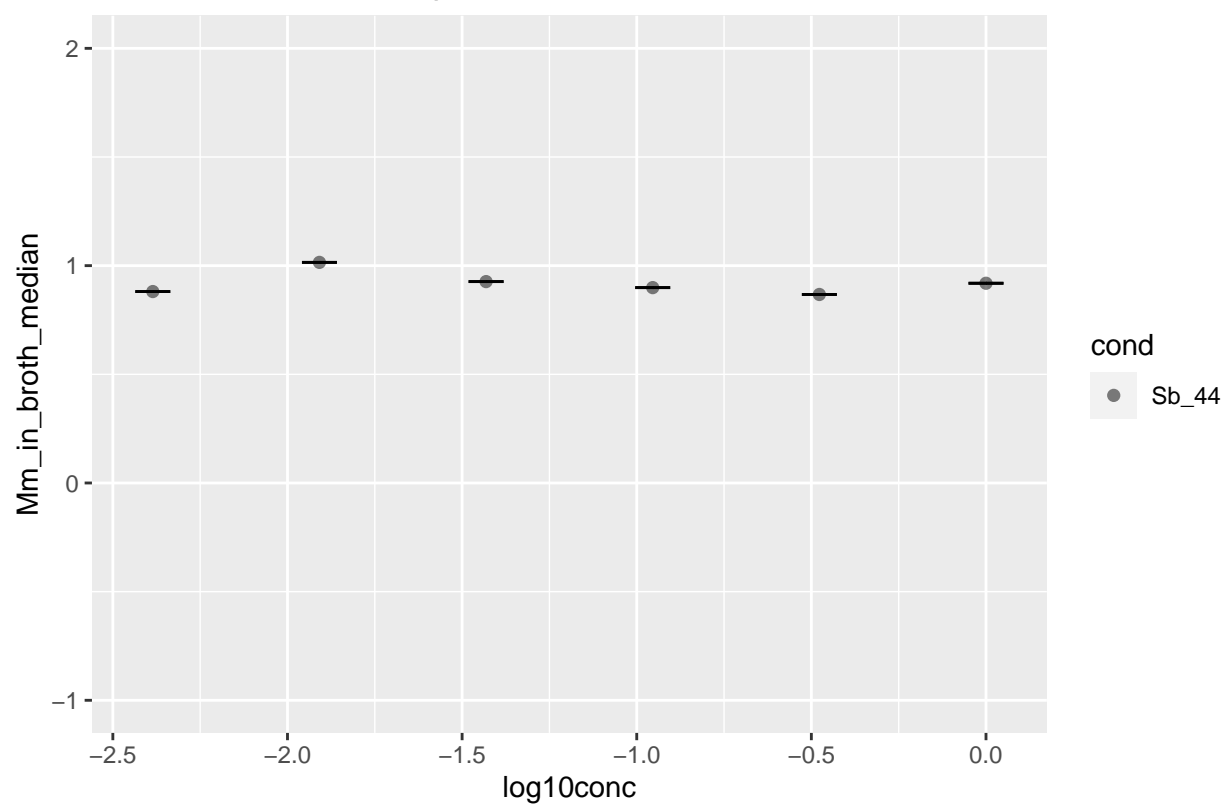
Sb_26 : RLU dose response curve, mean & sd

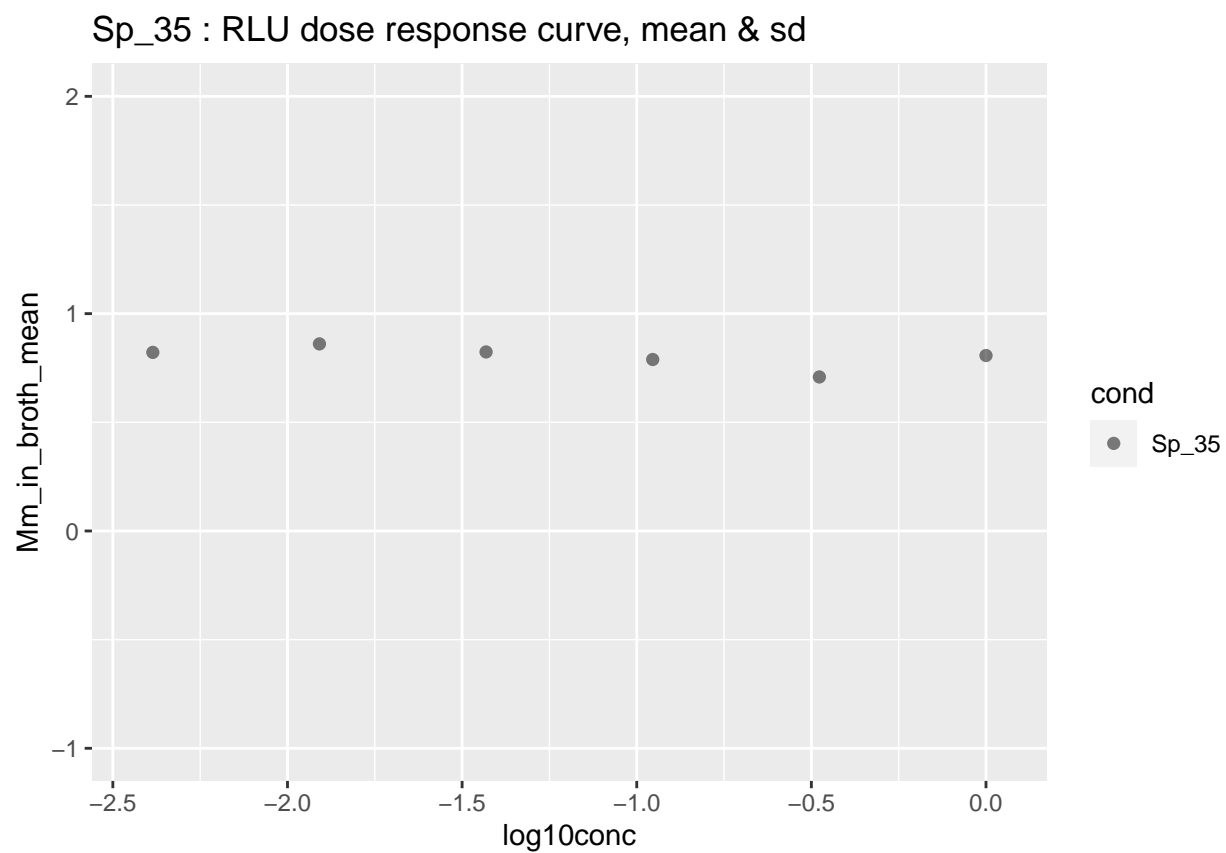


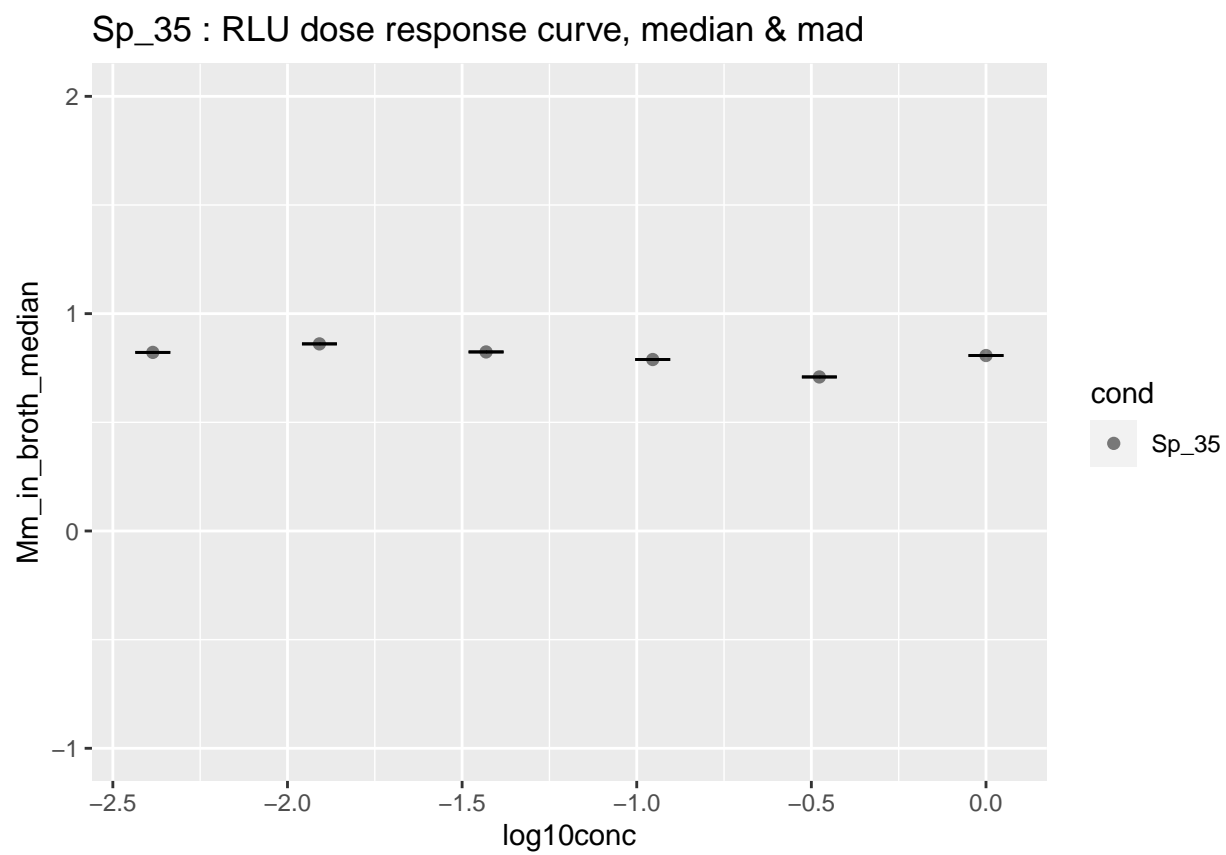


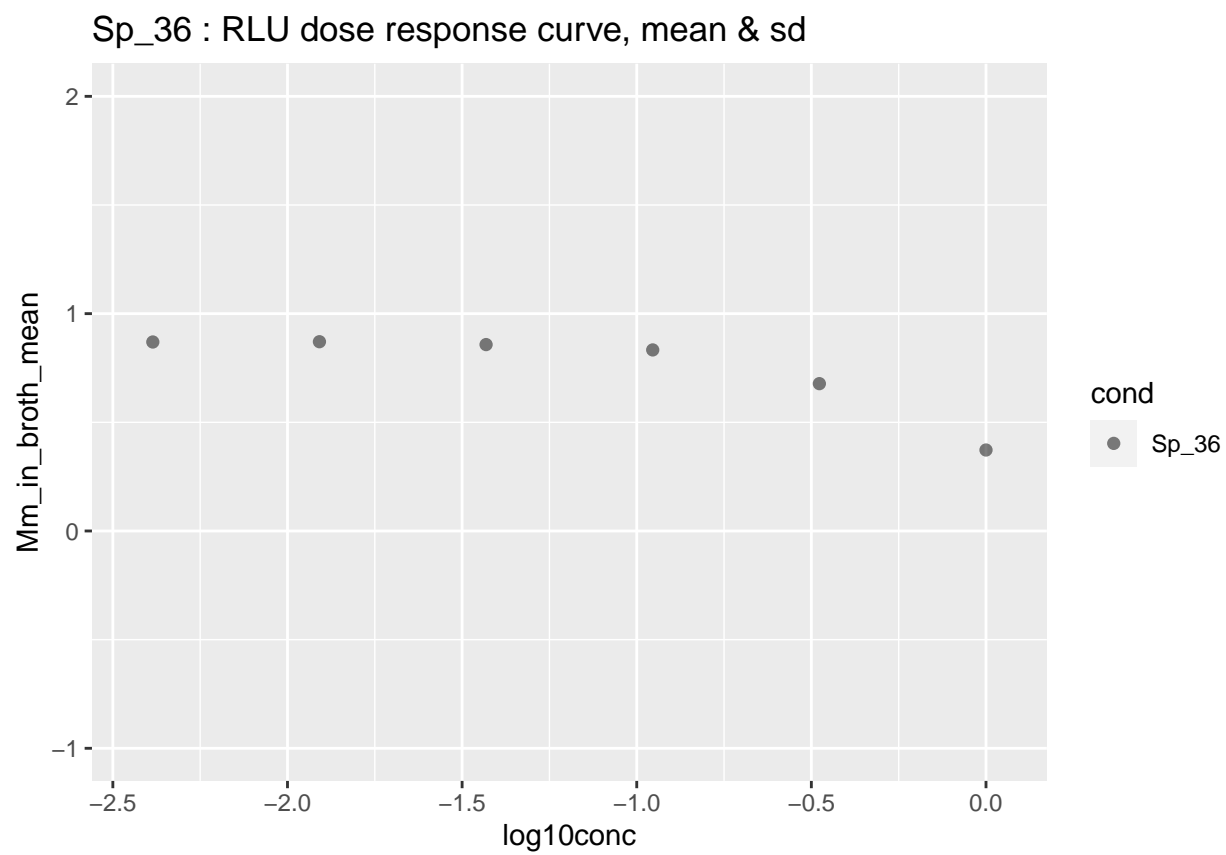


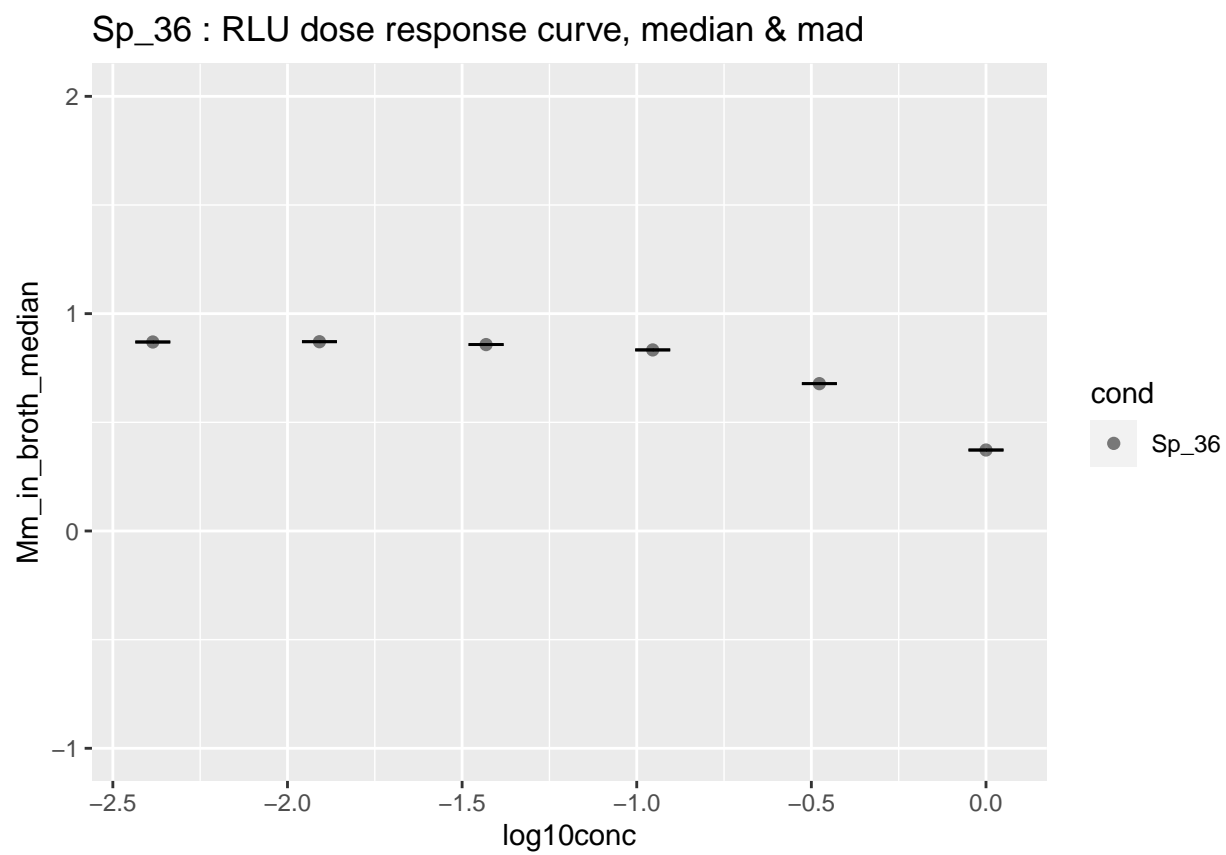
Sb_44 : RLU dose response curve, median & mad

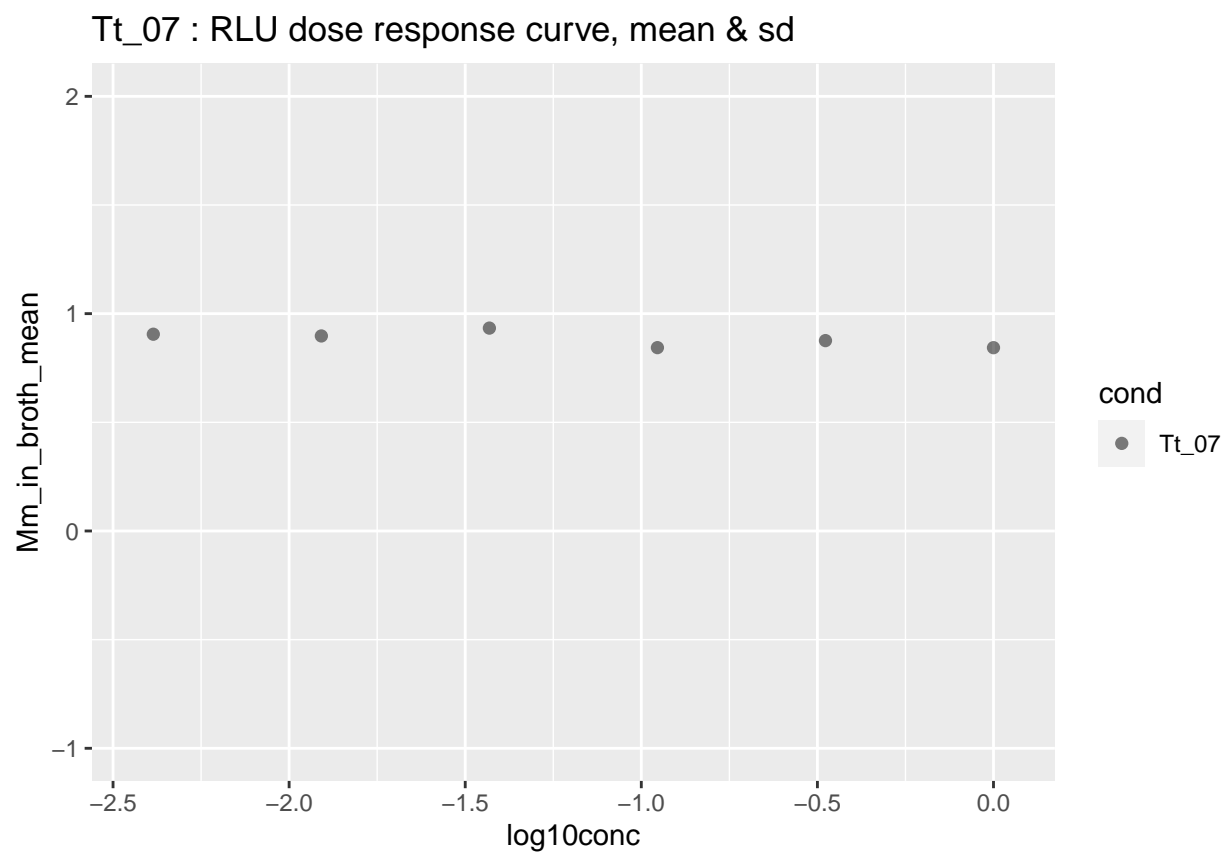


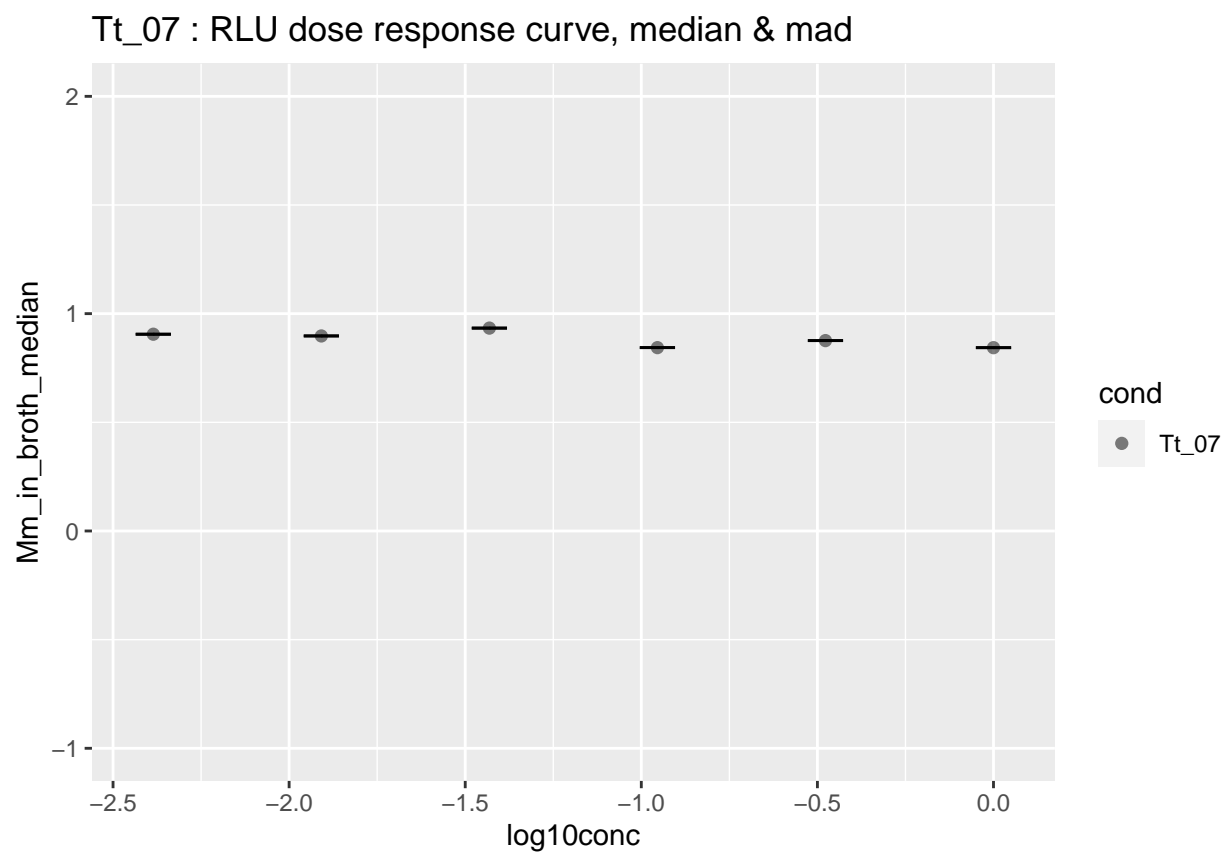




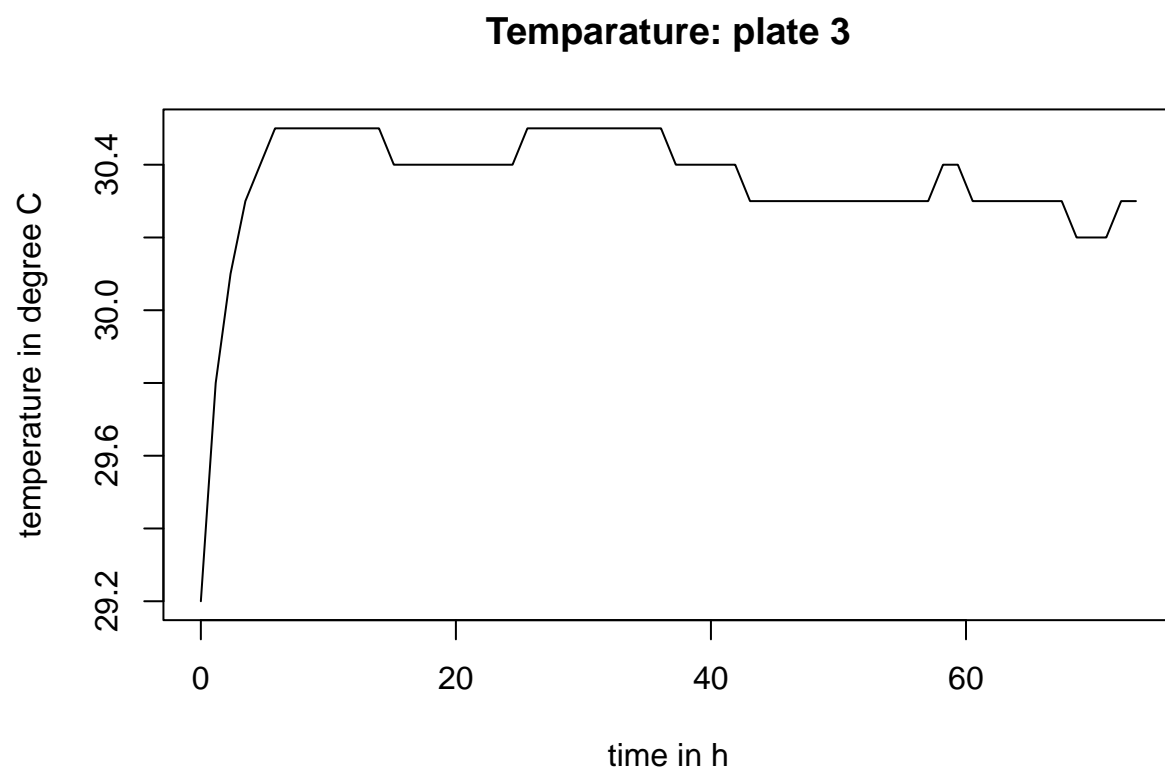






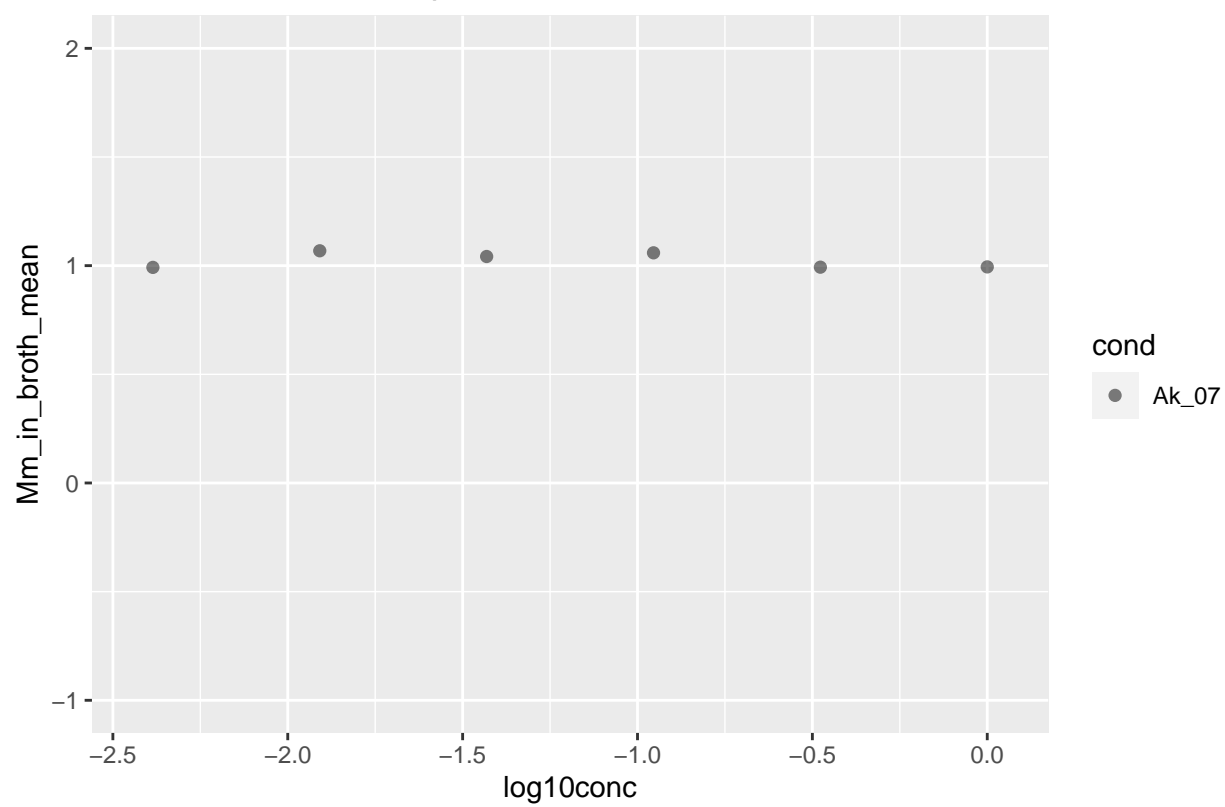


```
## [1] "analysis for plate04.xlsx"
```

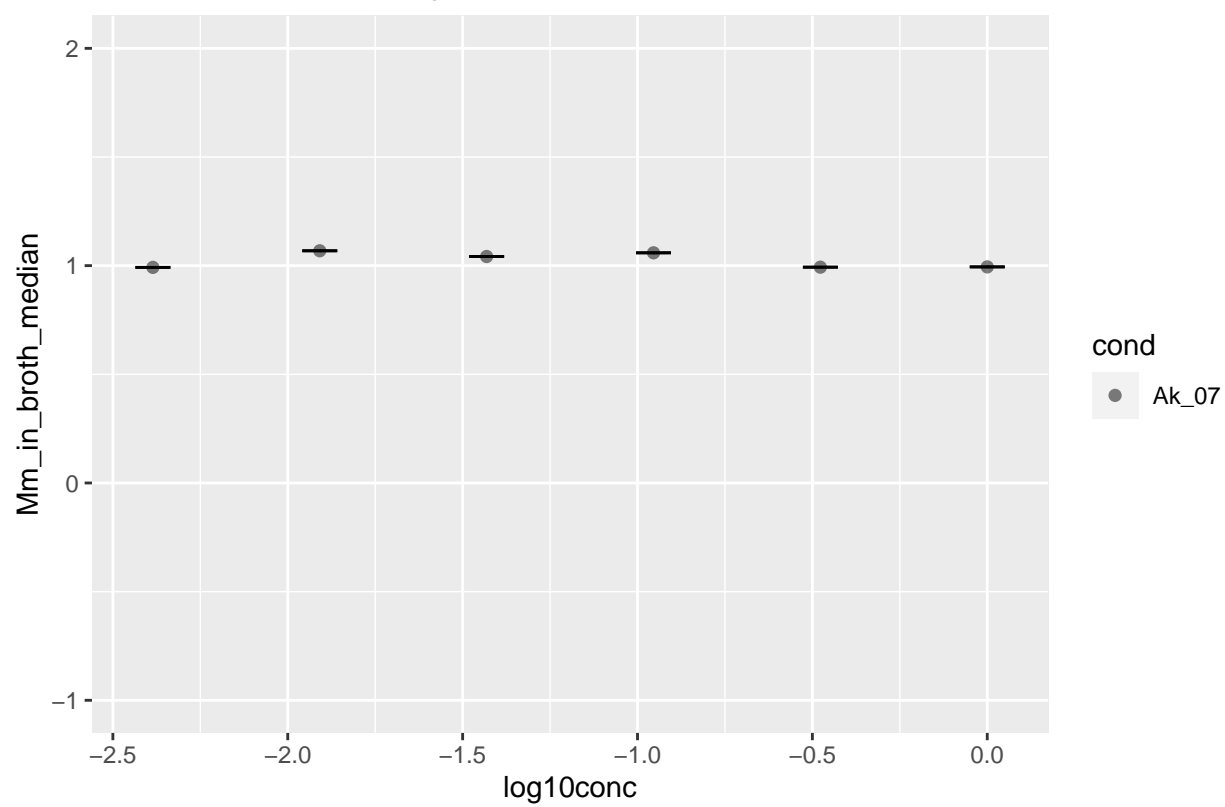


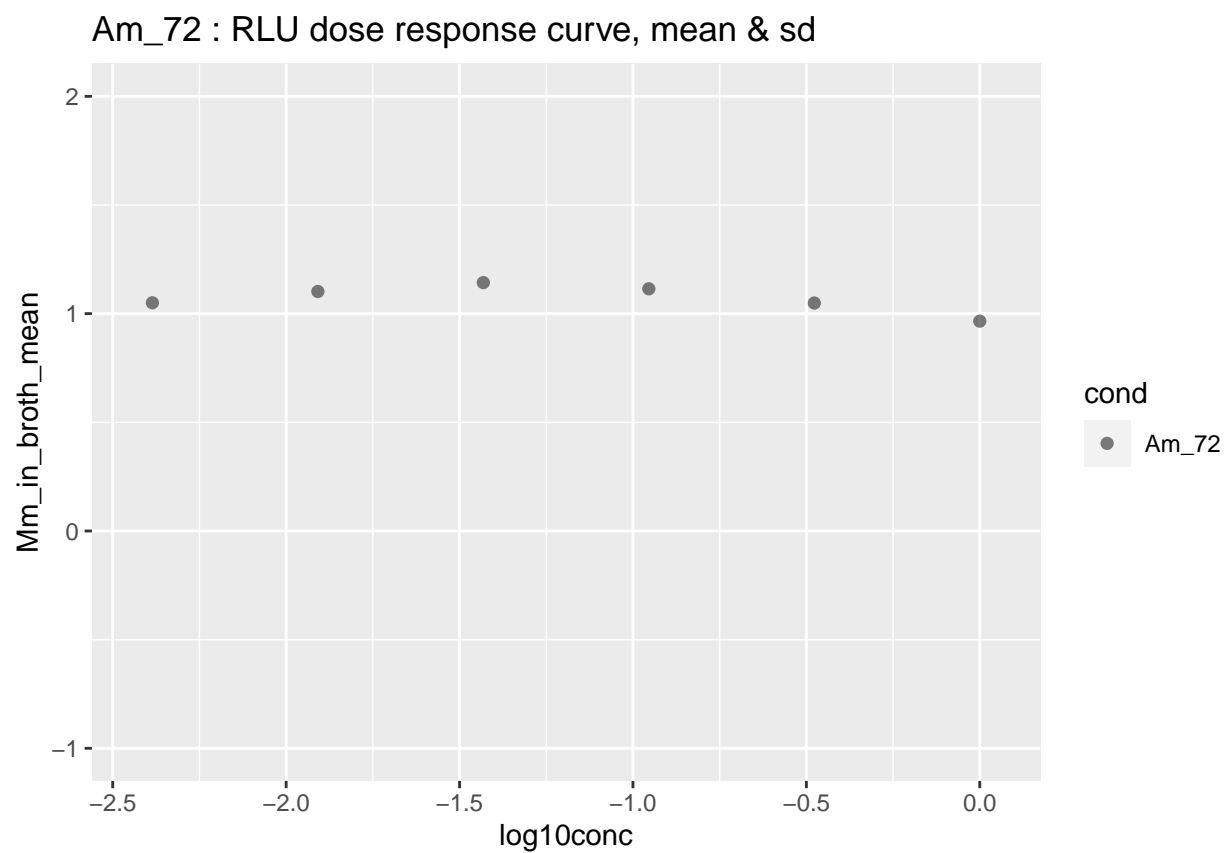
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate04.xlsx, biorep 2 : "  
## [1] 0.79  
## [1] "Dose response curves over all bioreps within this plate"
```

Ak_07 : RLU dose response curve, mean & sd

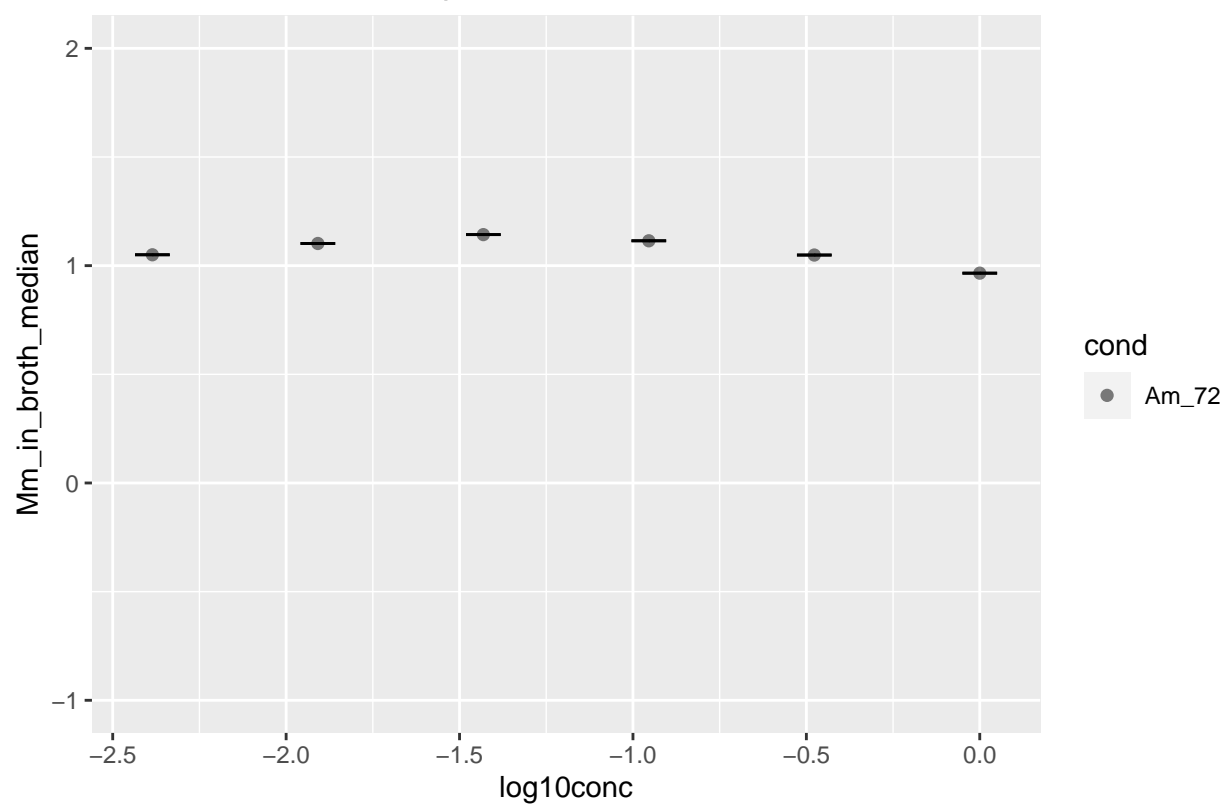


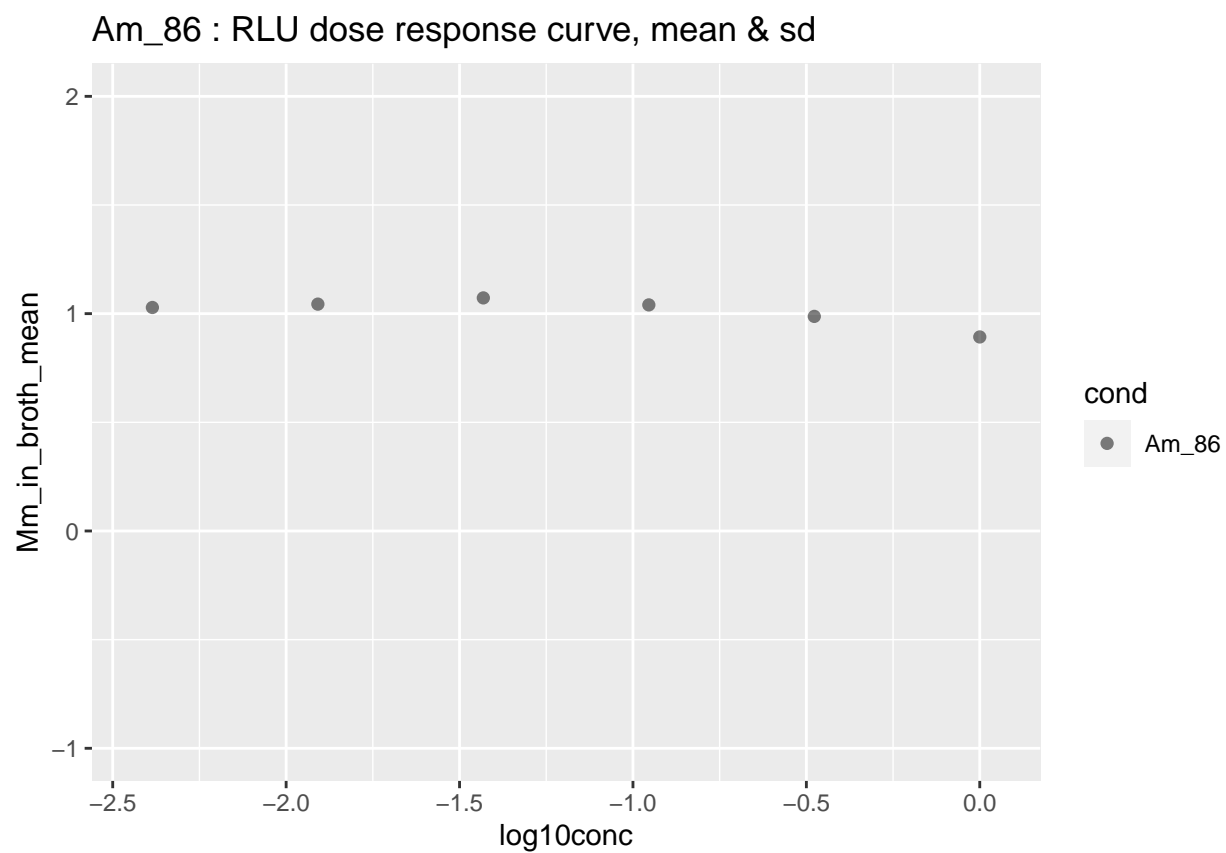
Ak_07 : RLU dose response curve, median & mad



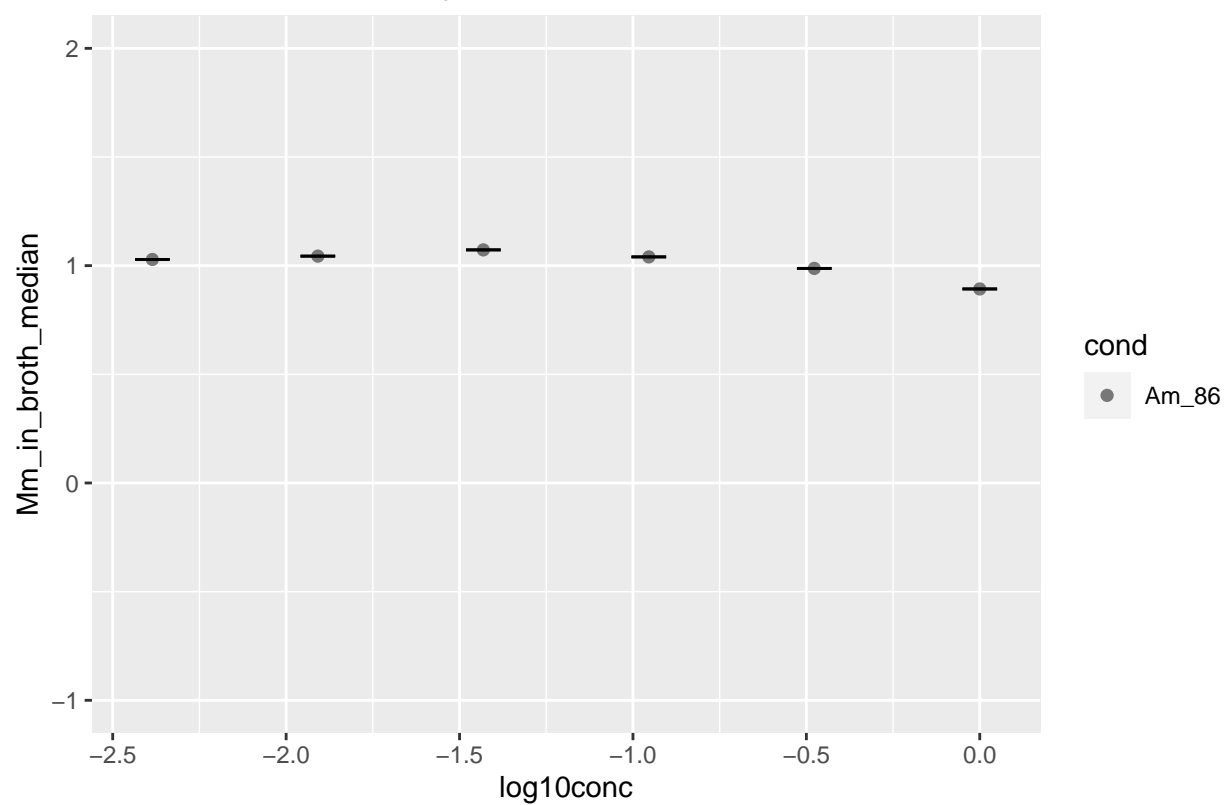


Am_72 : RLU dose response curve, median & mad

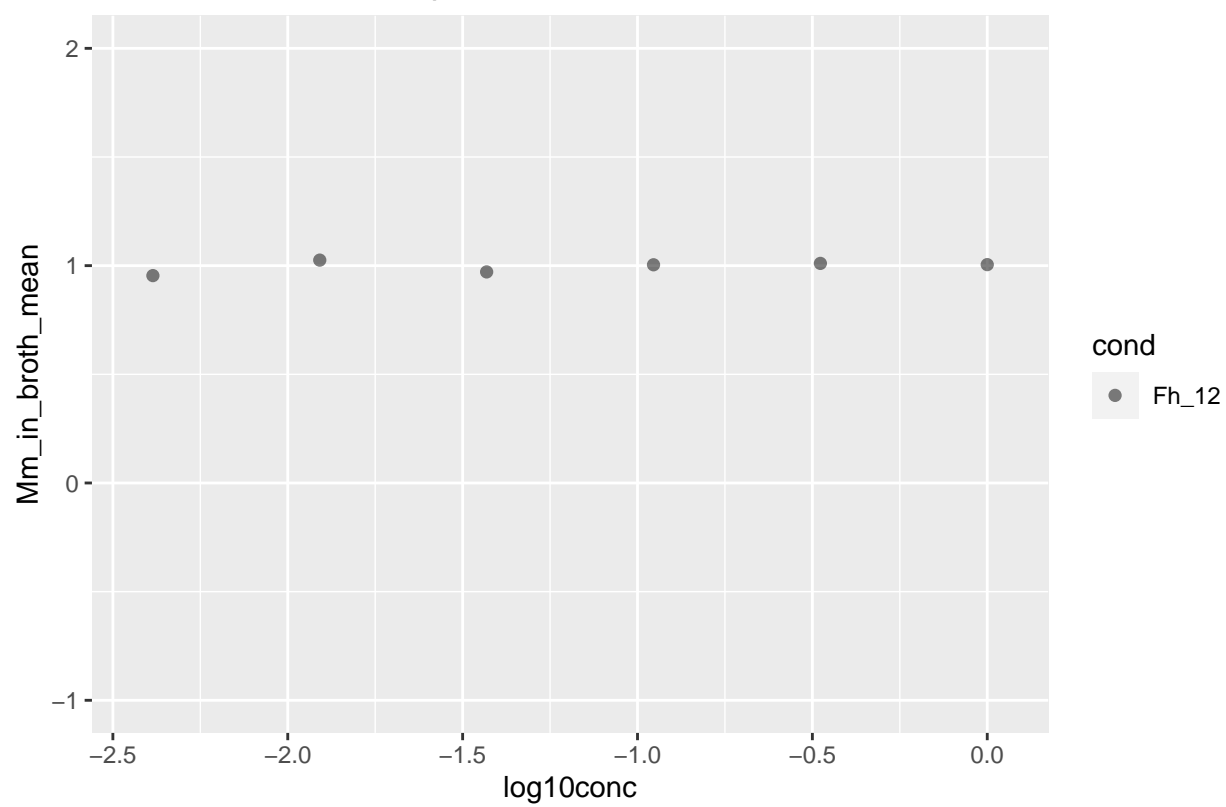




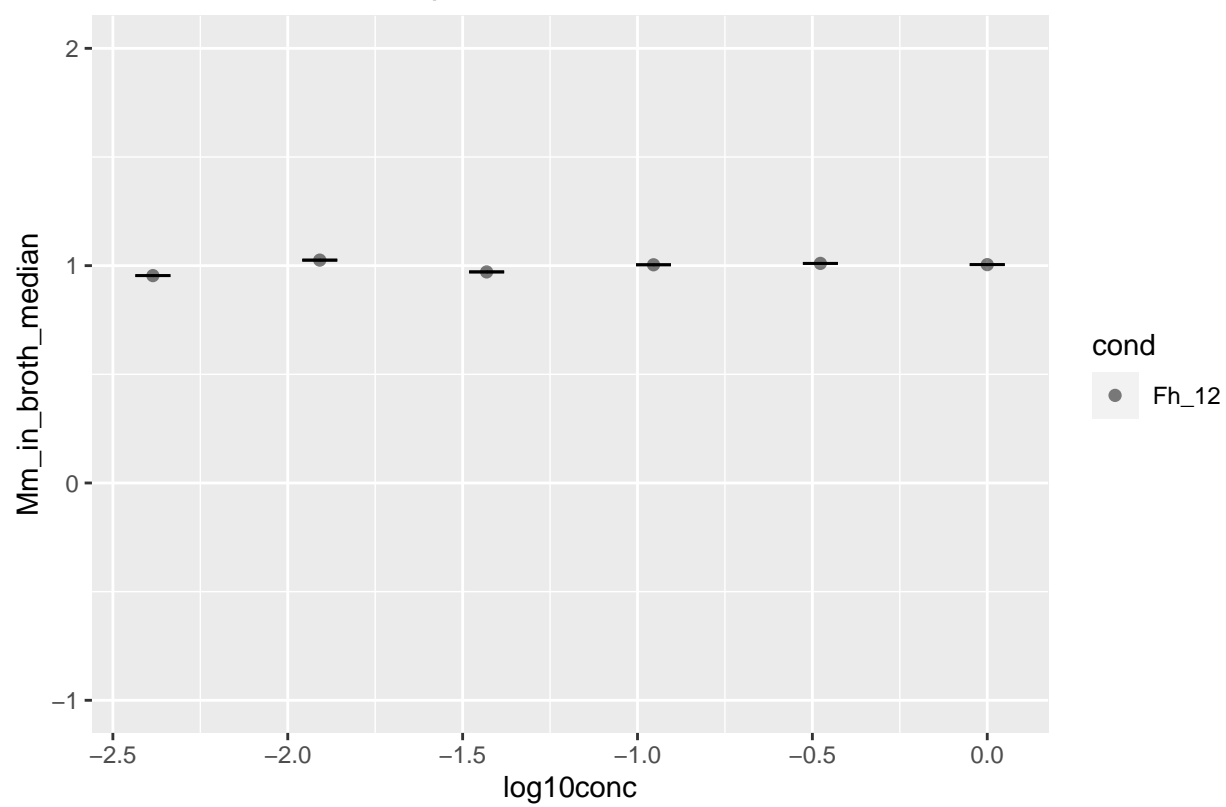
Am_86 : RLU dose response curve, median & mad

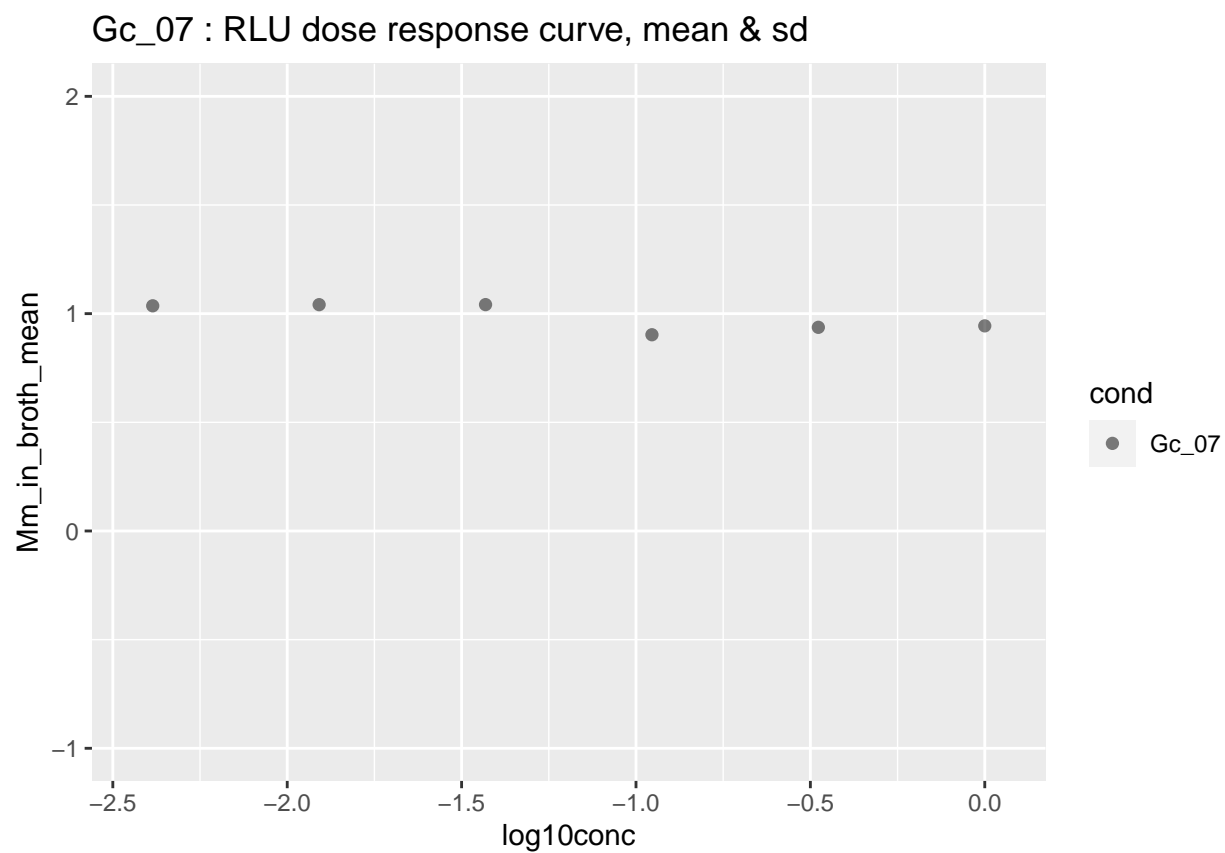


Fh_12 : RLU dose response curve, mean & sd

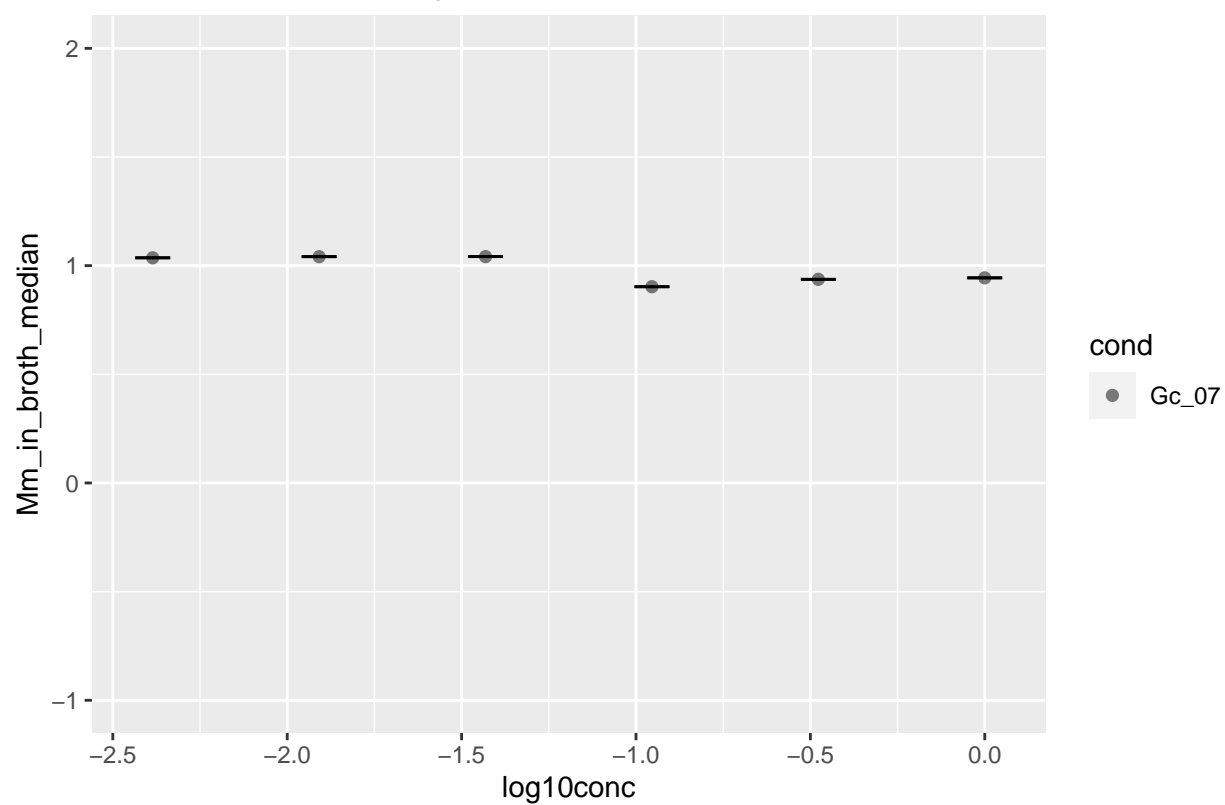


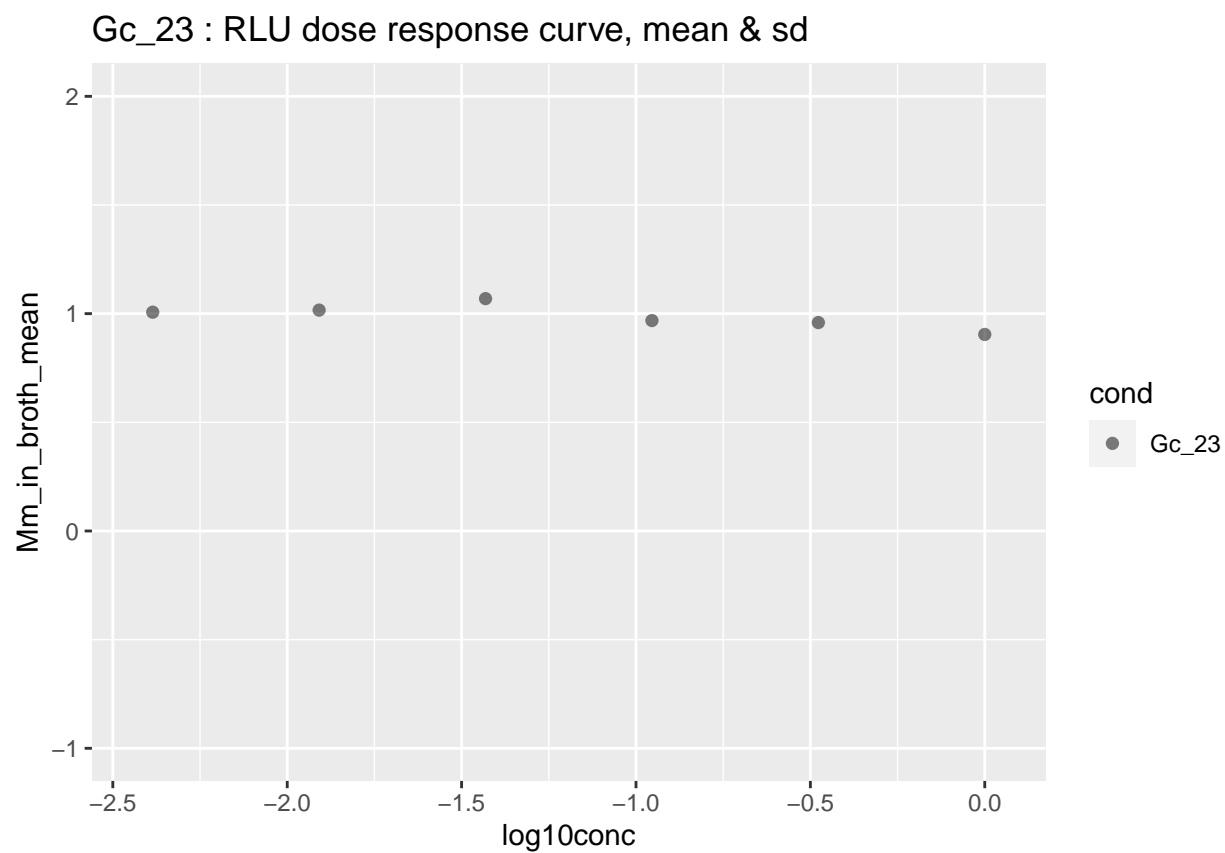
Fh_12 : RLU dose response curve, median & mad

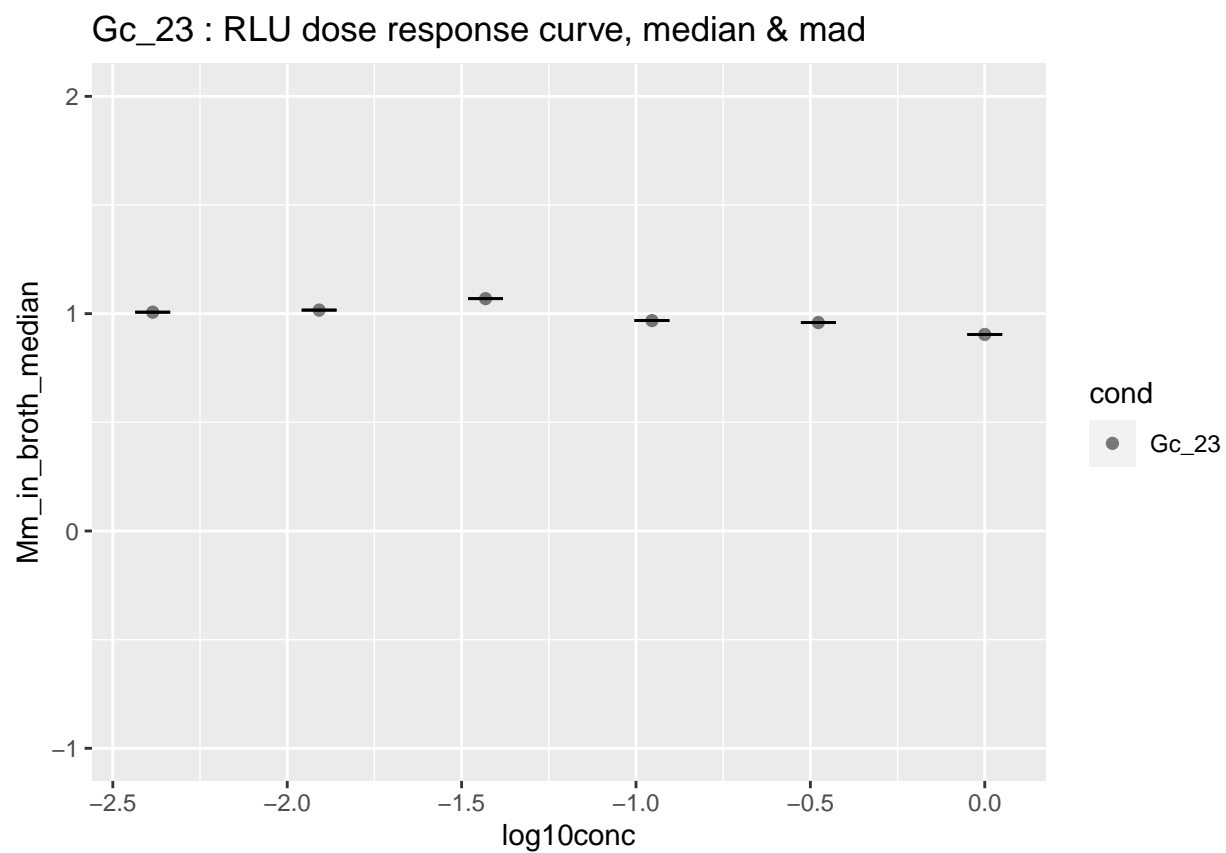


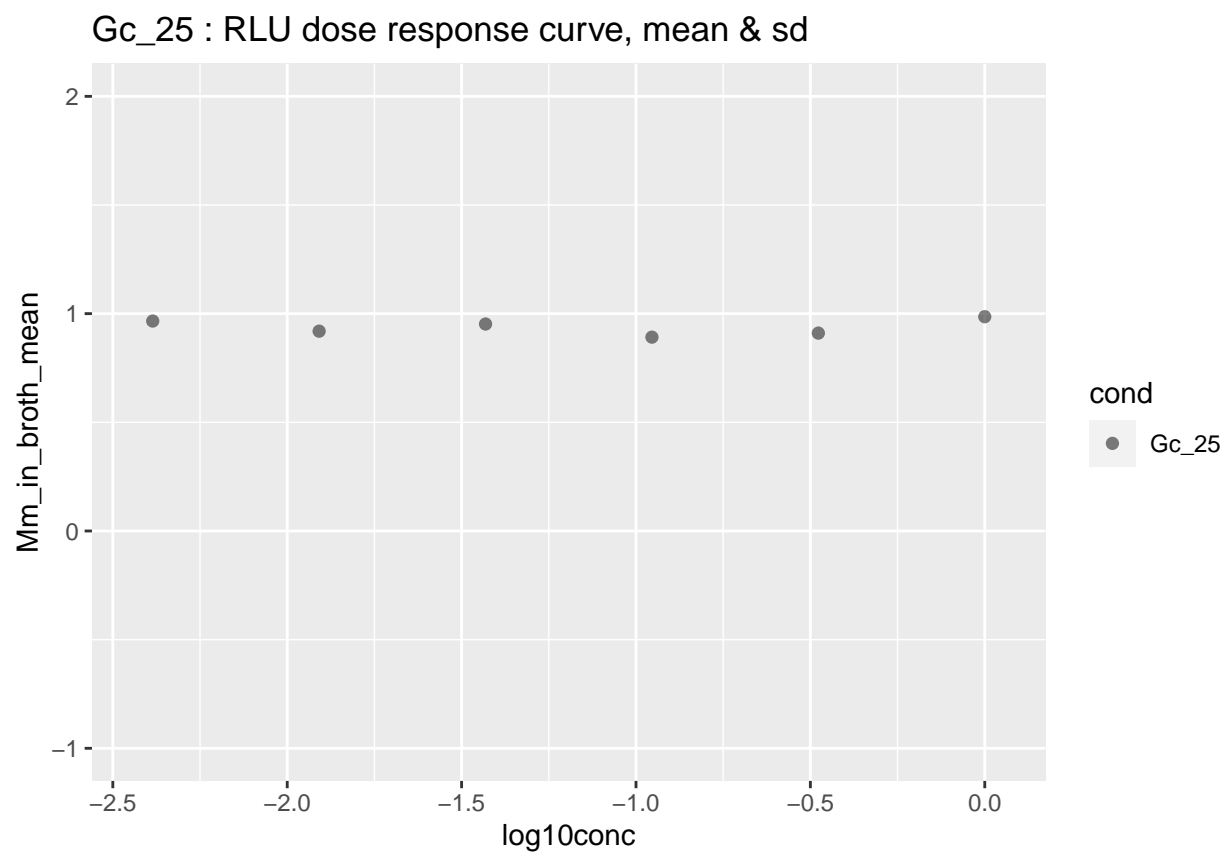


Gc_07 : RLU dose response curve, median & mad

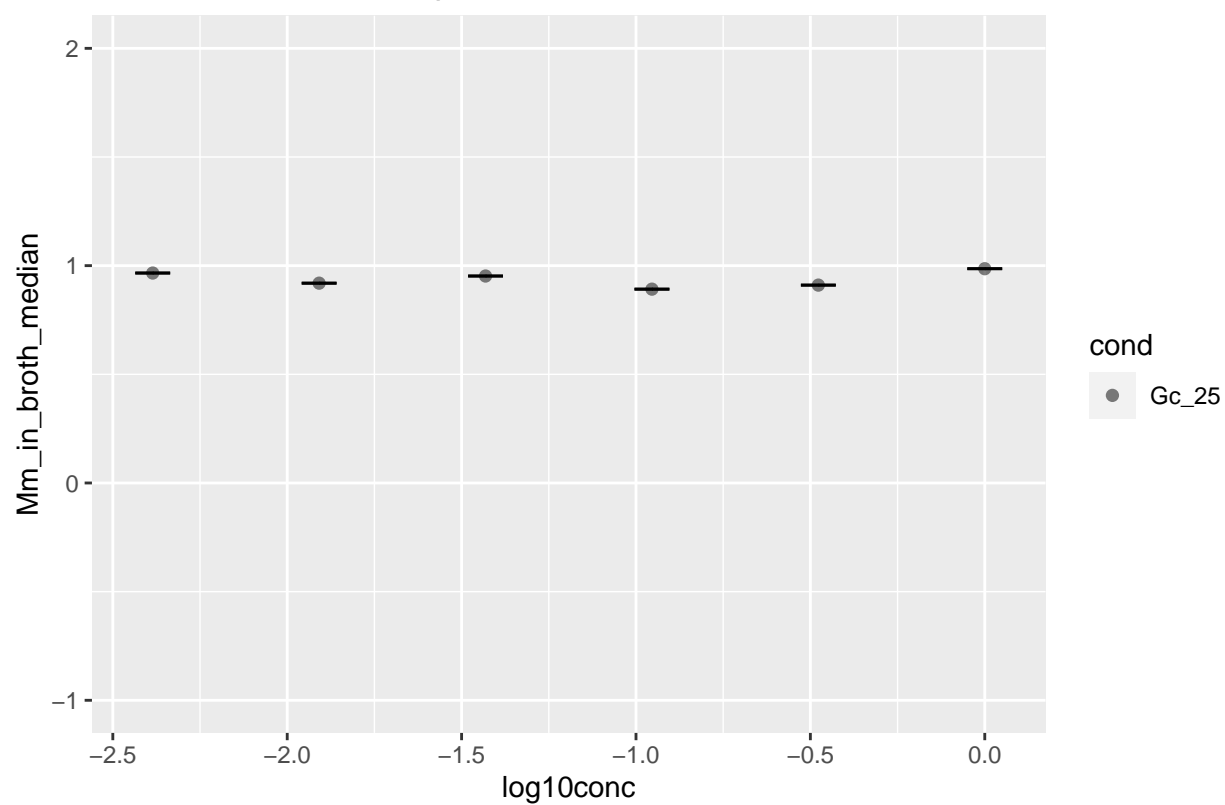


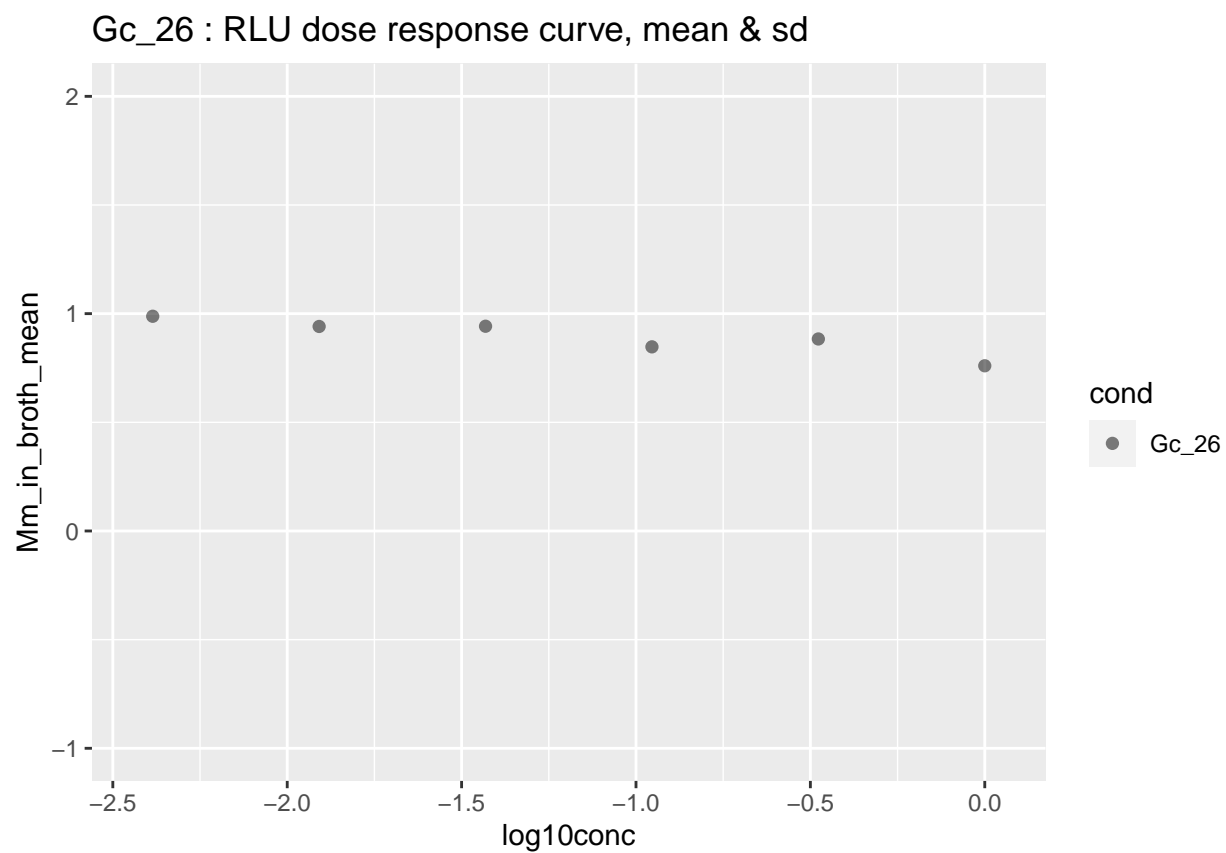


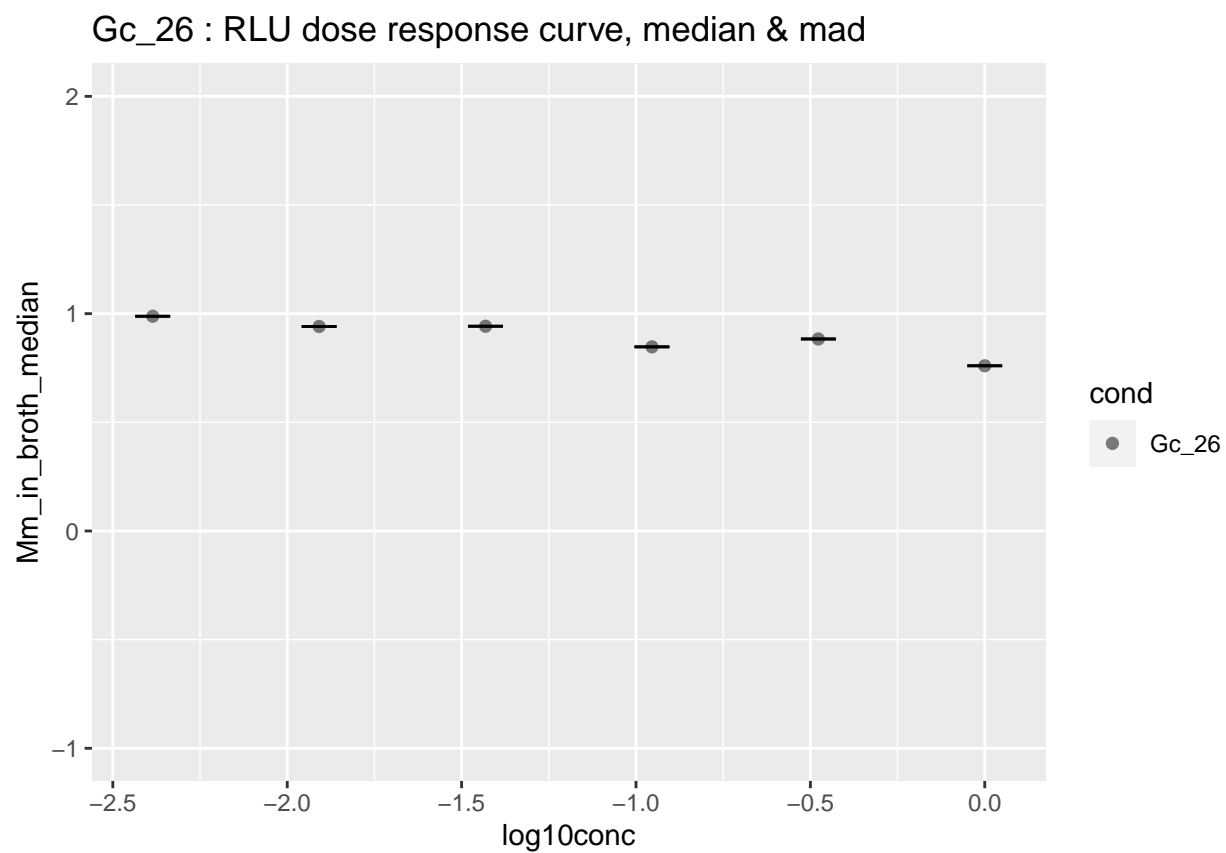


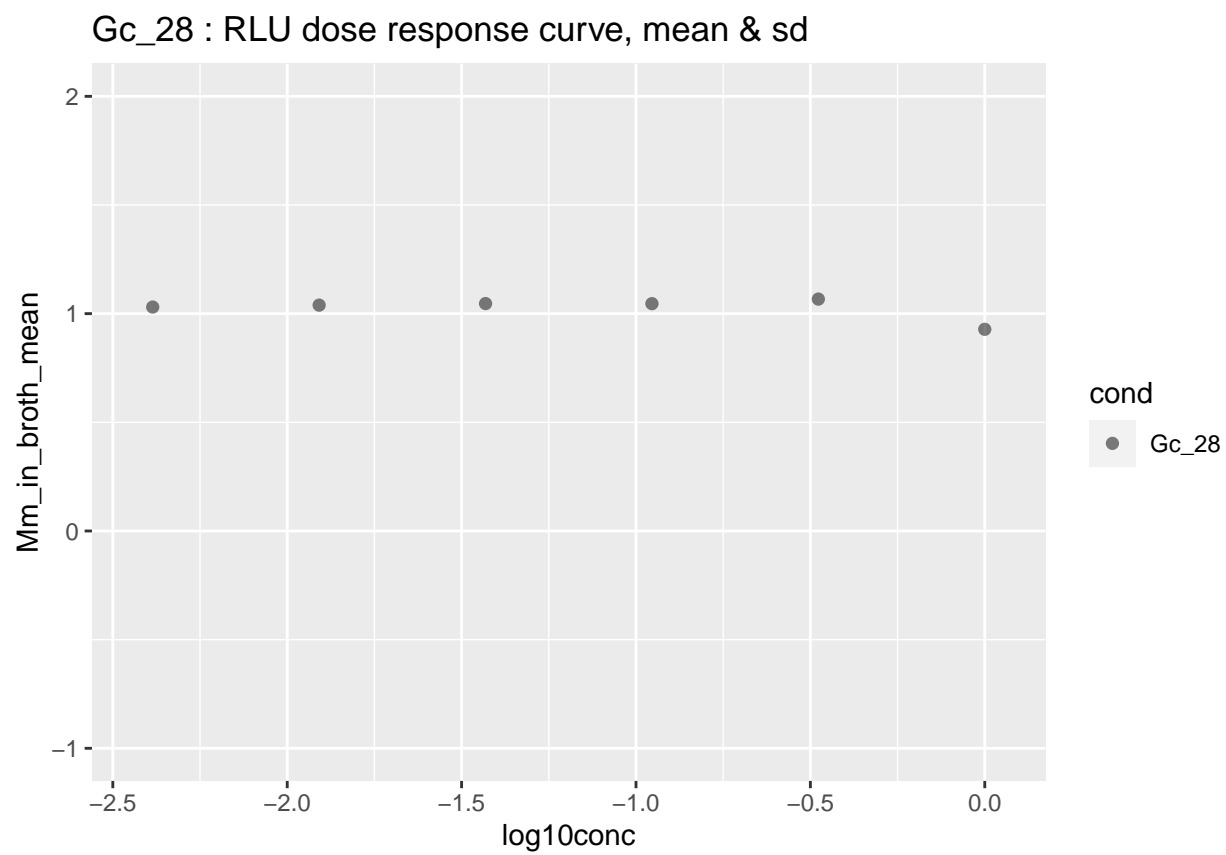


Gc_25 : RLU dose response curve, median & mad

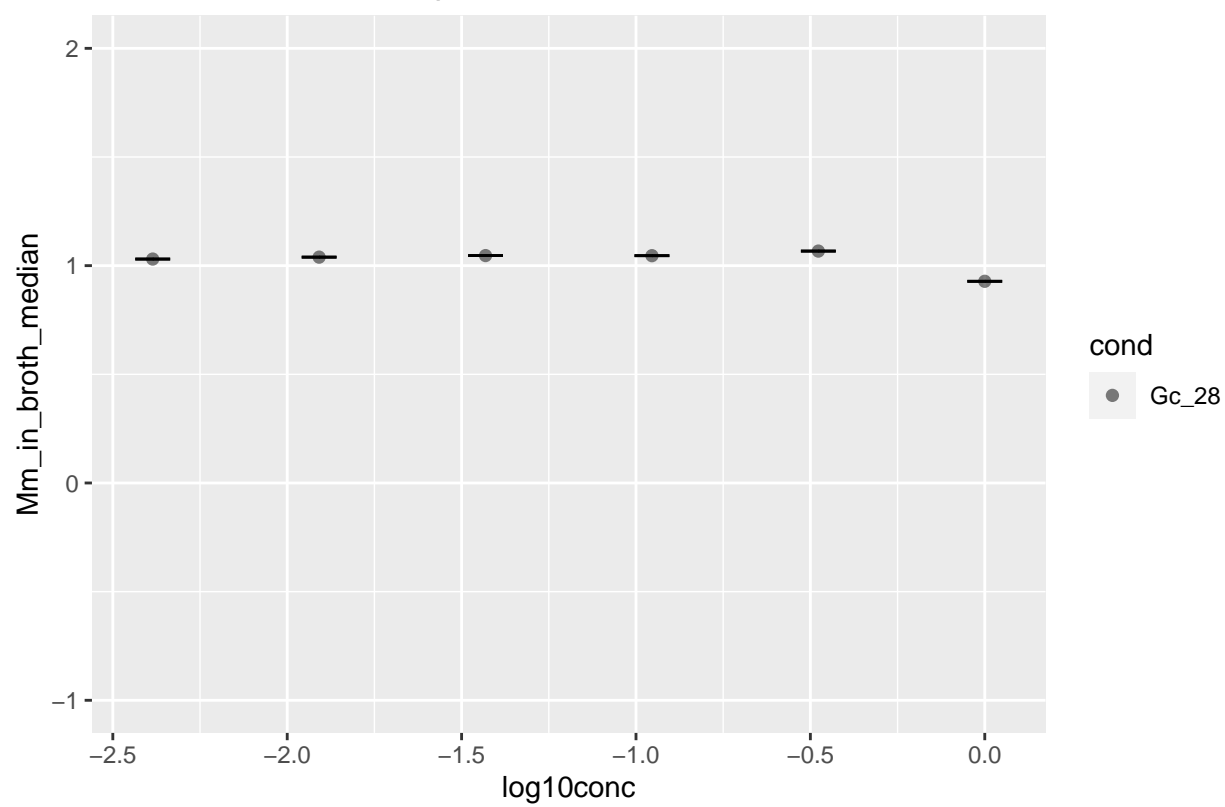


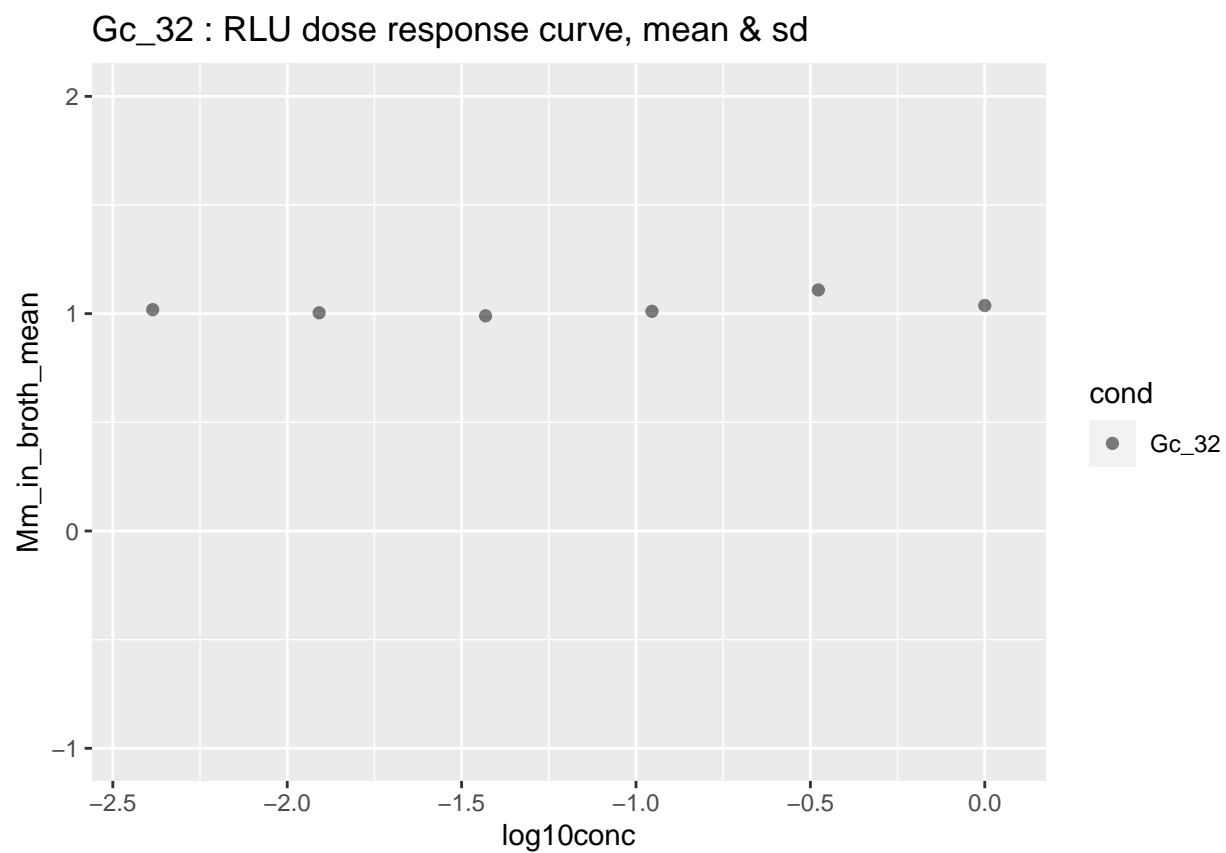




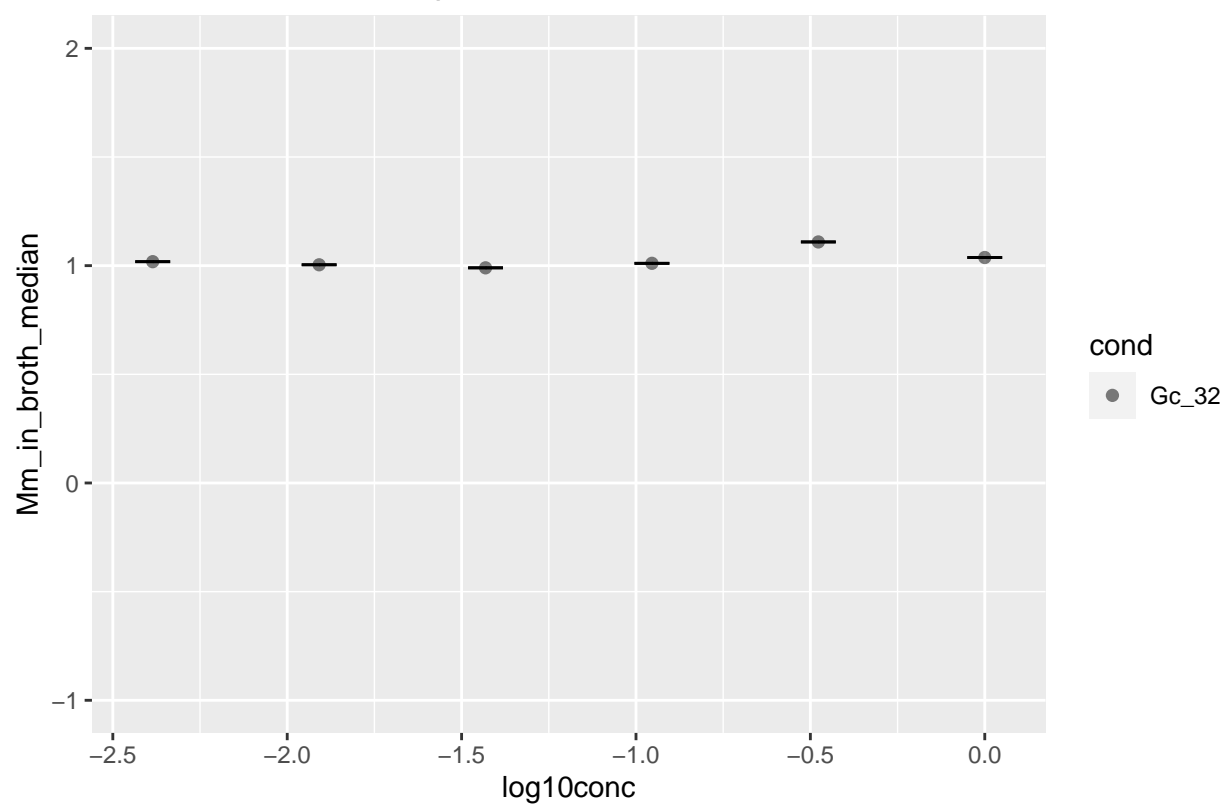


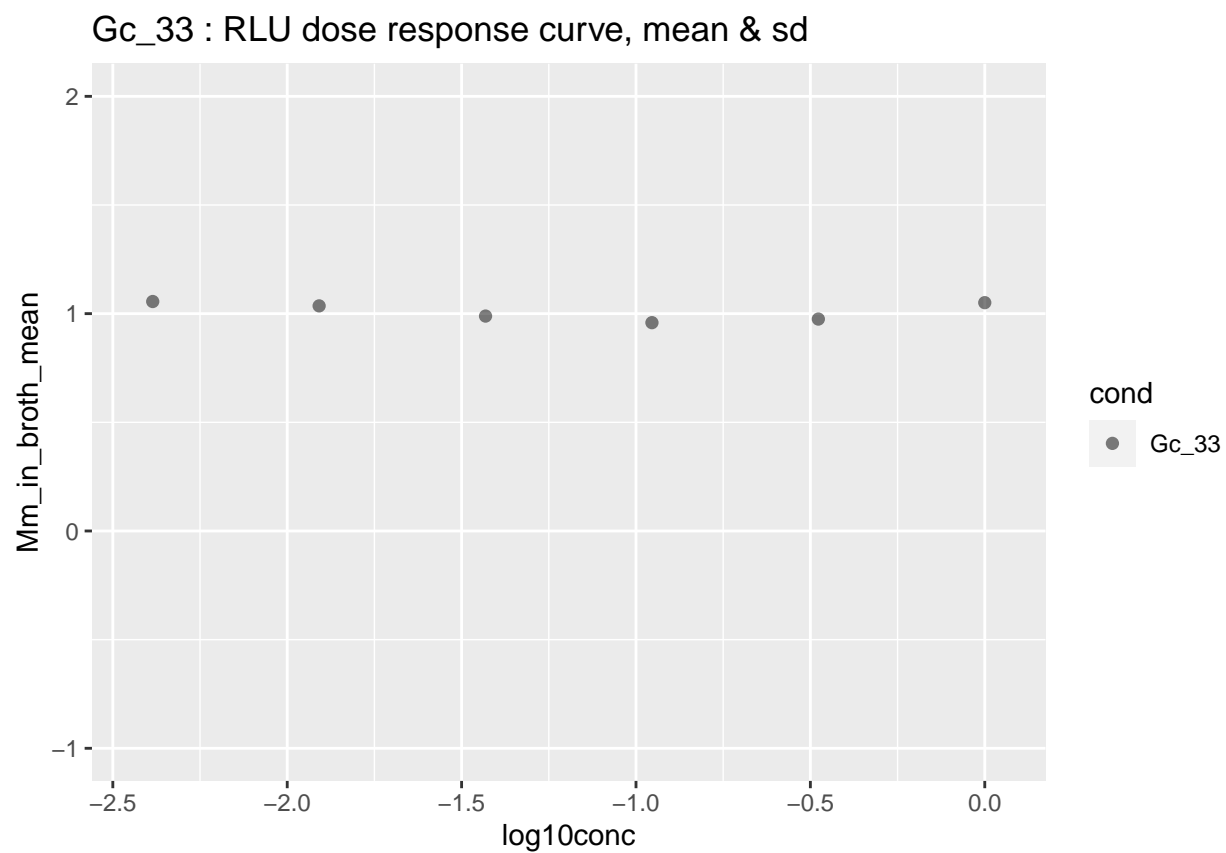
Gc_28 : RLU dose response curve, median & mad



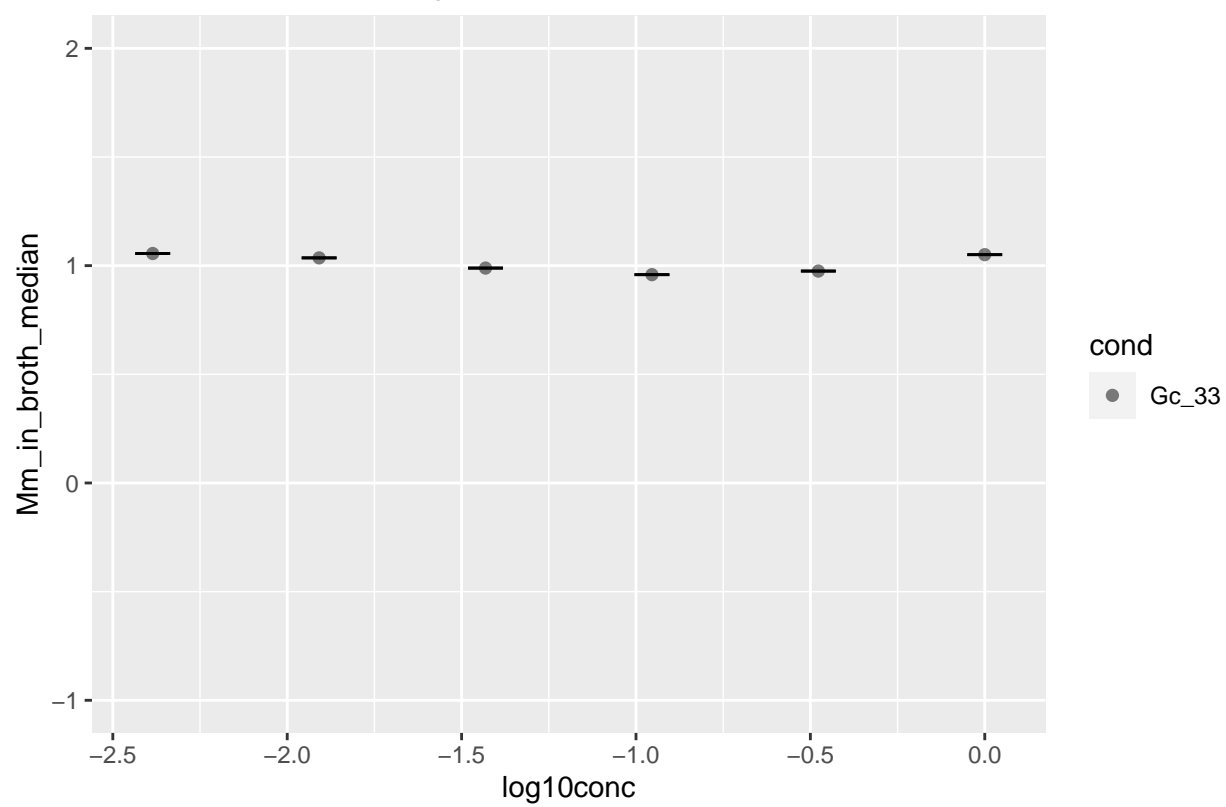


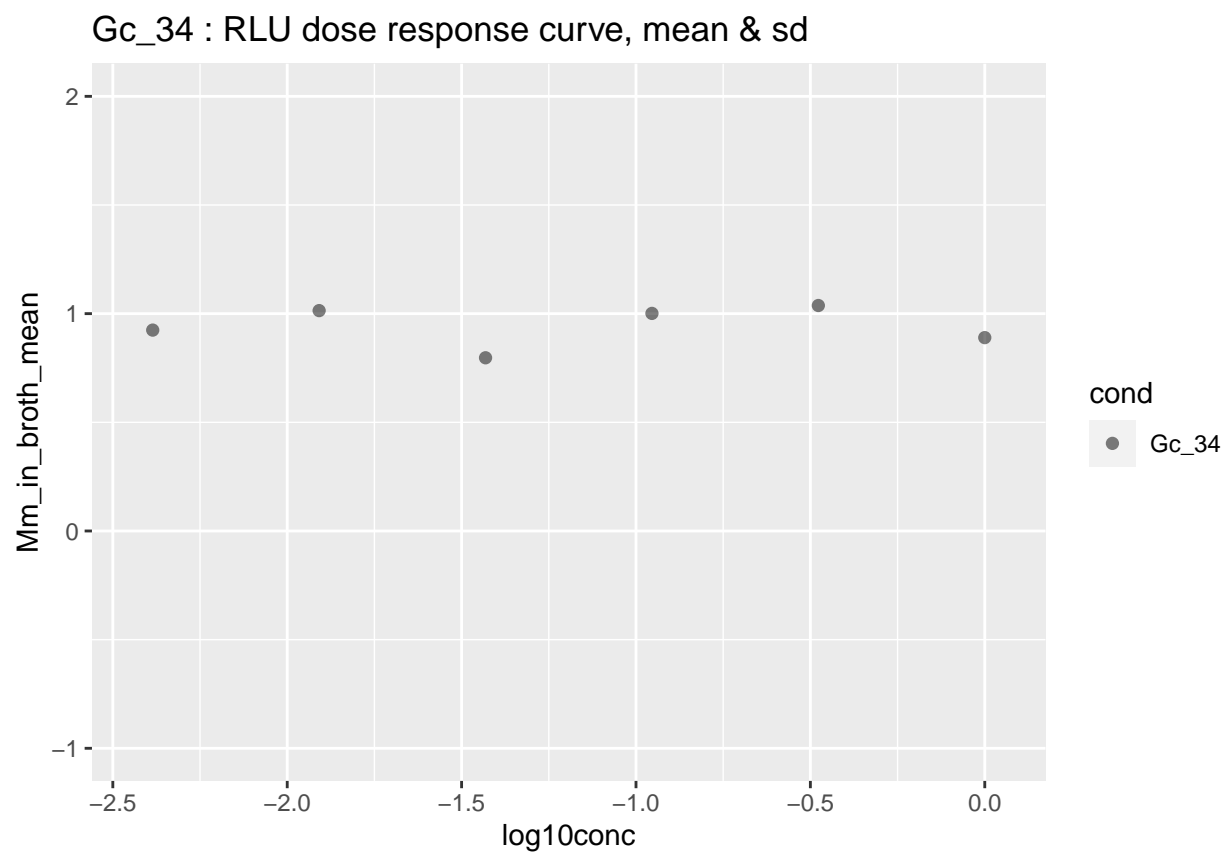
Gc_32 : RLU dose response curve, median & mad



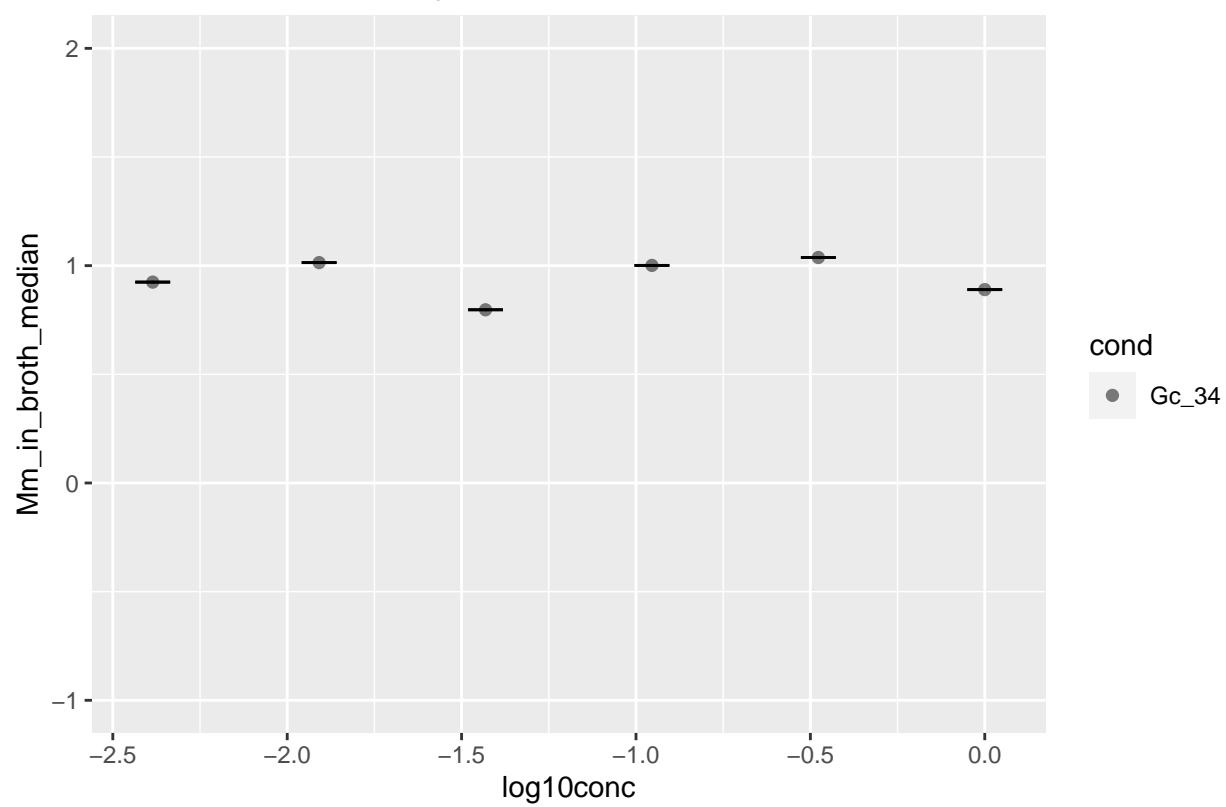


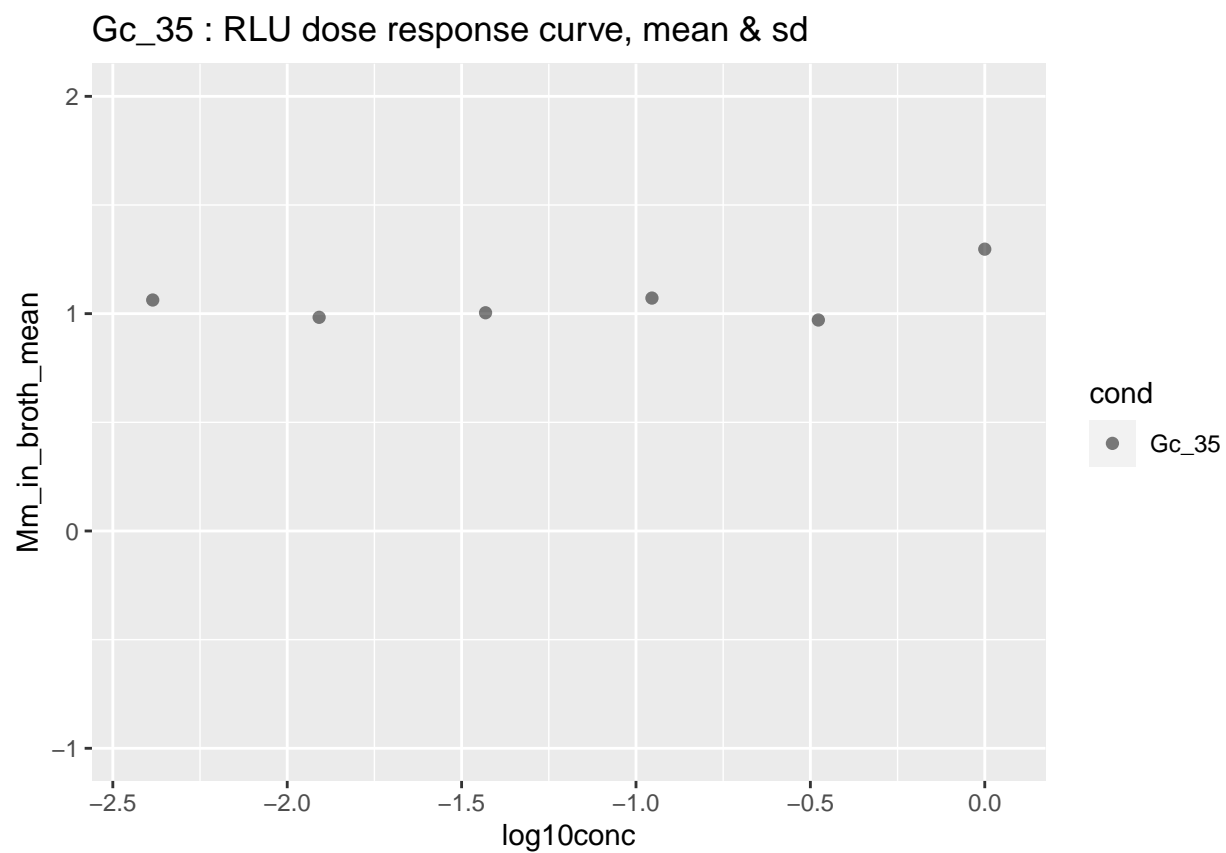
Gc_33 : RLU dose response curve, median & mad



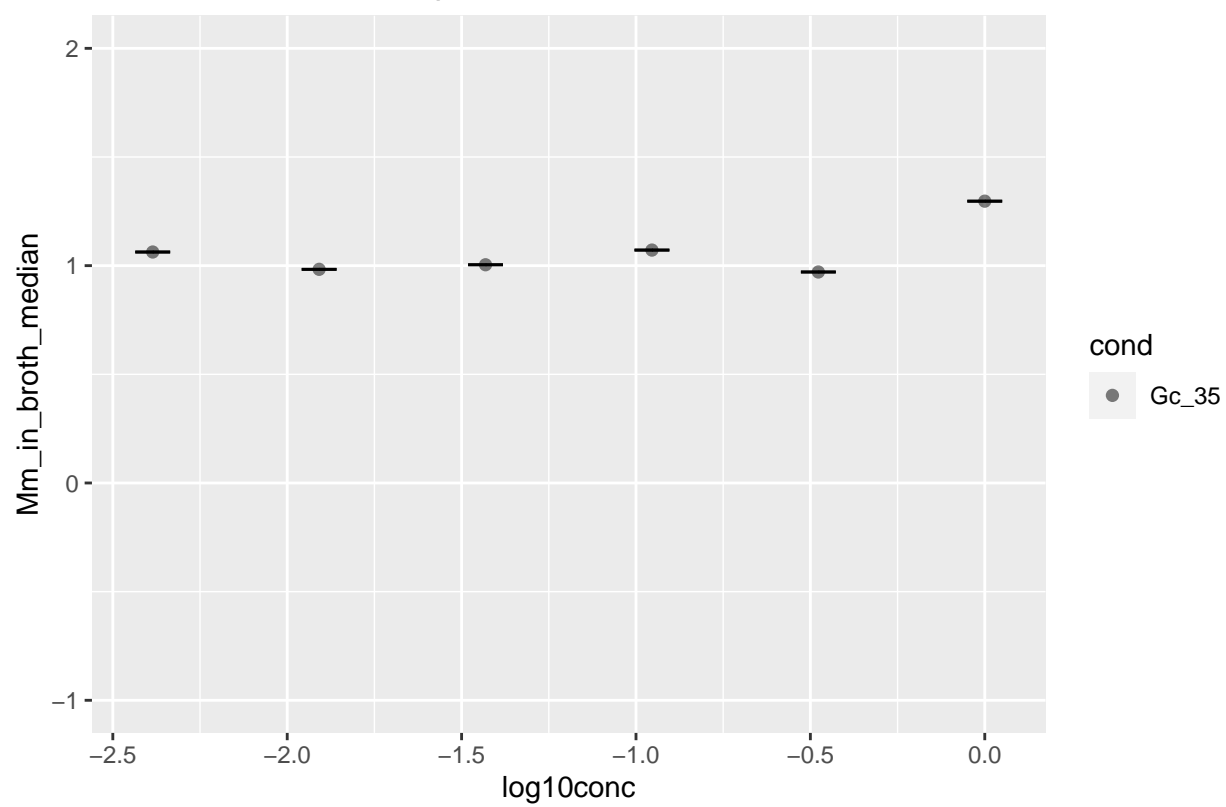


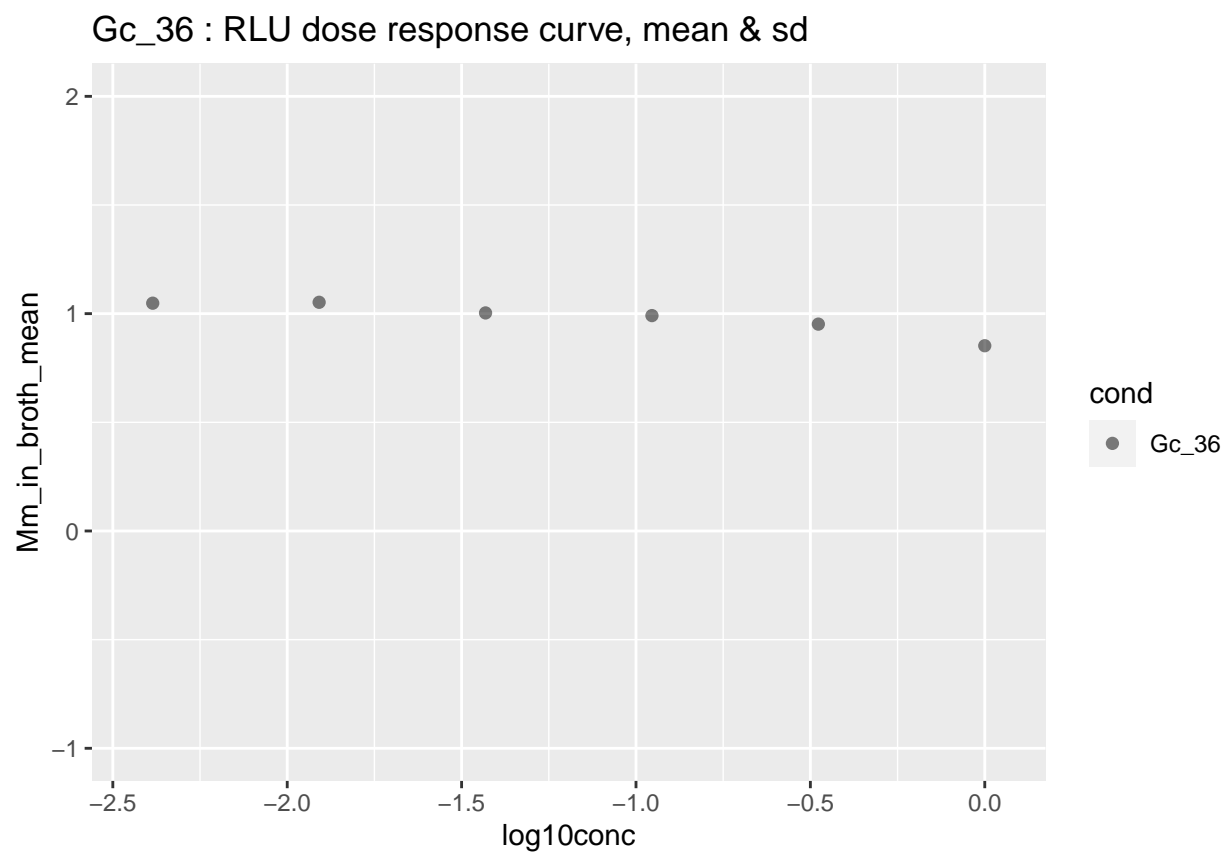
Gc_34 : RLU dose response curve, median & mad



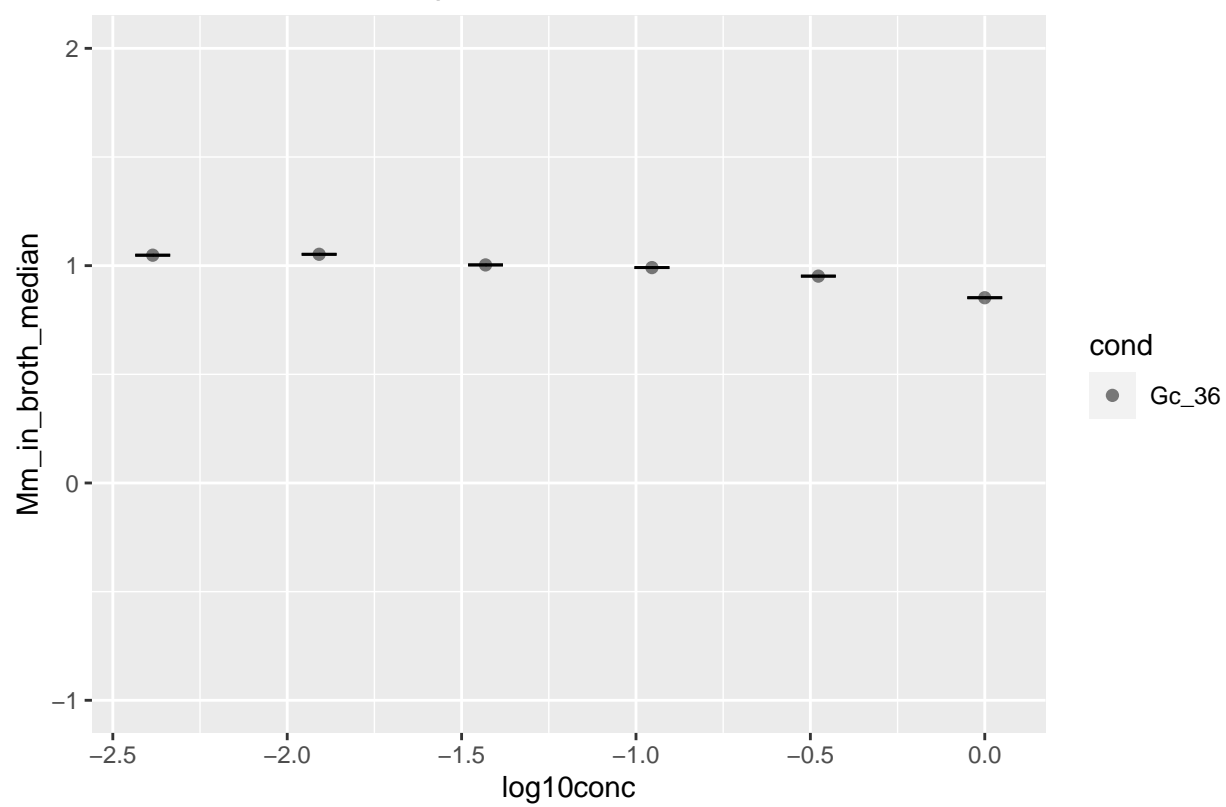


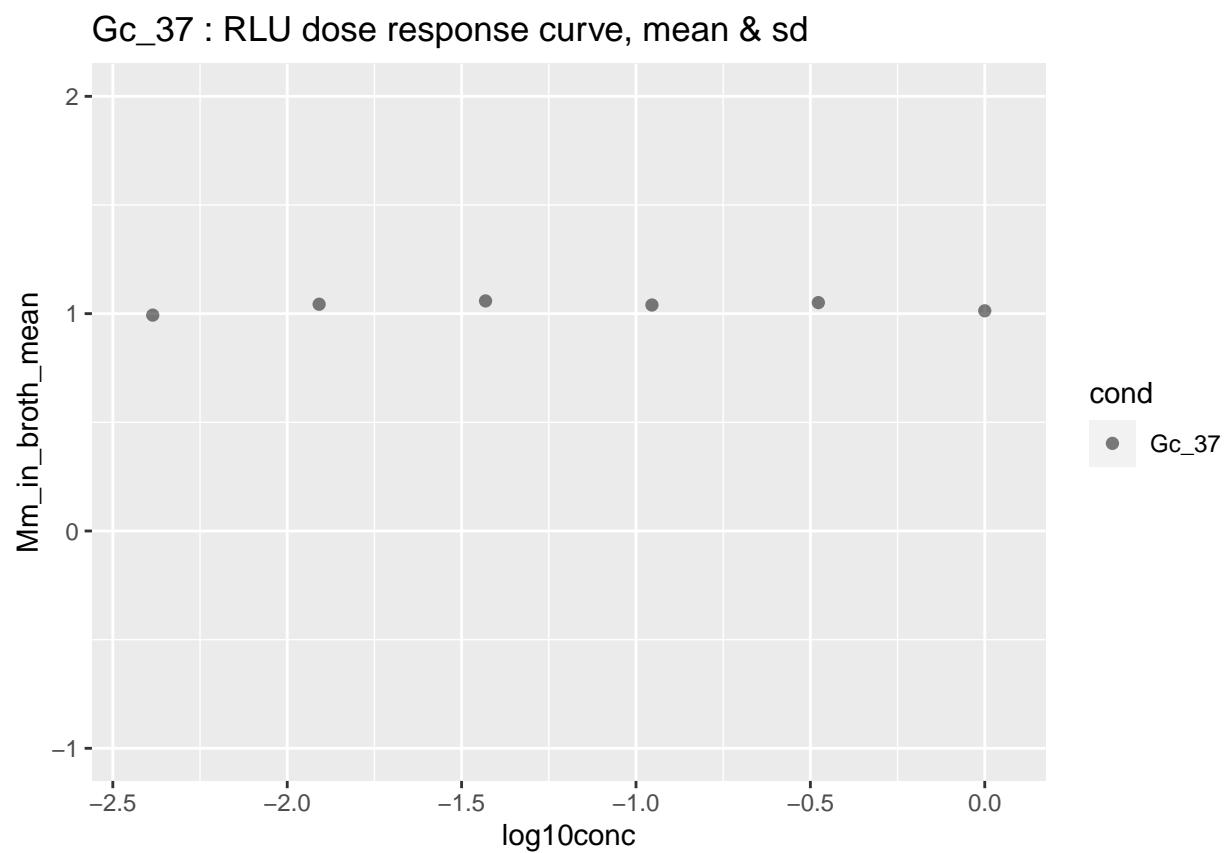
Gc_35 : RLU dose response curve, median & mad



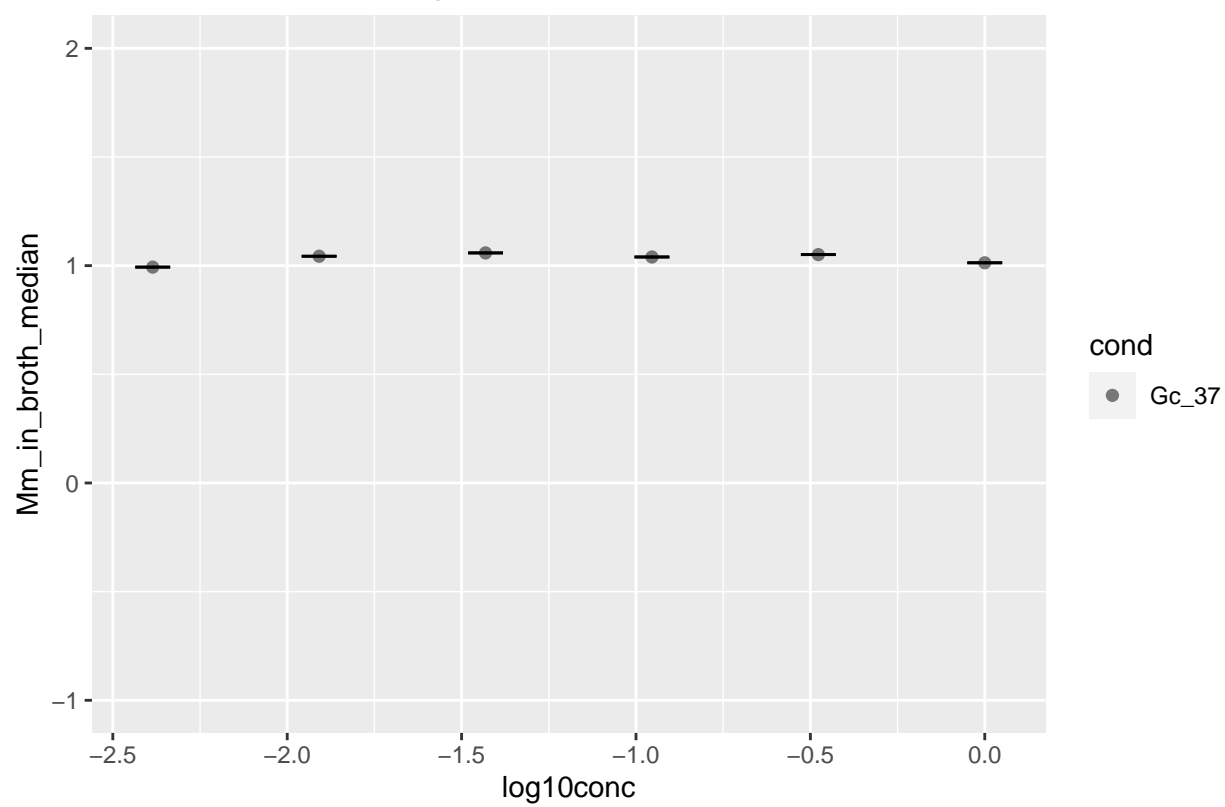


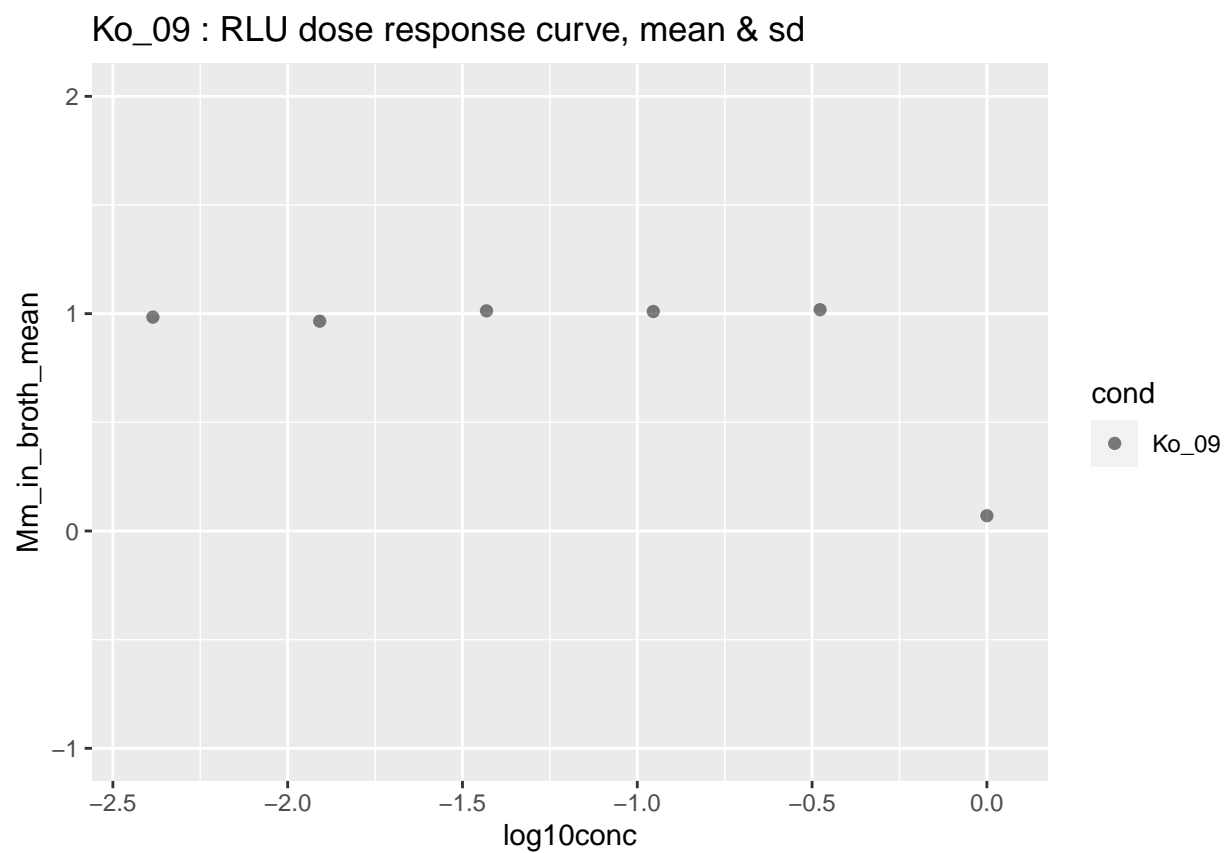
Gc_36 : RLU dose response curve, median & mad

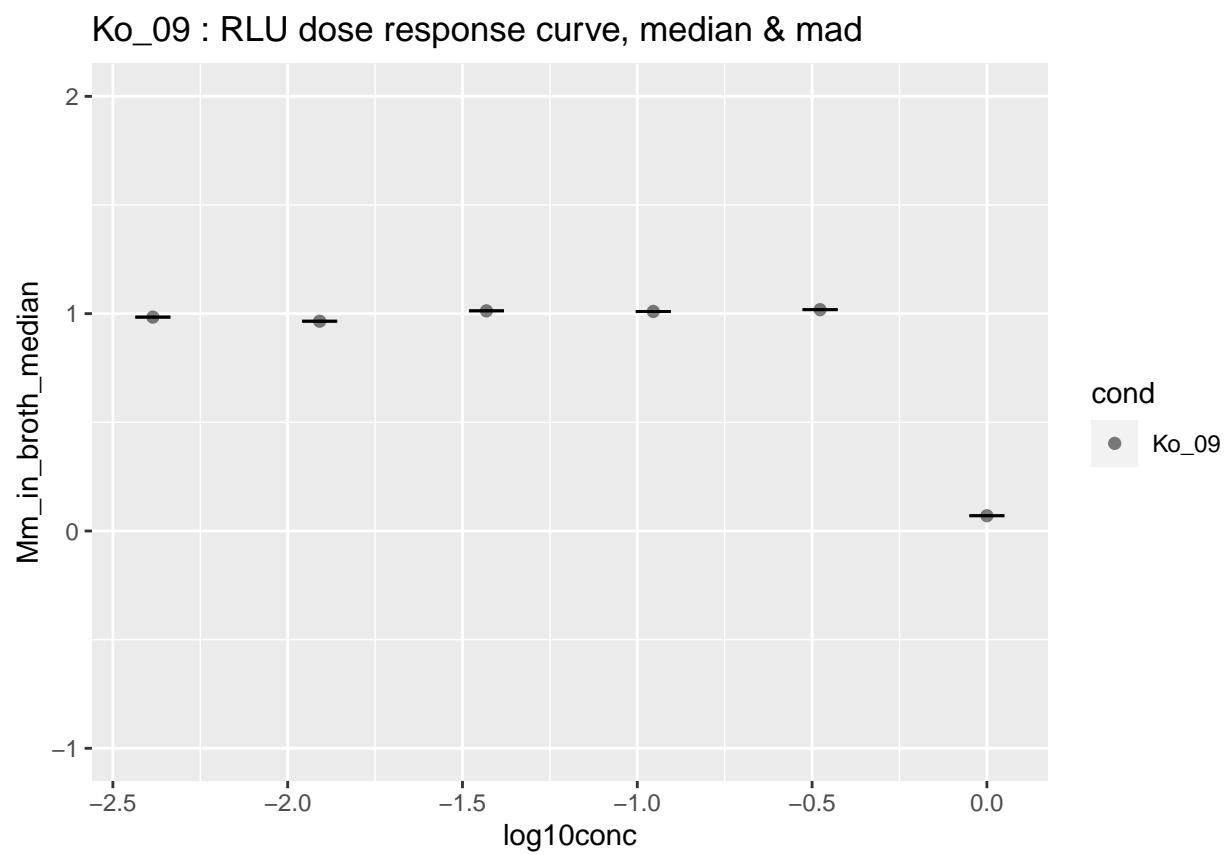


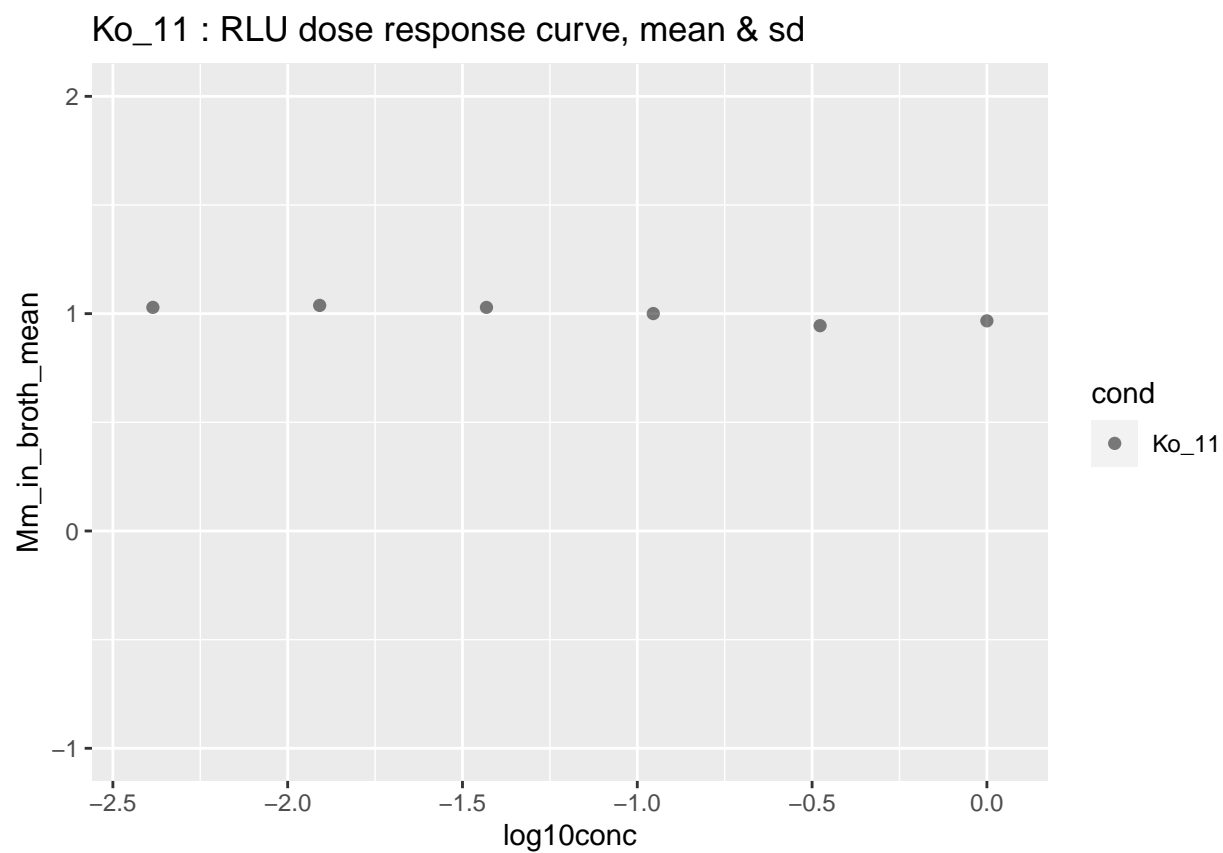


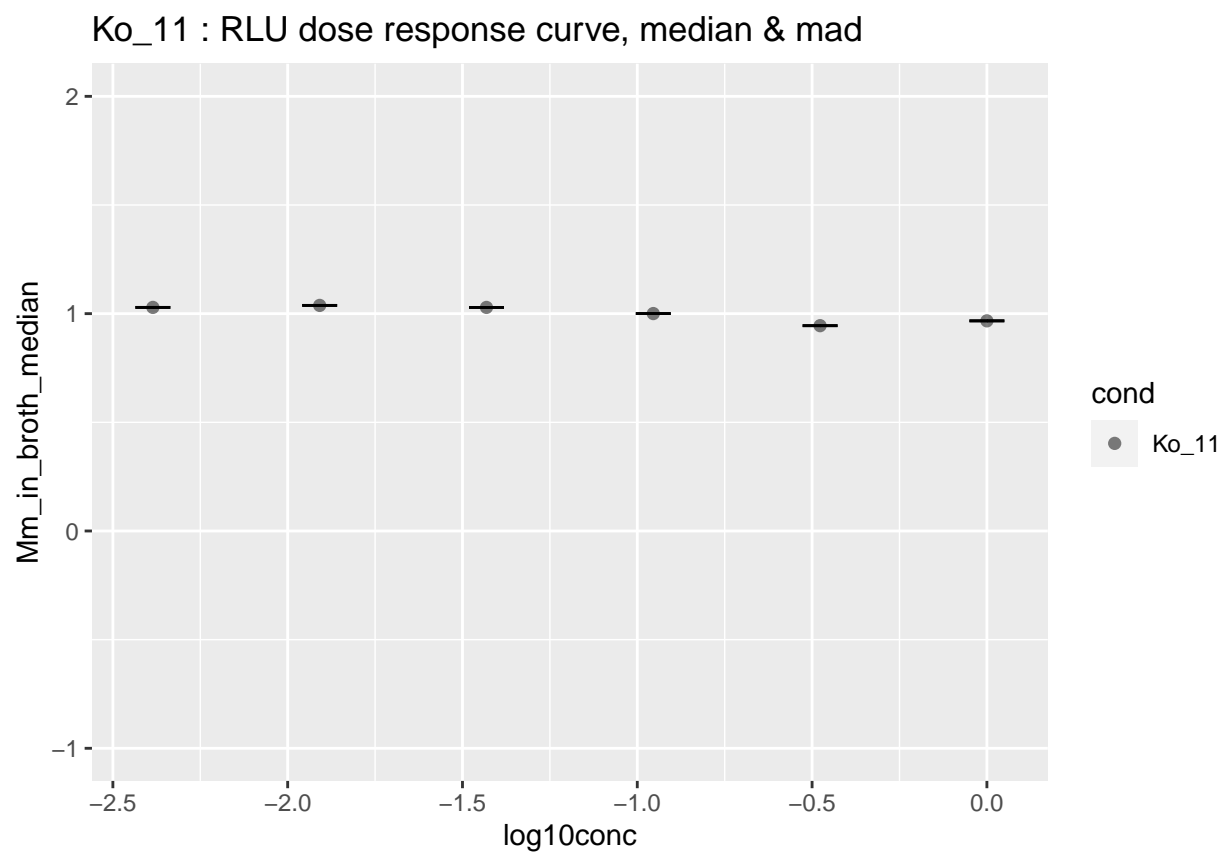
Gc_37 : RLU dose response curve, median & mad

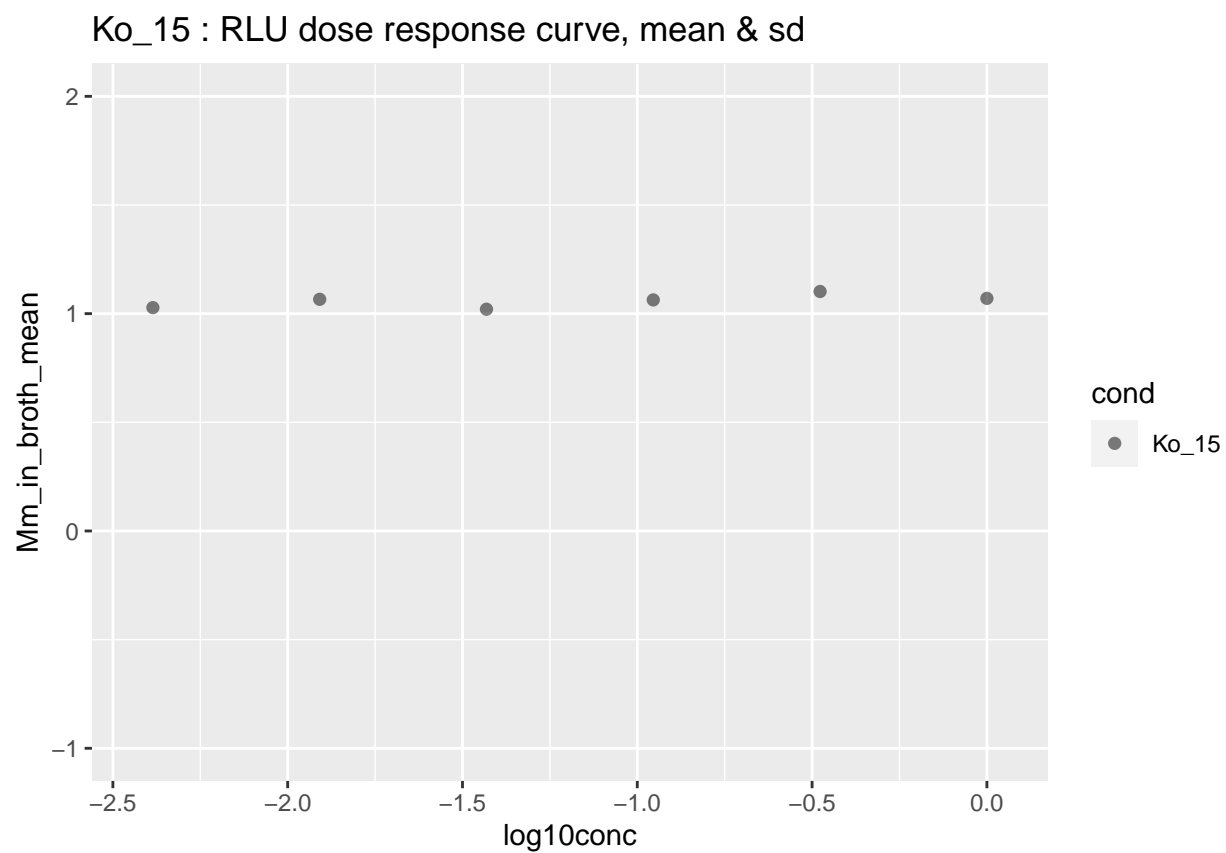




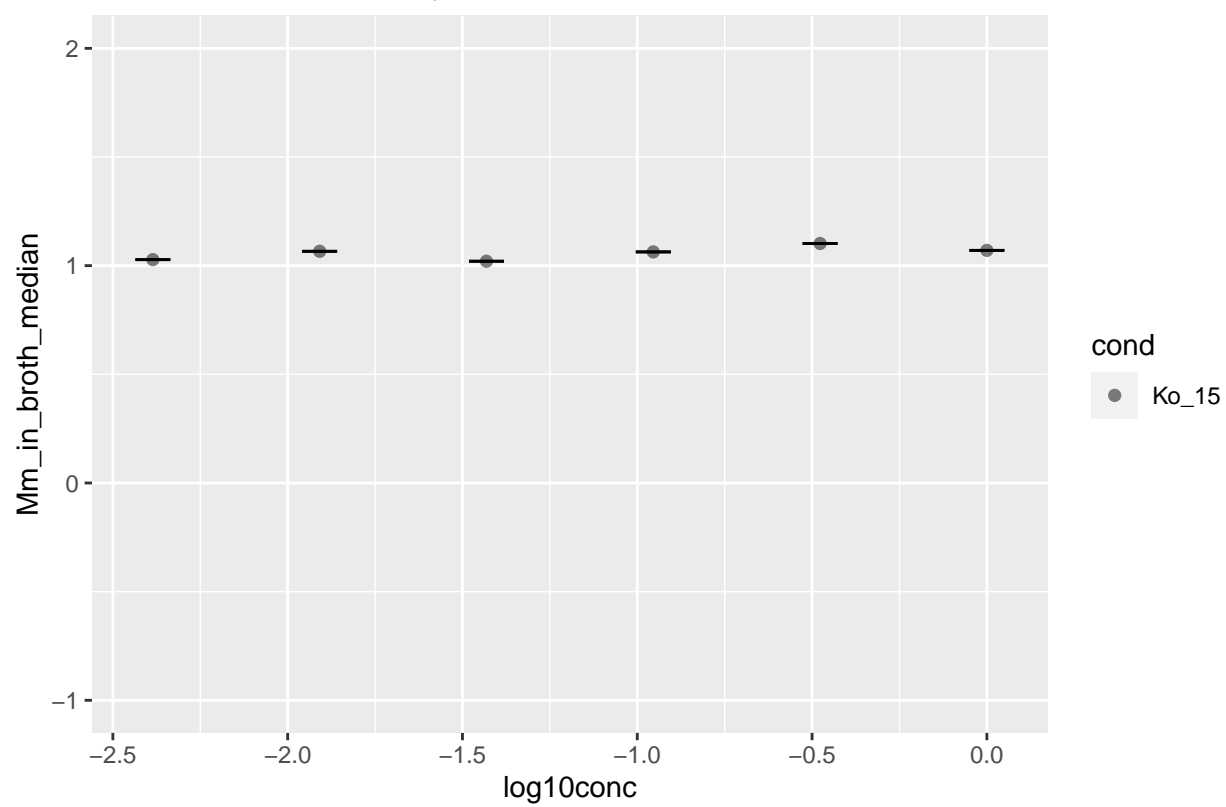


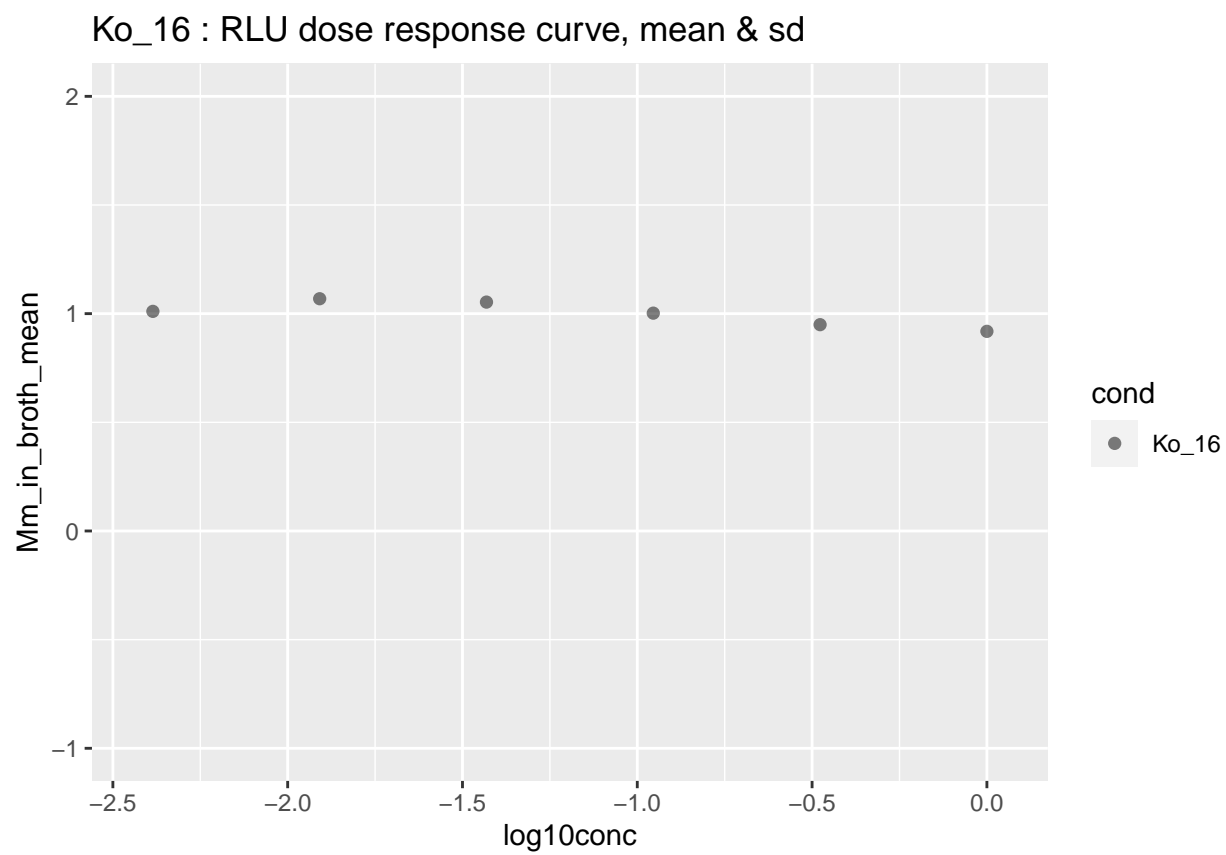




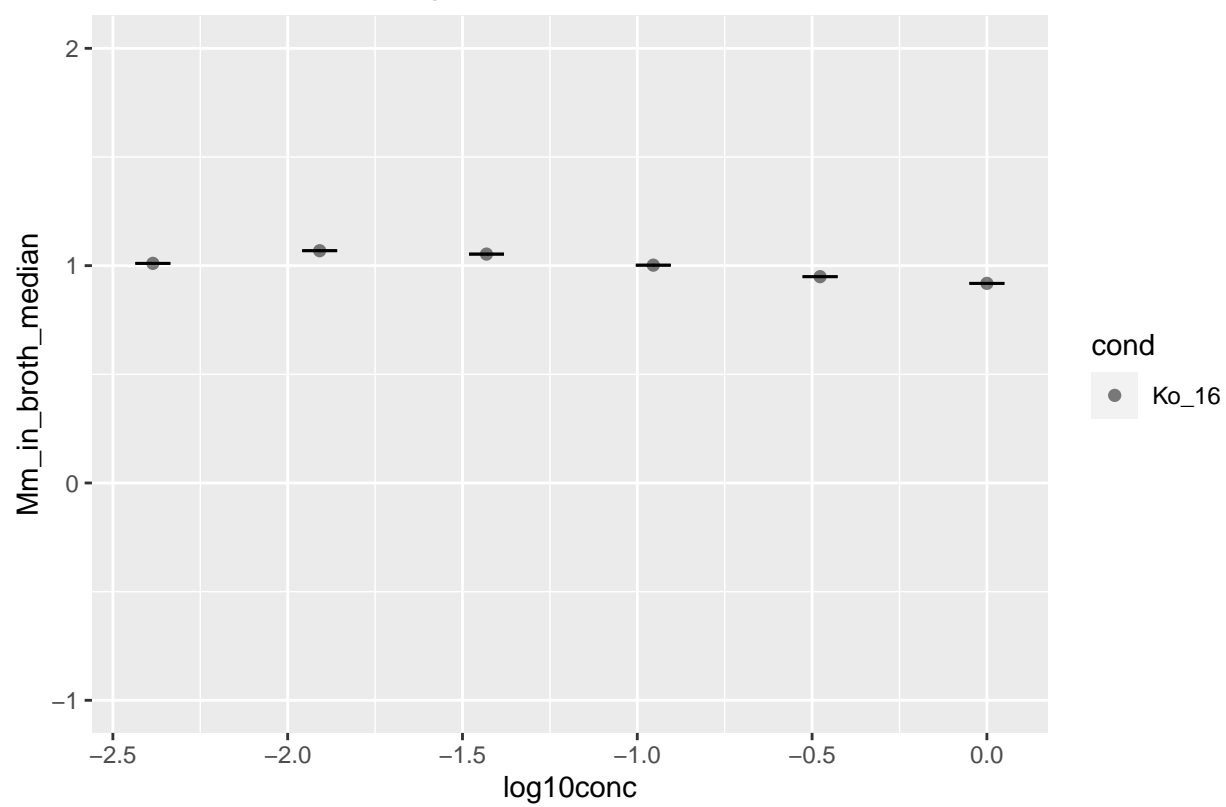


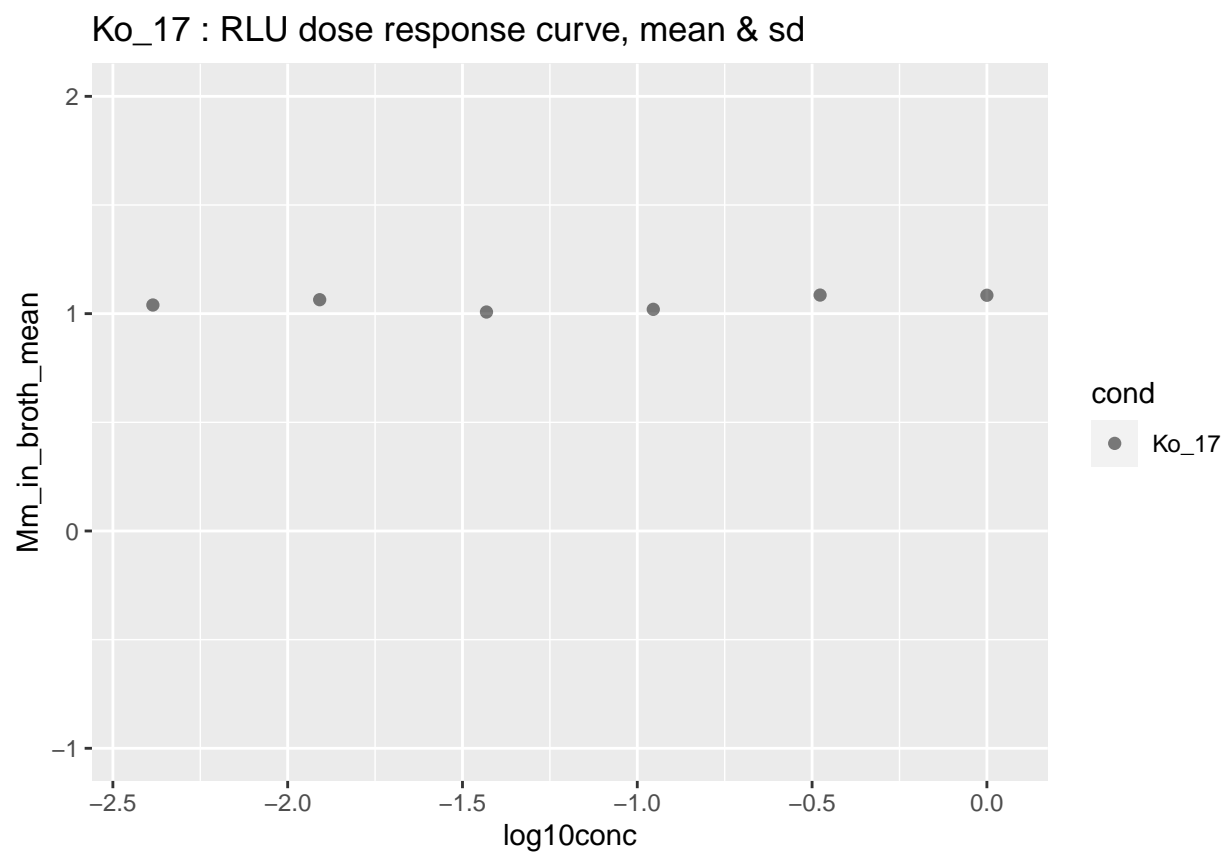
Ko_15 : RLU dose response curve, median & mad



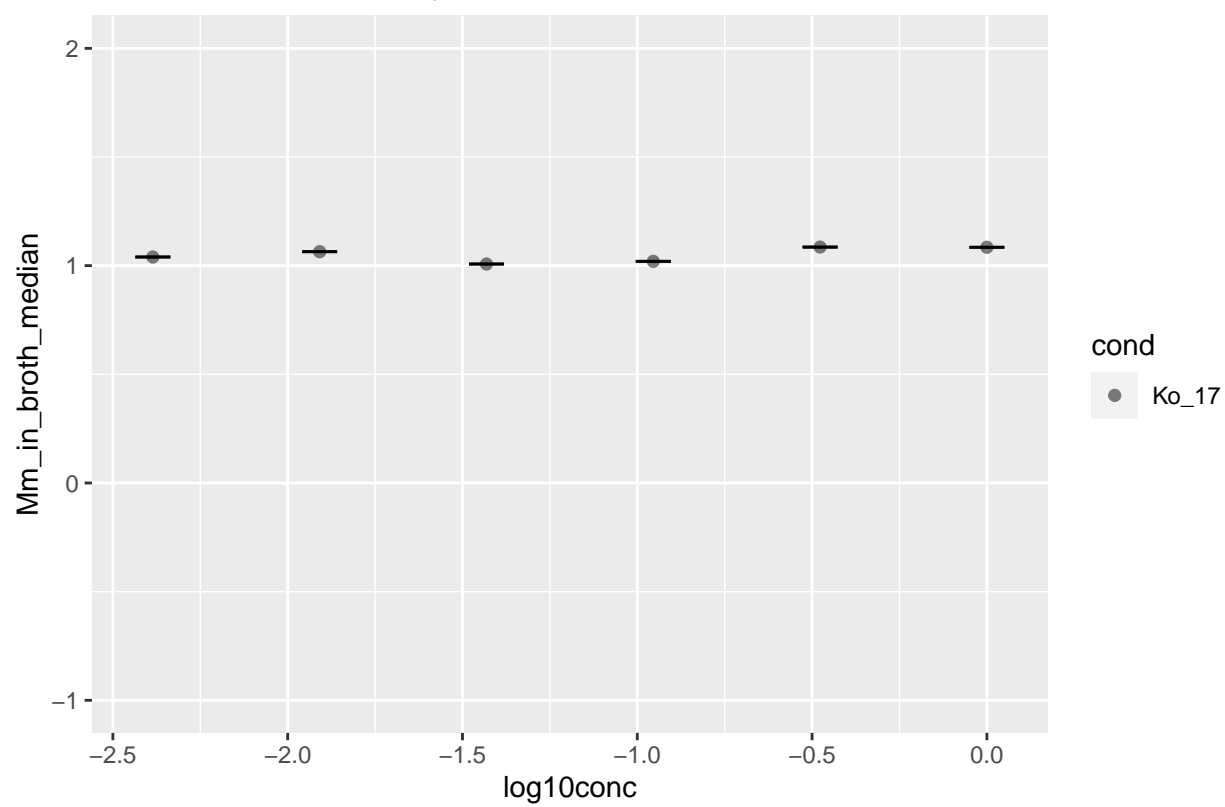


Ko_16 : RLU dose response curve, median & mad

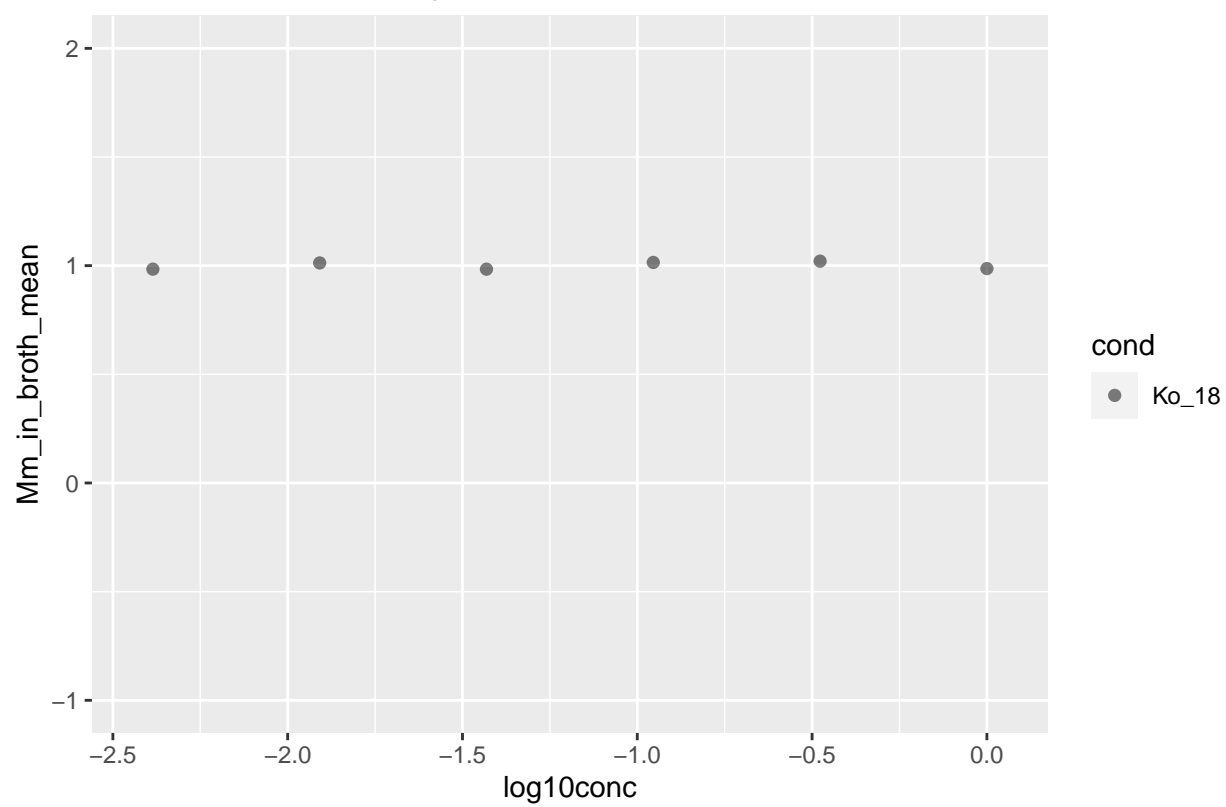




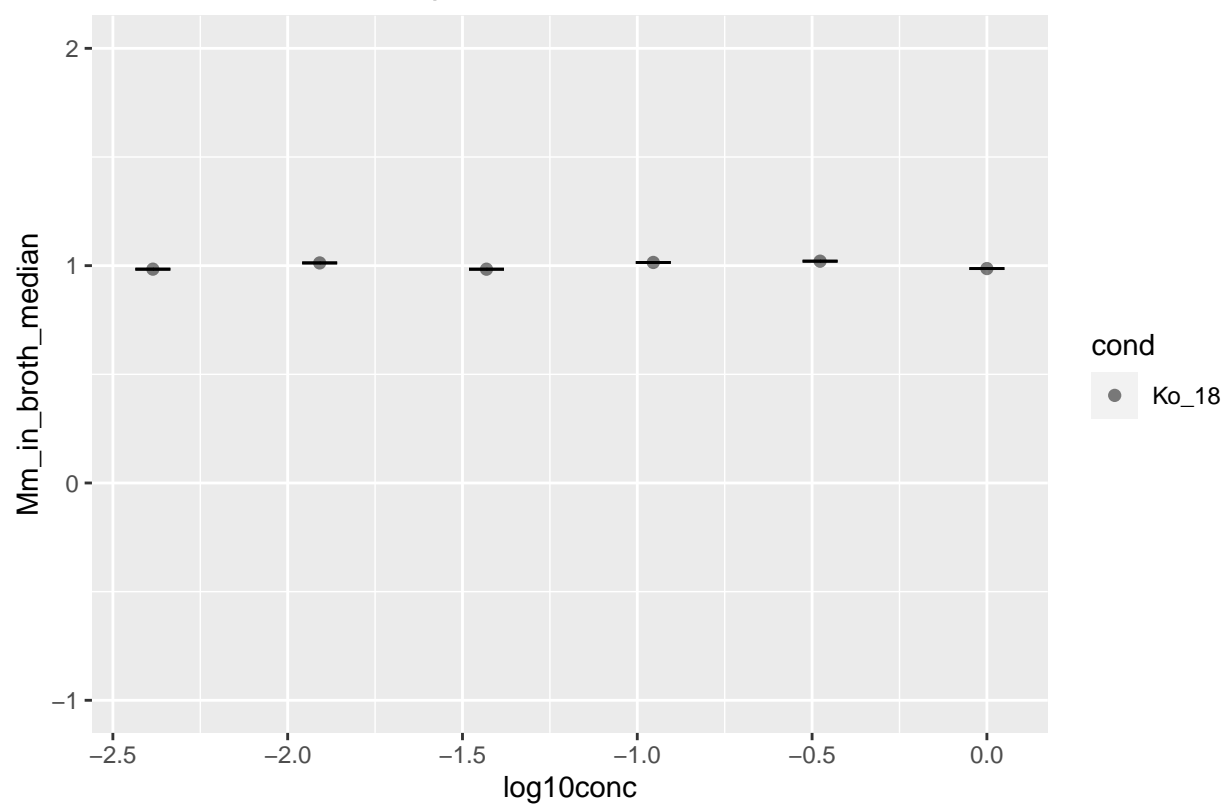
Ko_17 : RLU dose response curve, median & mad

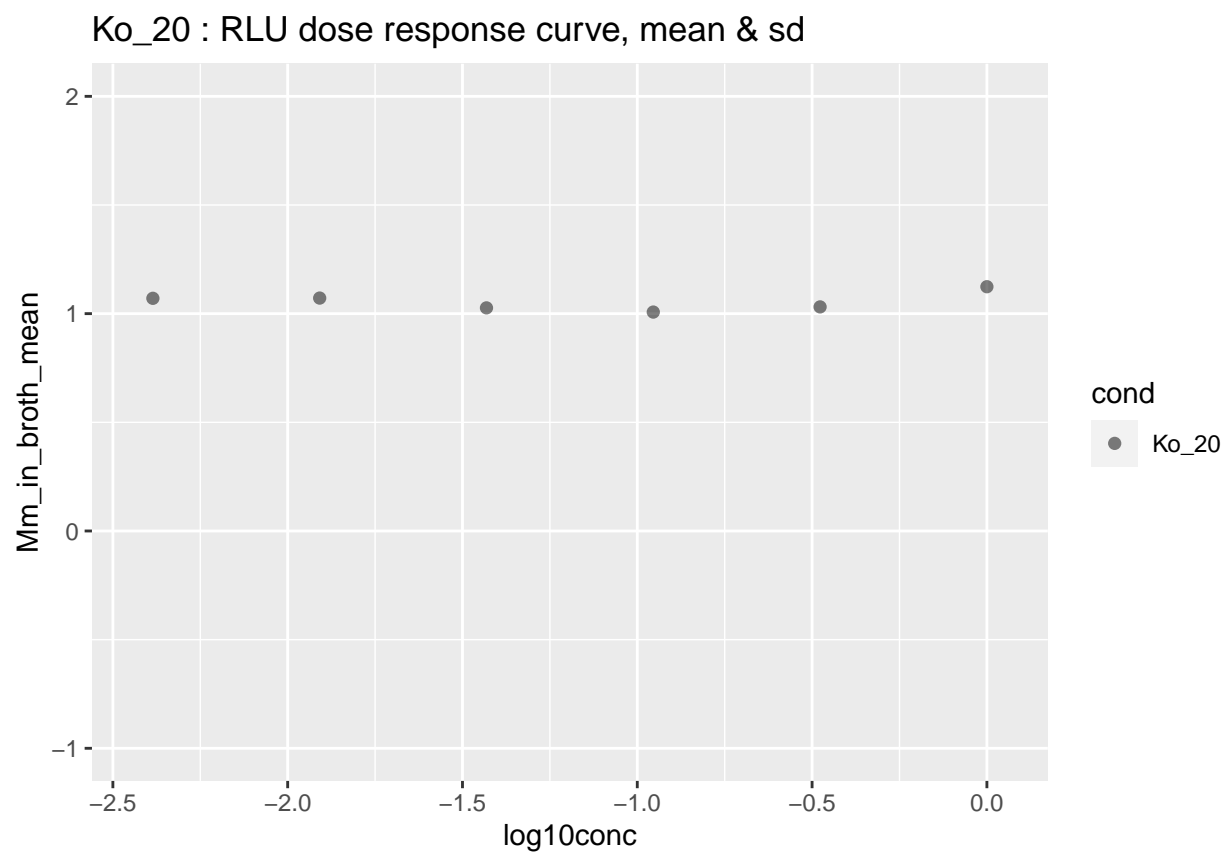


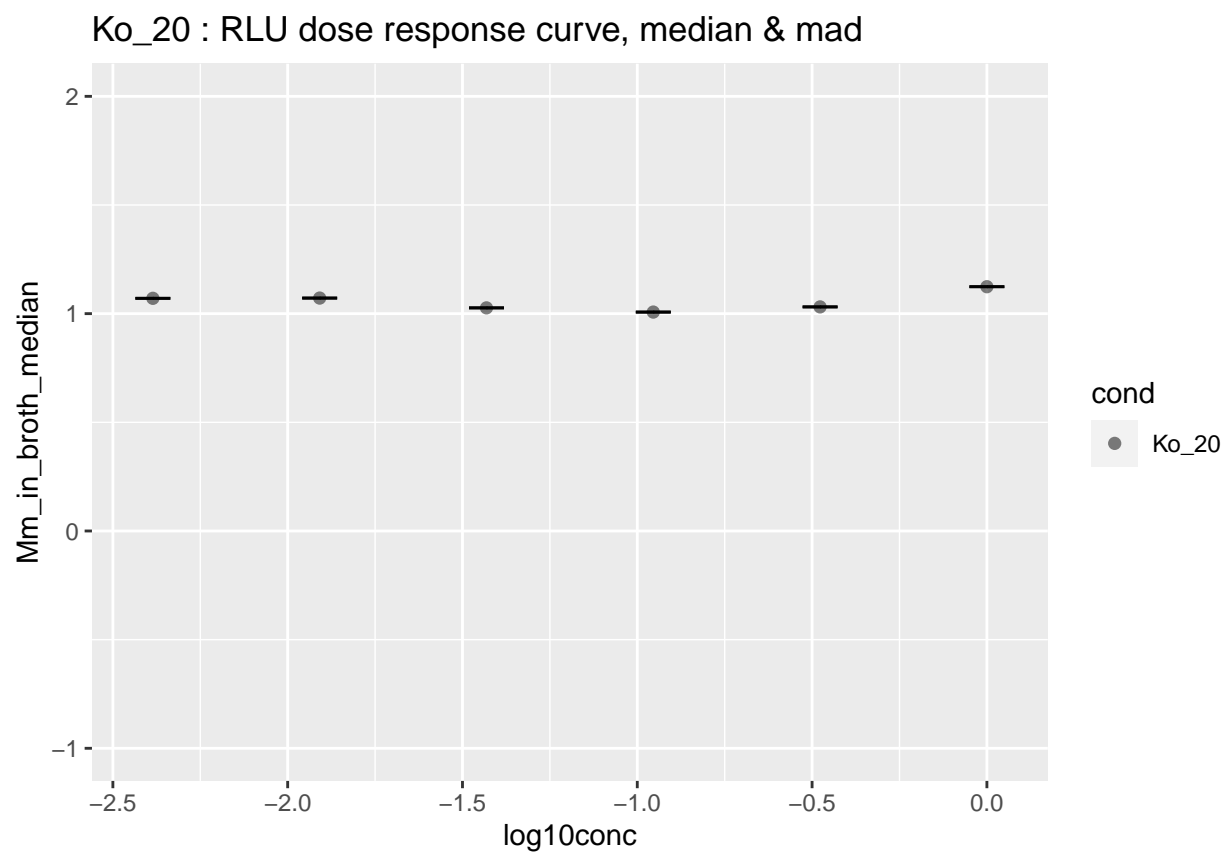
Ko_18 : RLU dose response curve, mean & sd

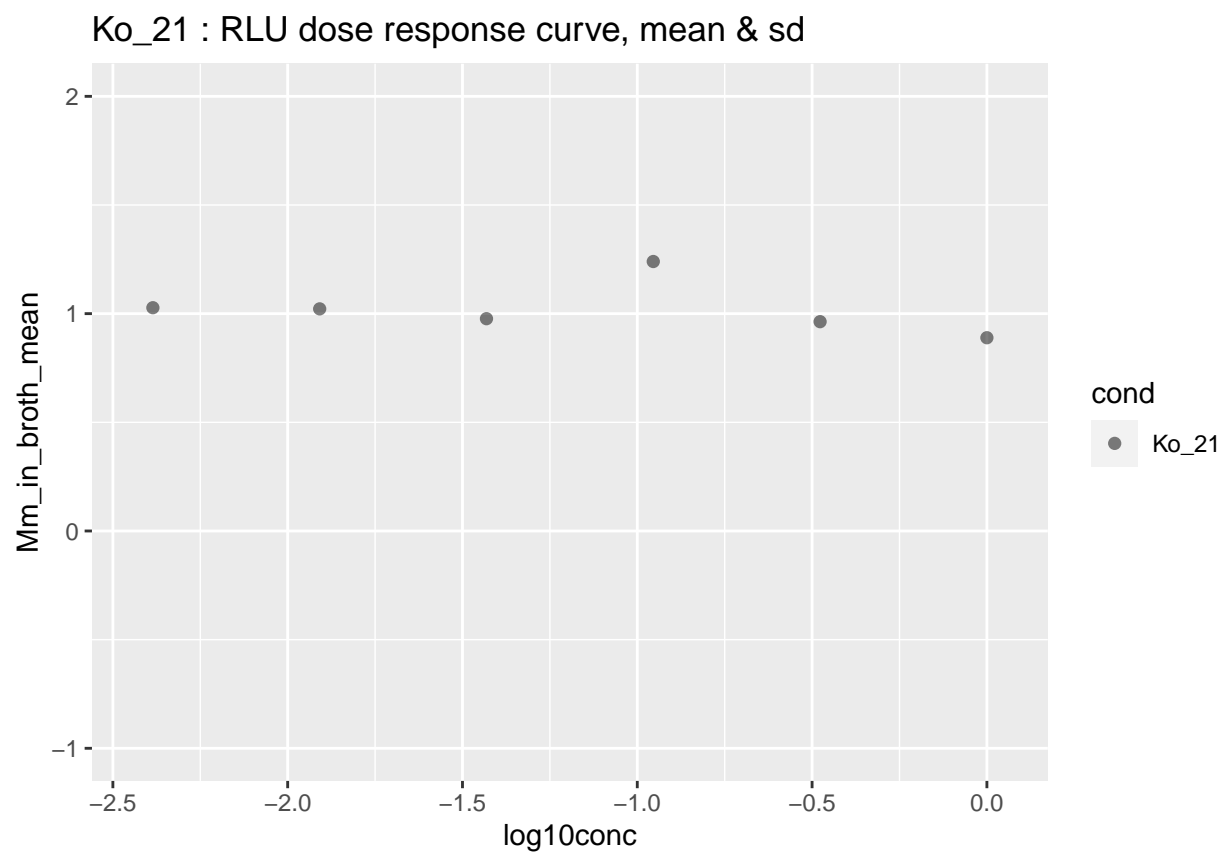


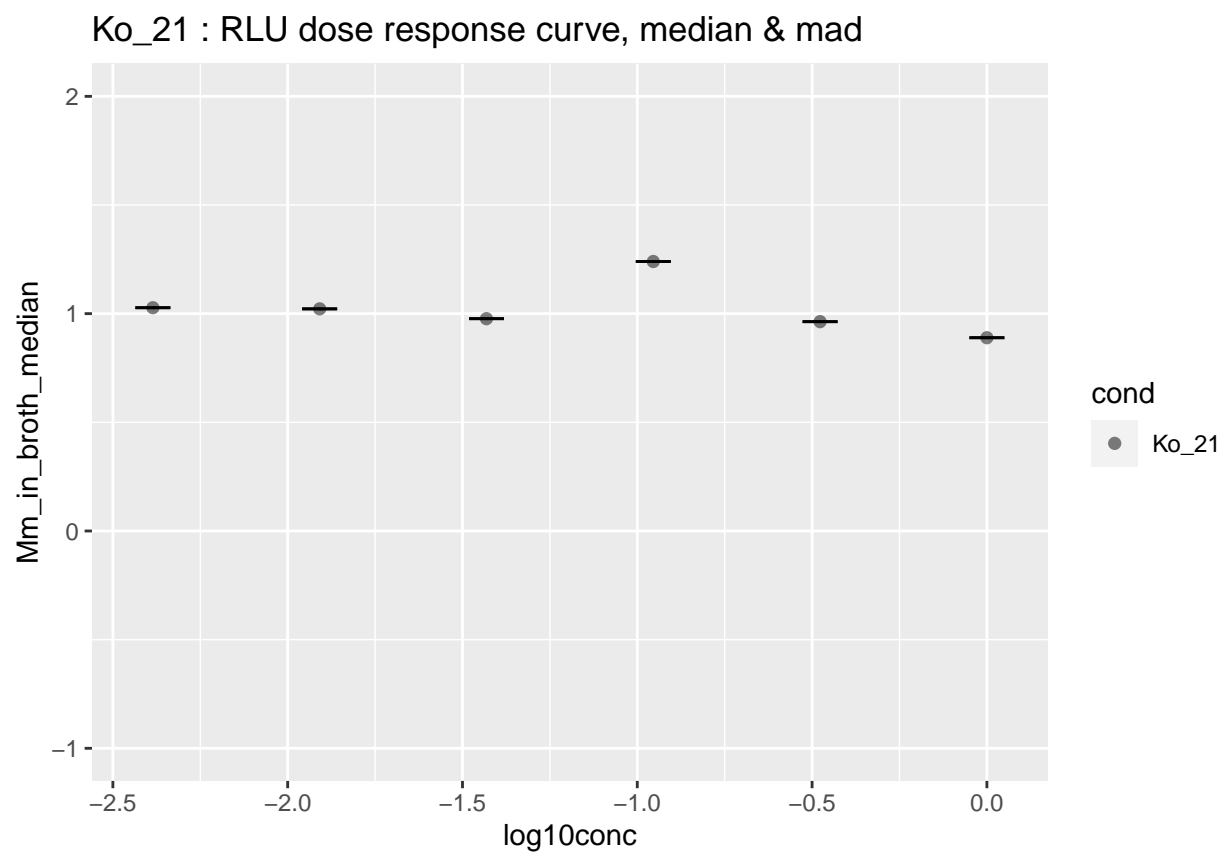
Ko_18 : RLU dose response curve, median & mad

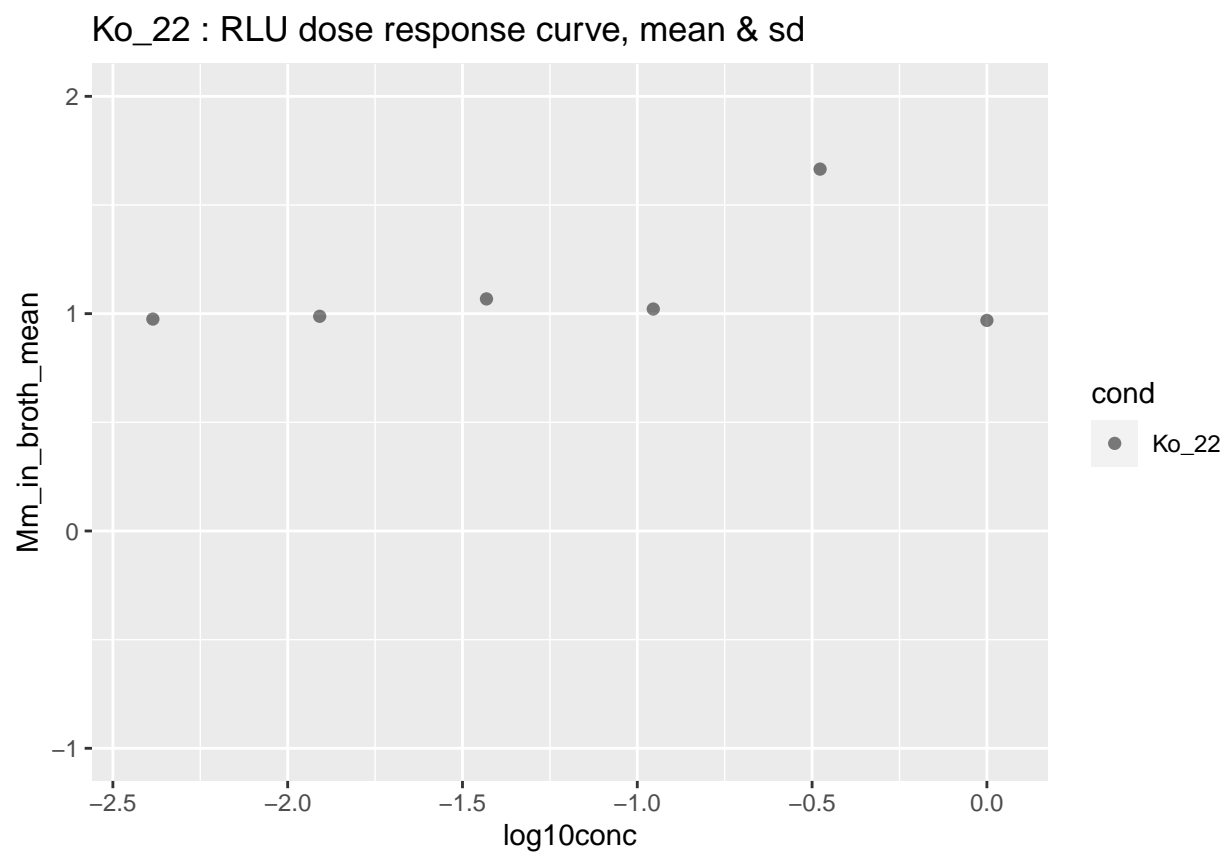


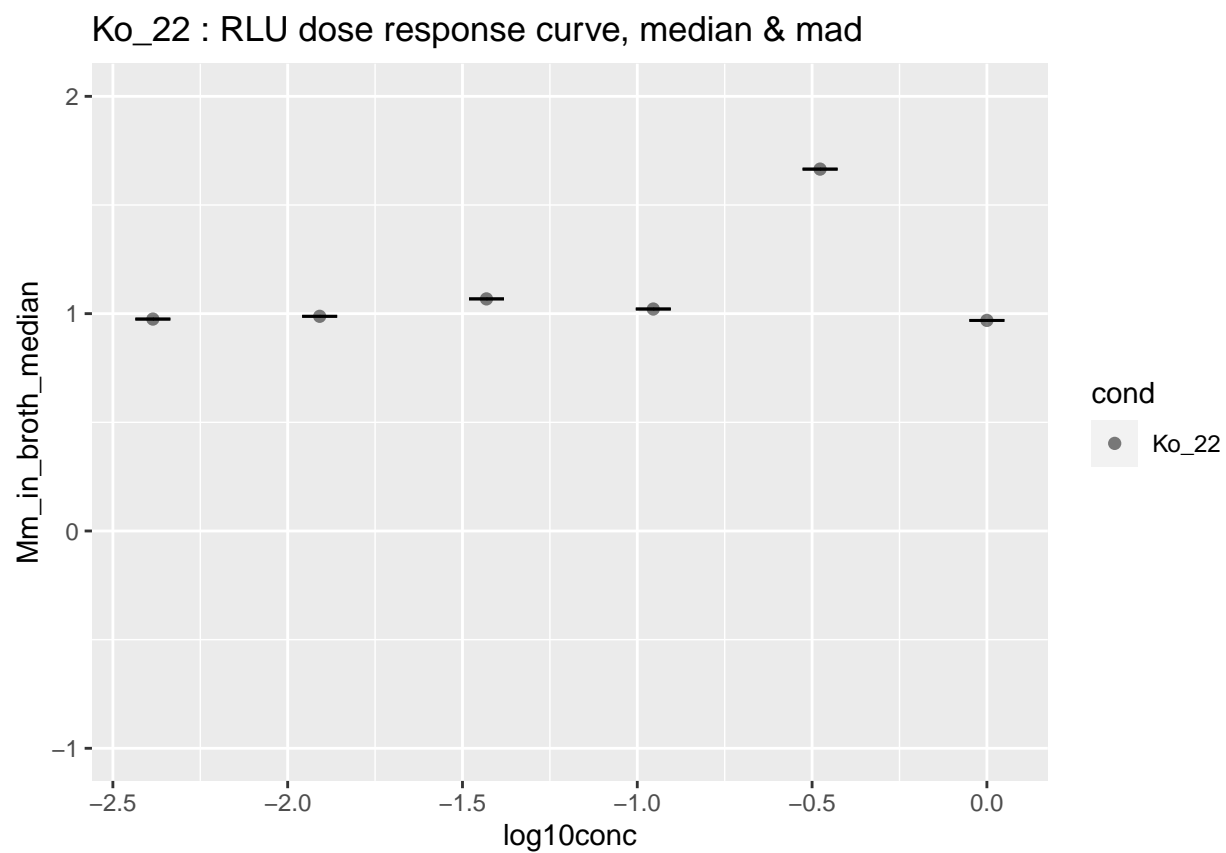


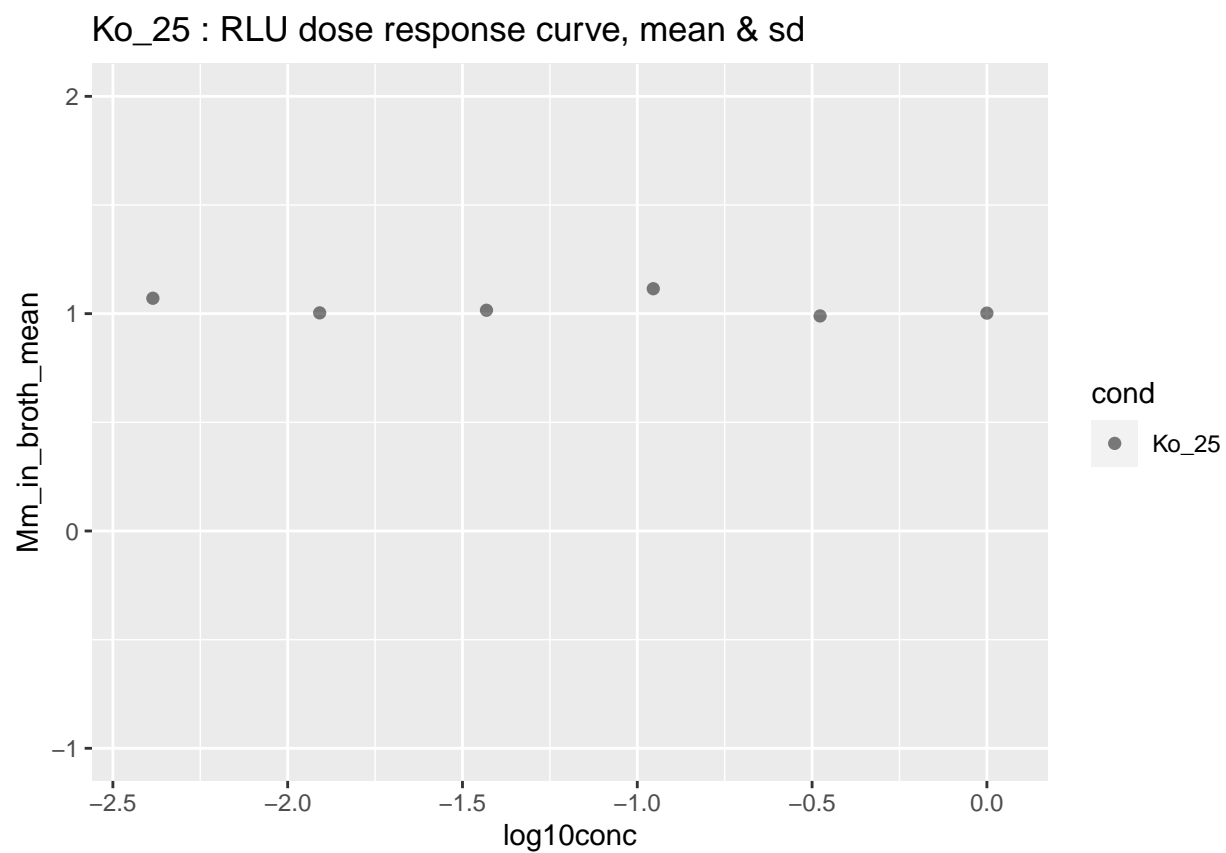




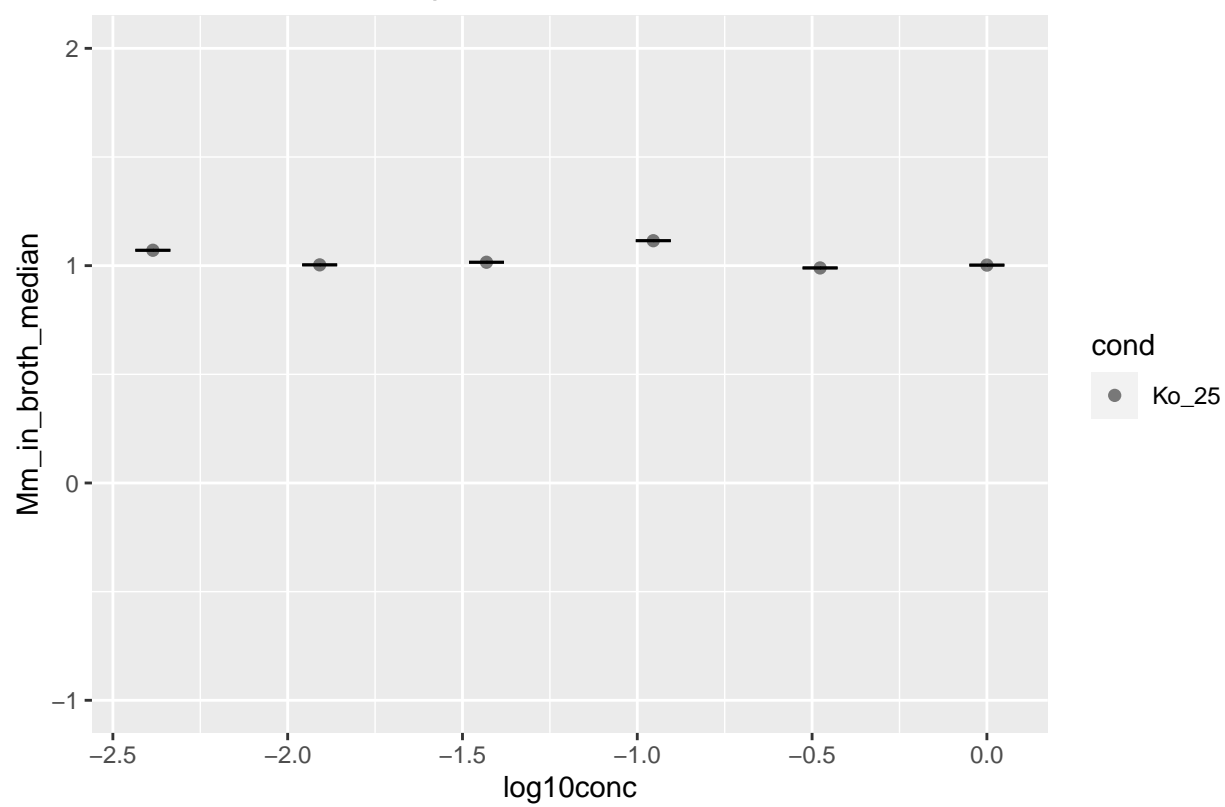


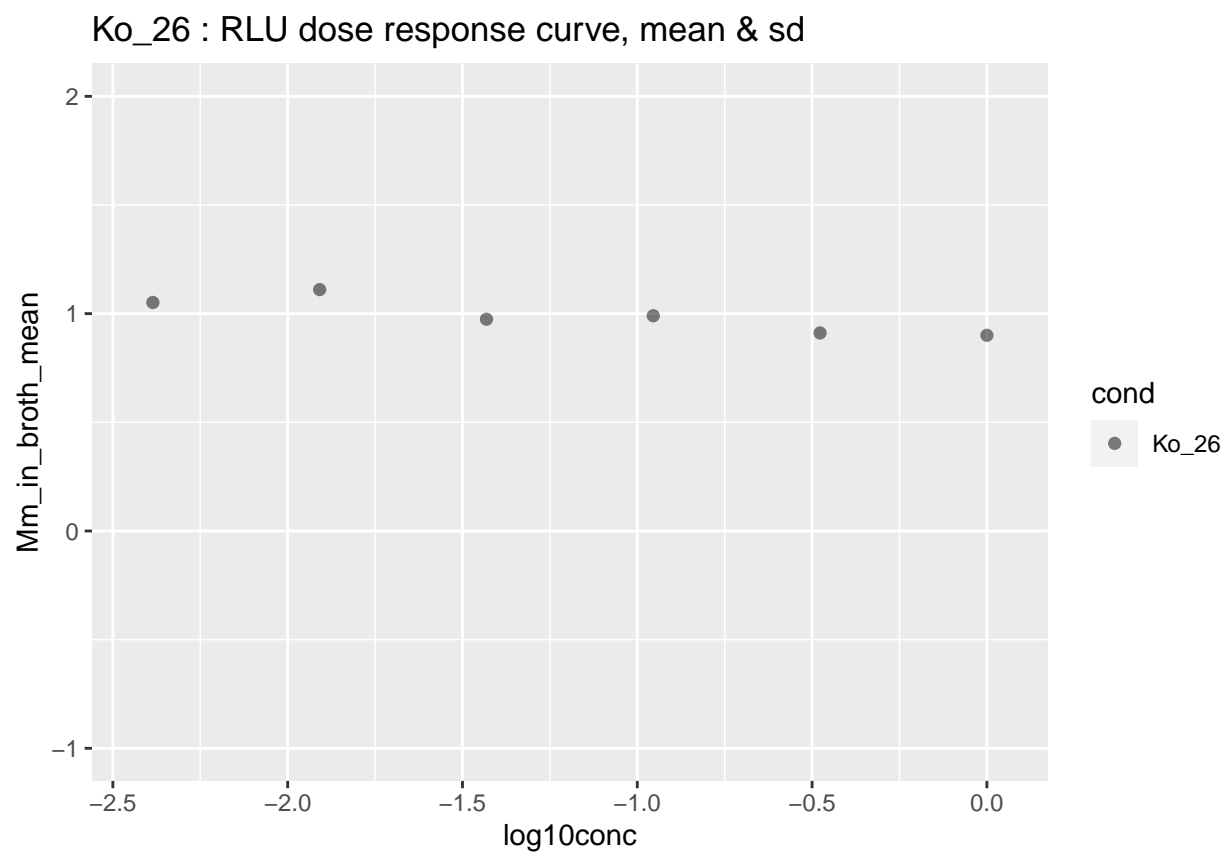




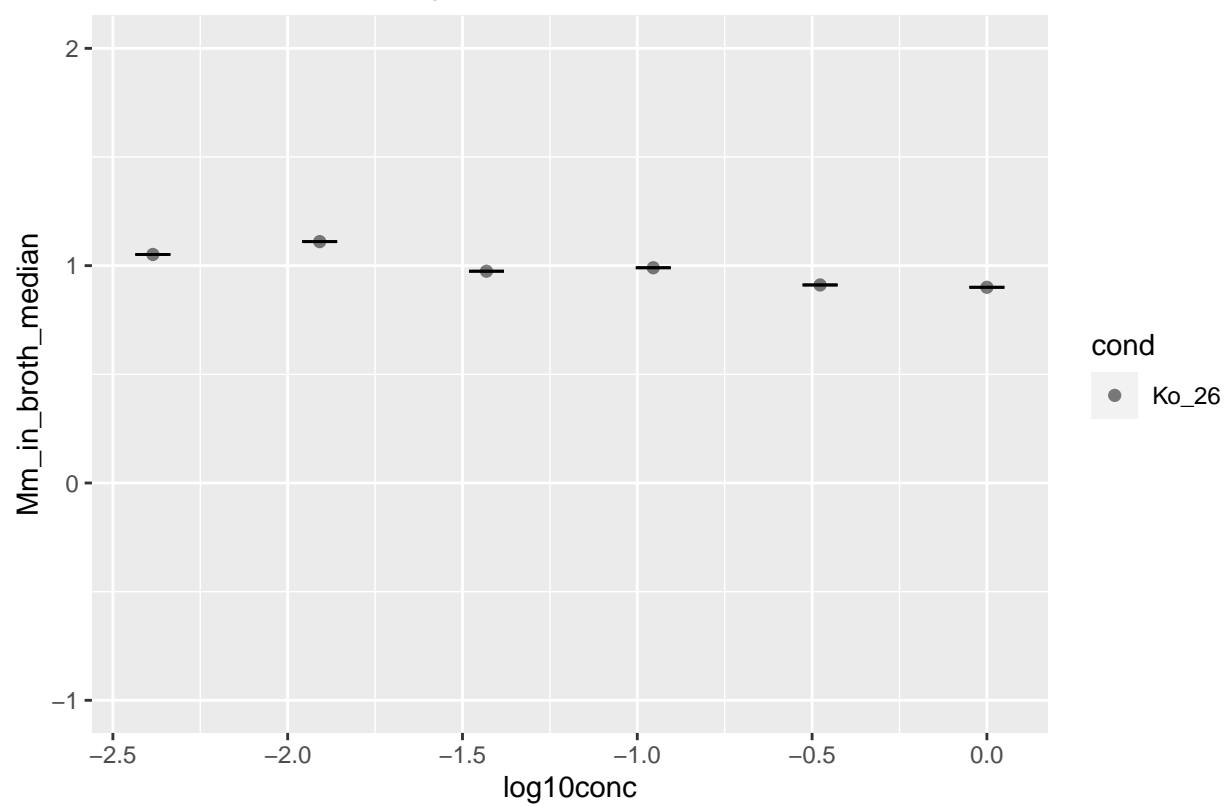


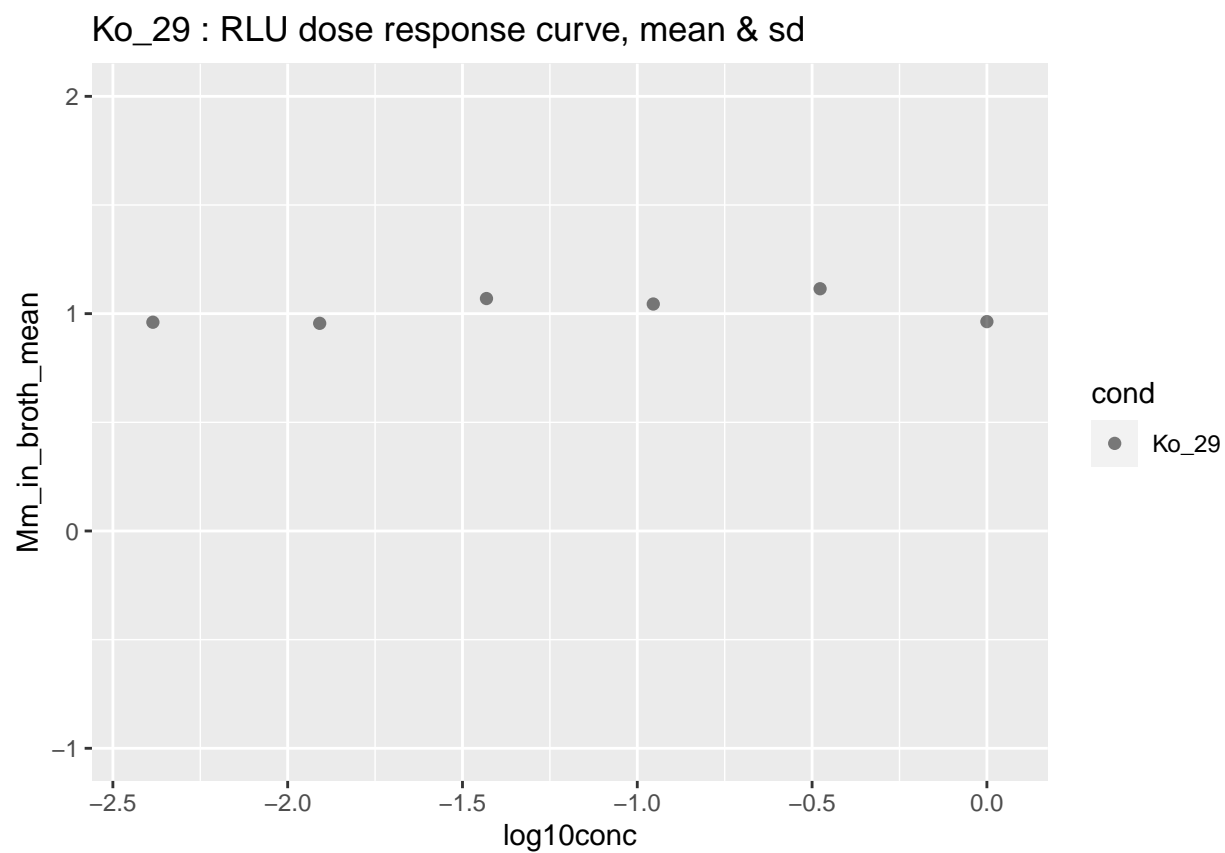
Ko_25 : RLU dose response curve, median & mad



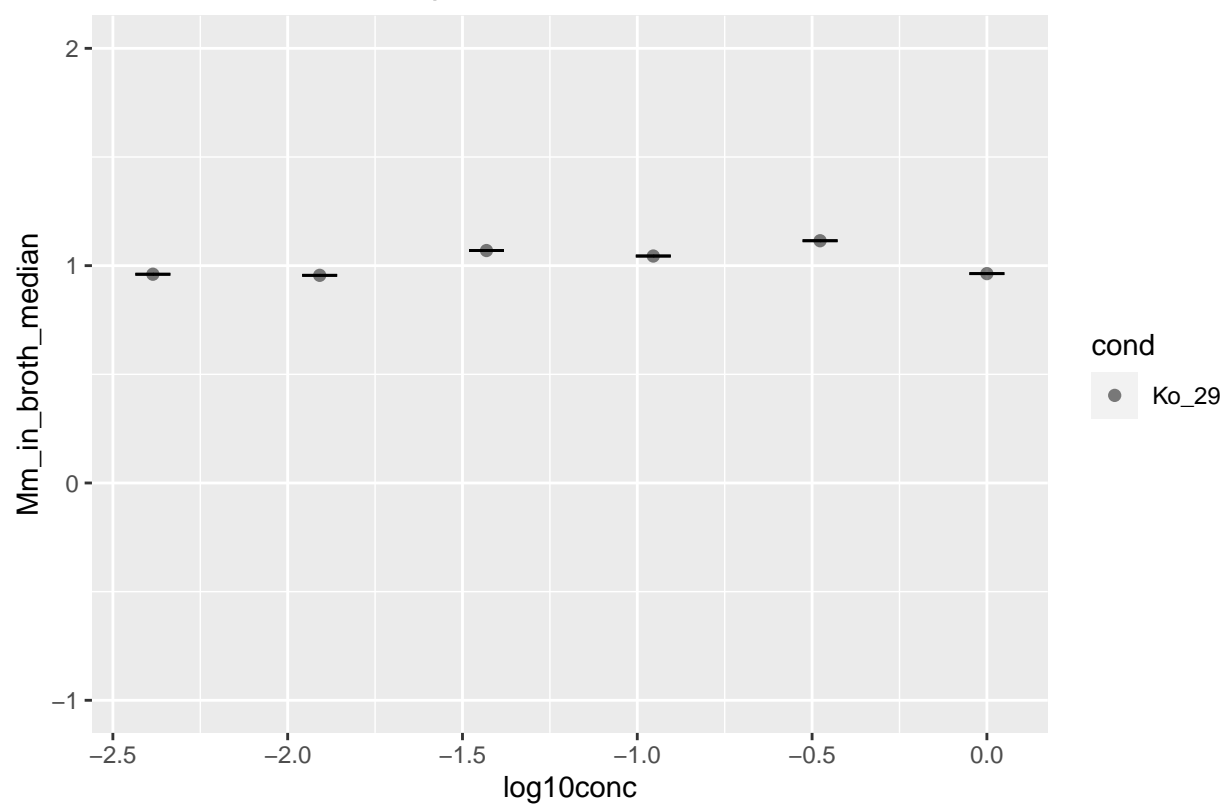


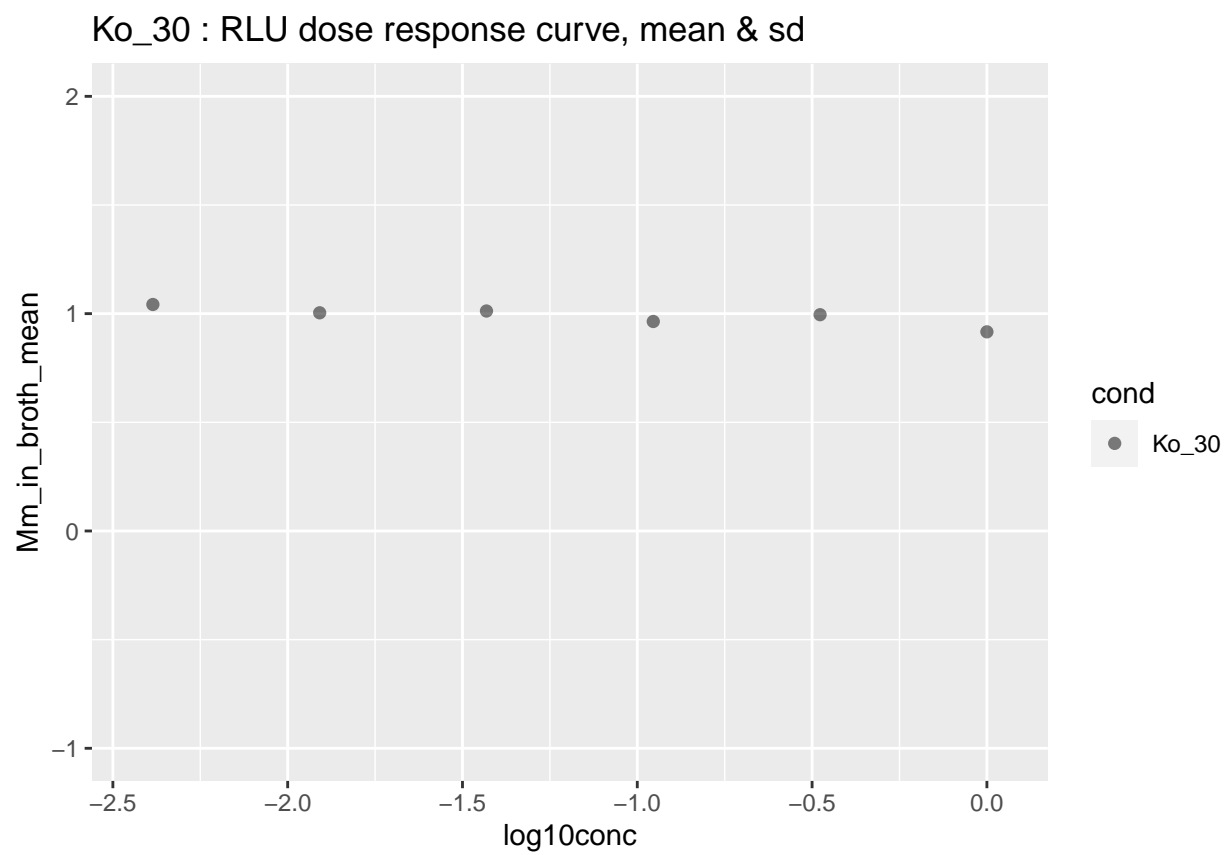
Ko_26 : RLU dose response curve, median & mad

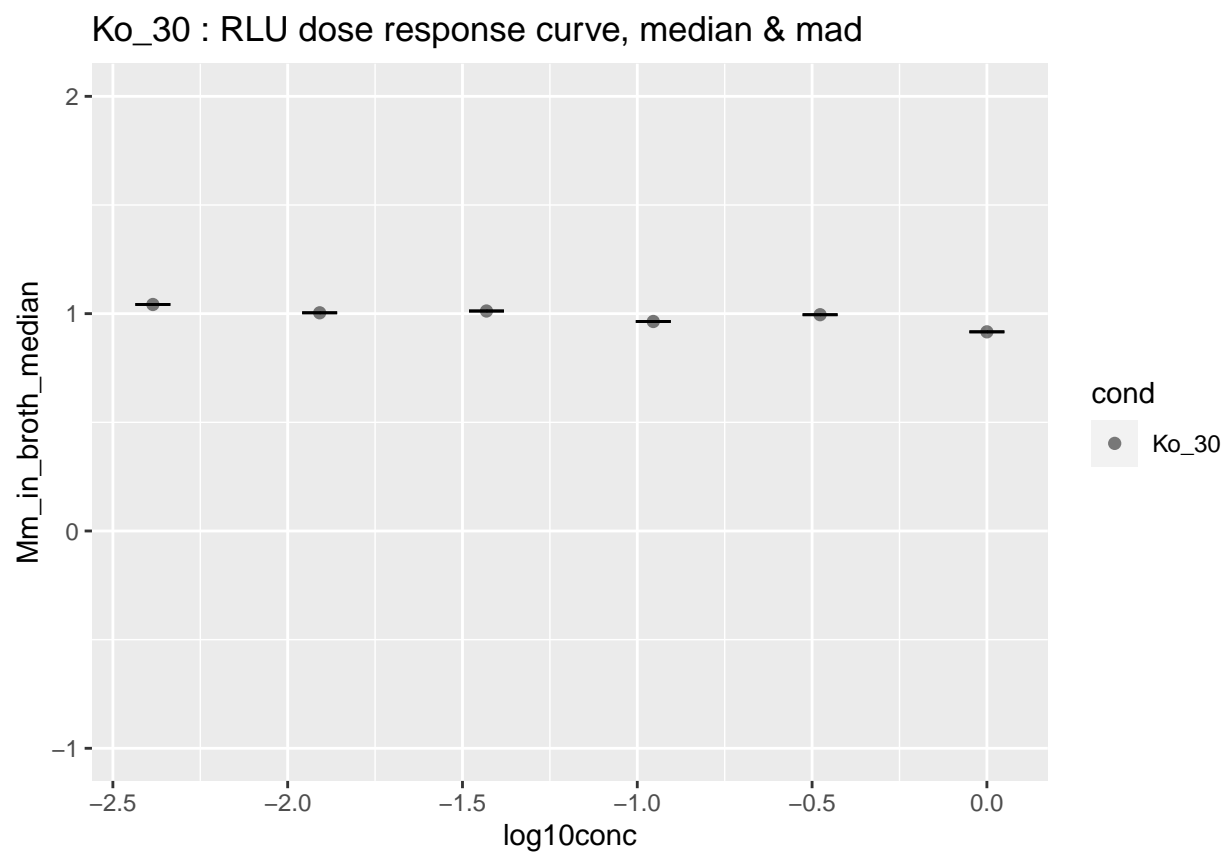


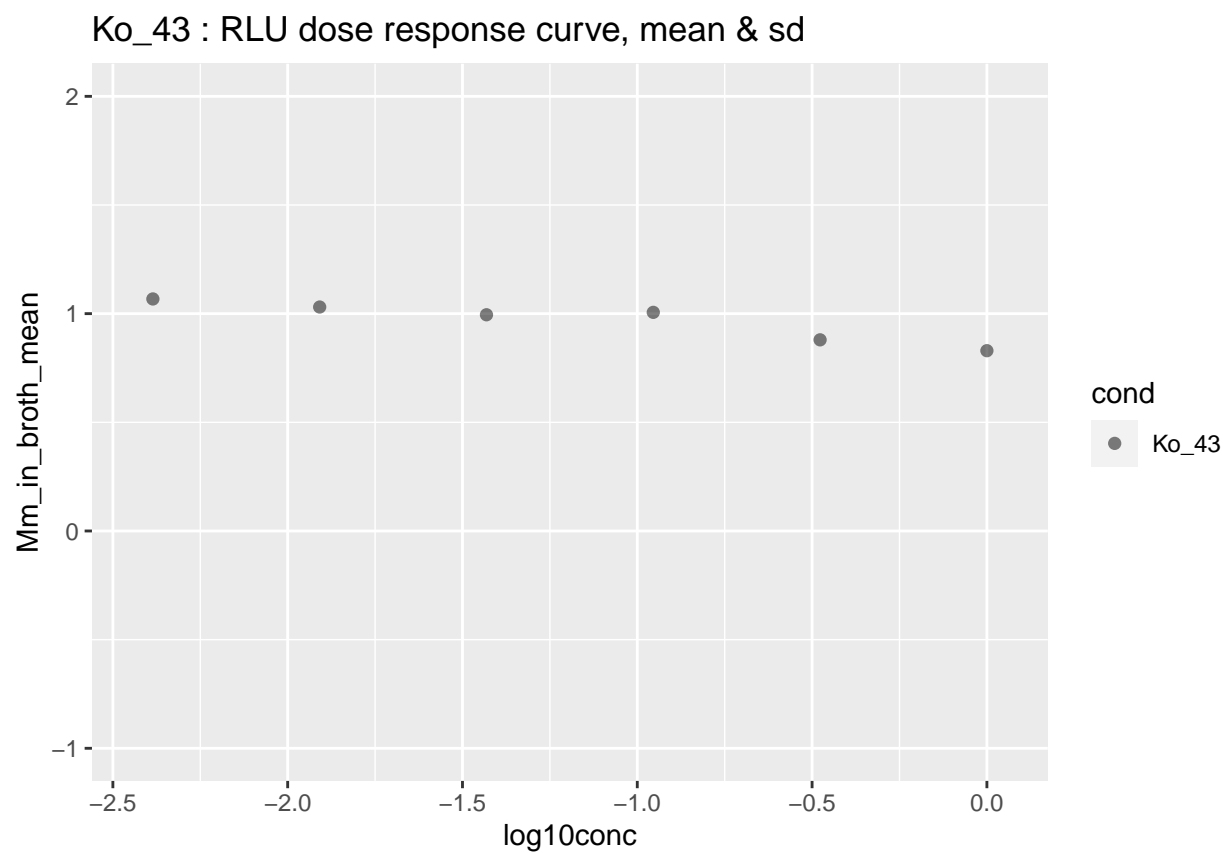


Ko_29 : RLU dose response curve, median & mad

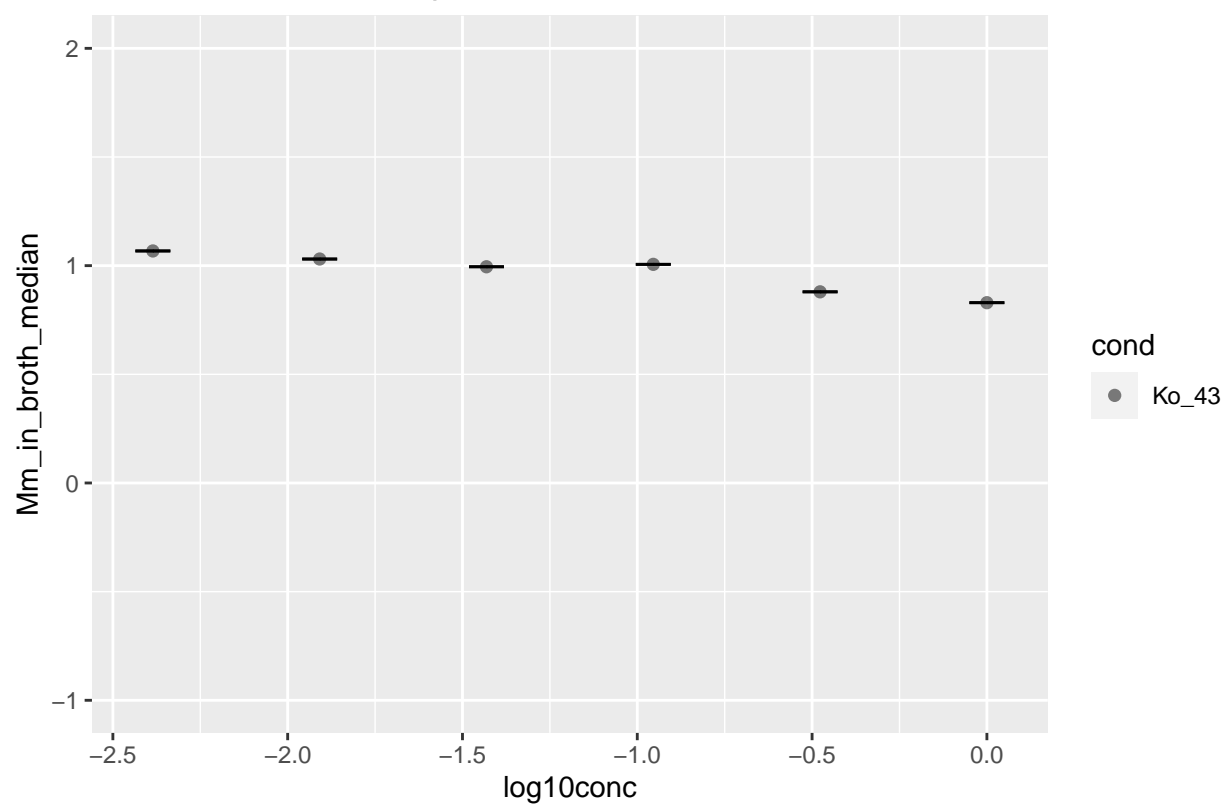


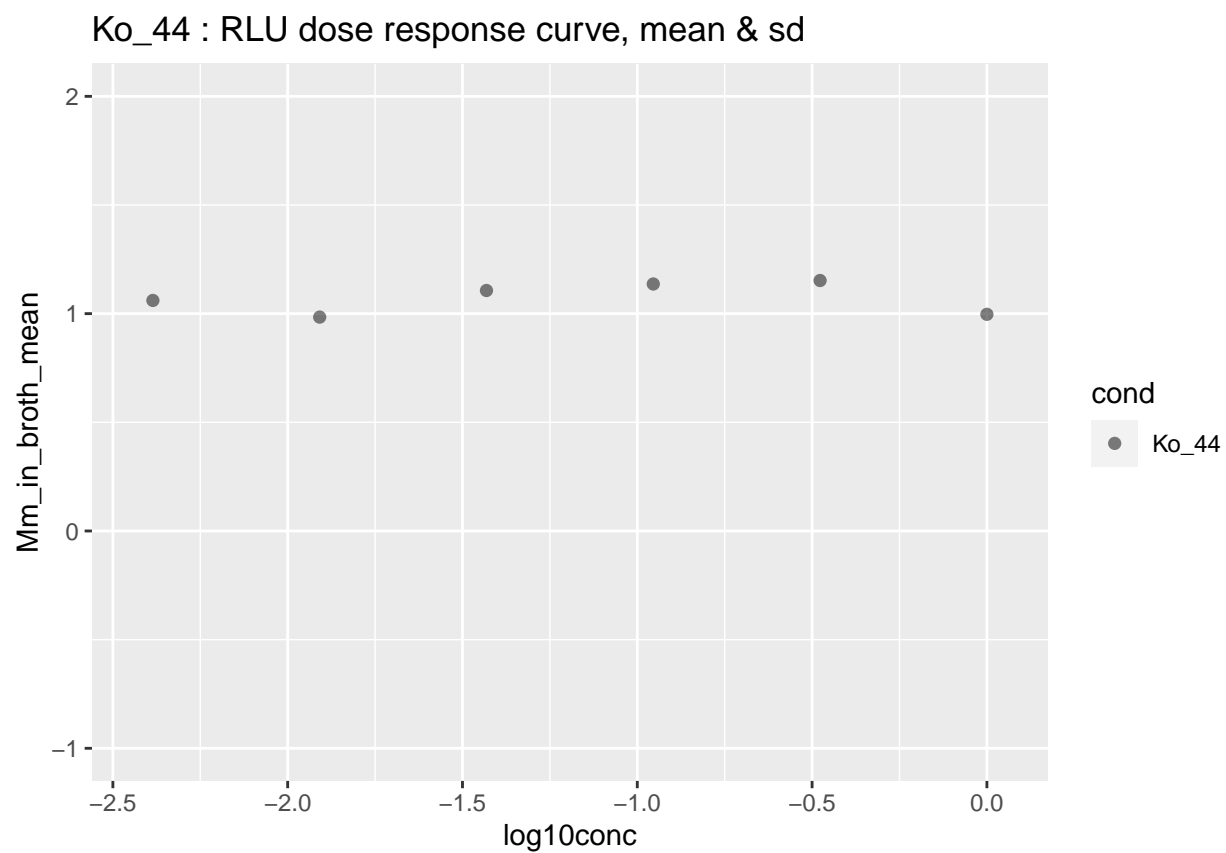


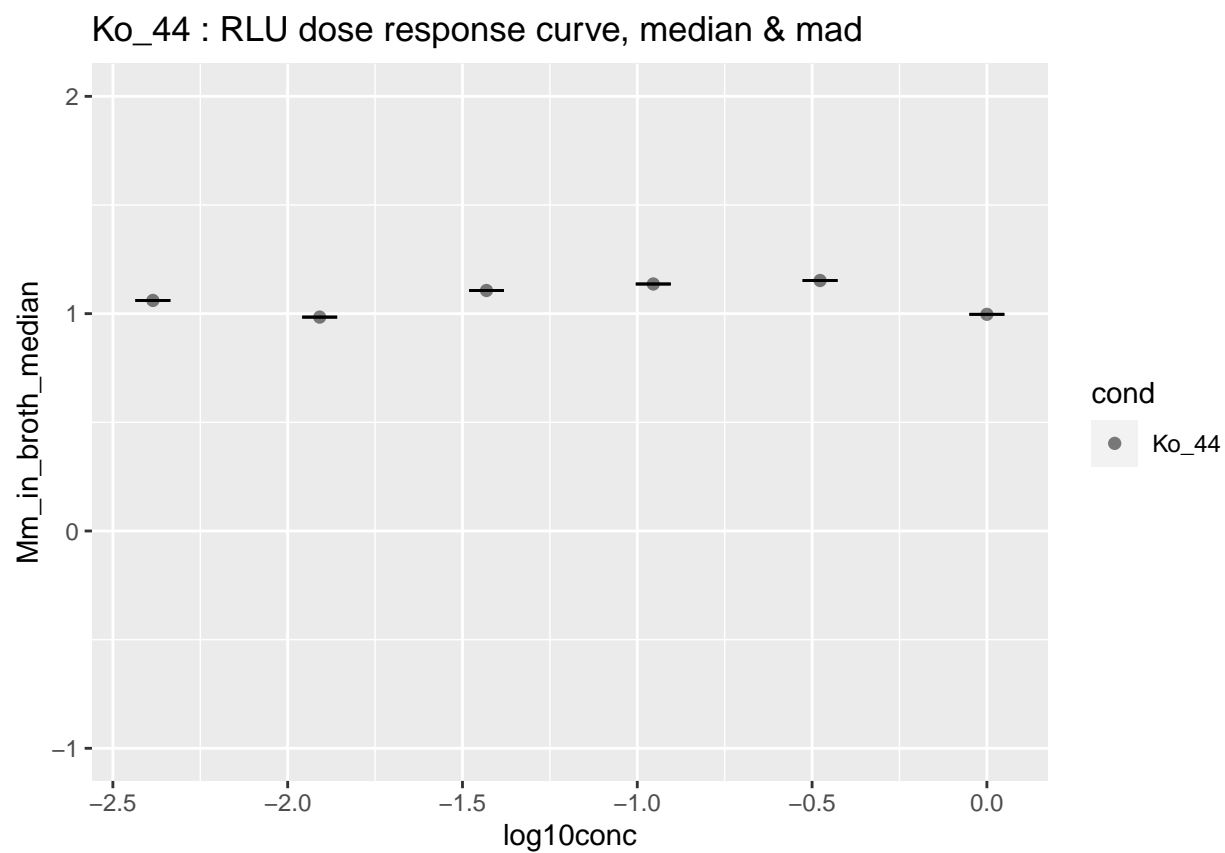


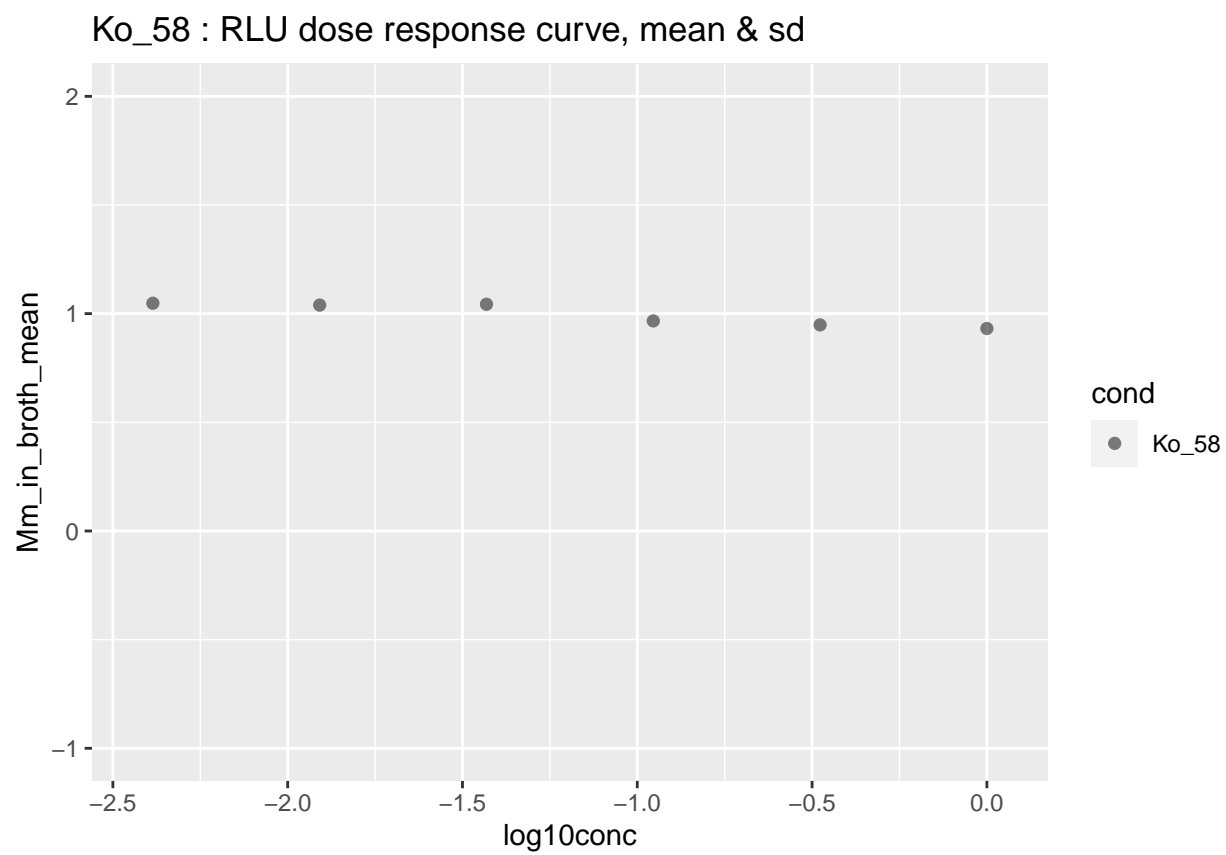


Ko_43 : RLU dose response curve, median & mad

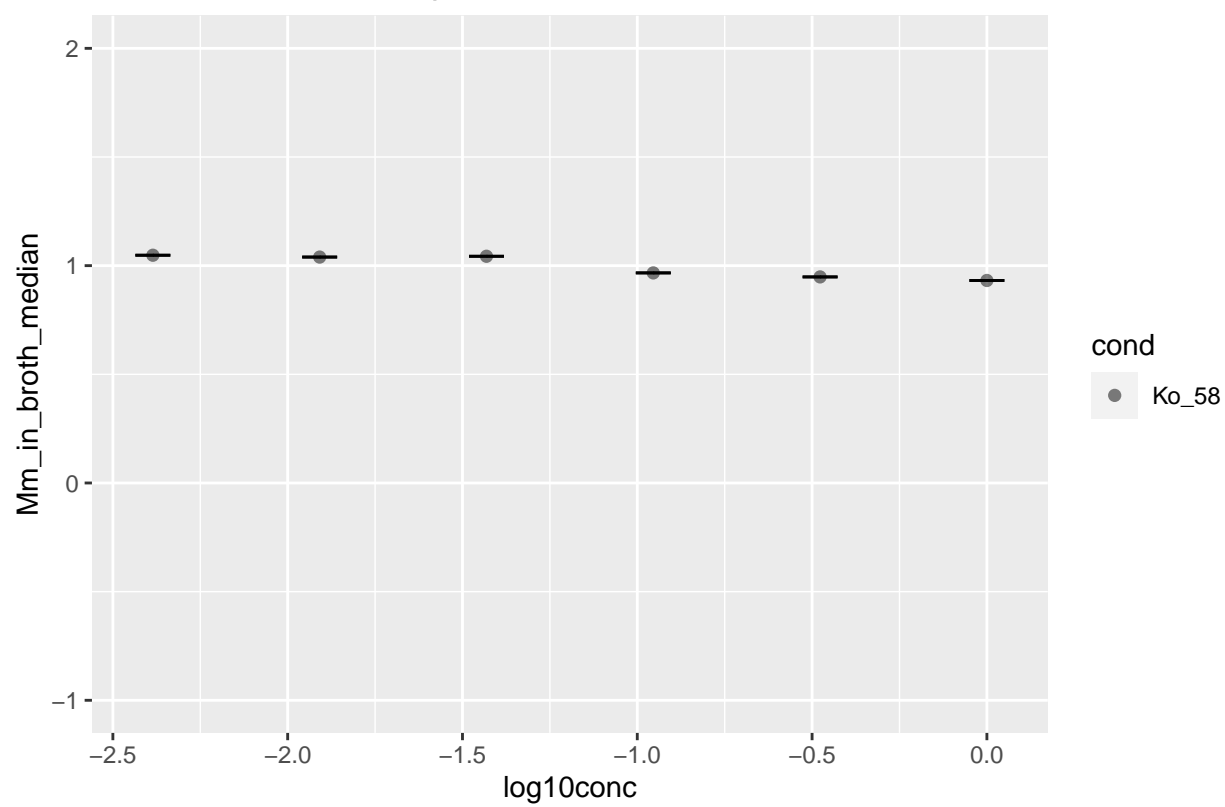


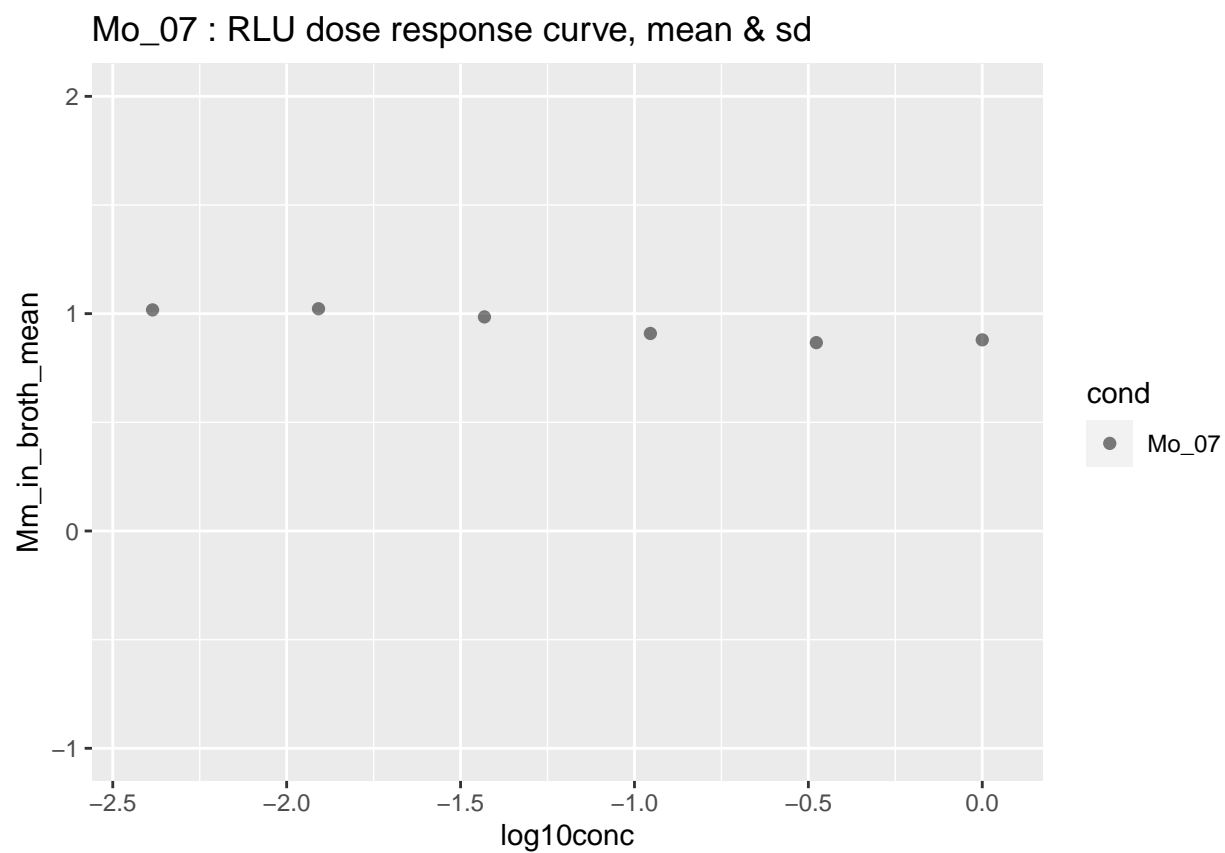


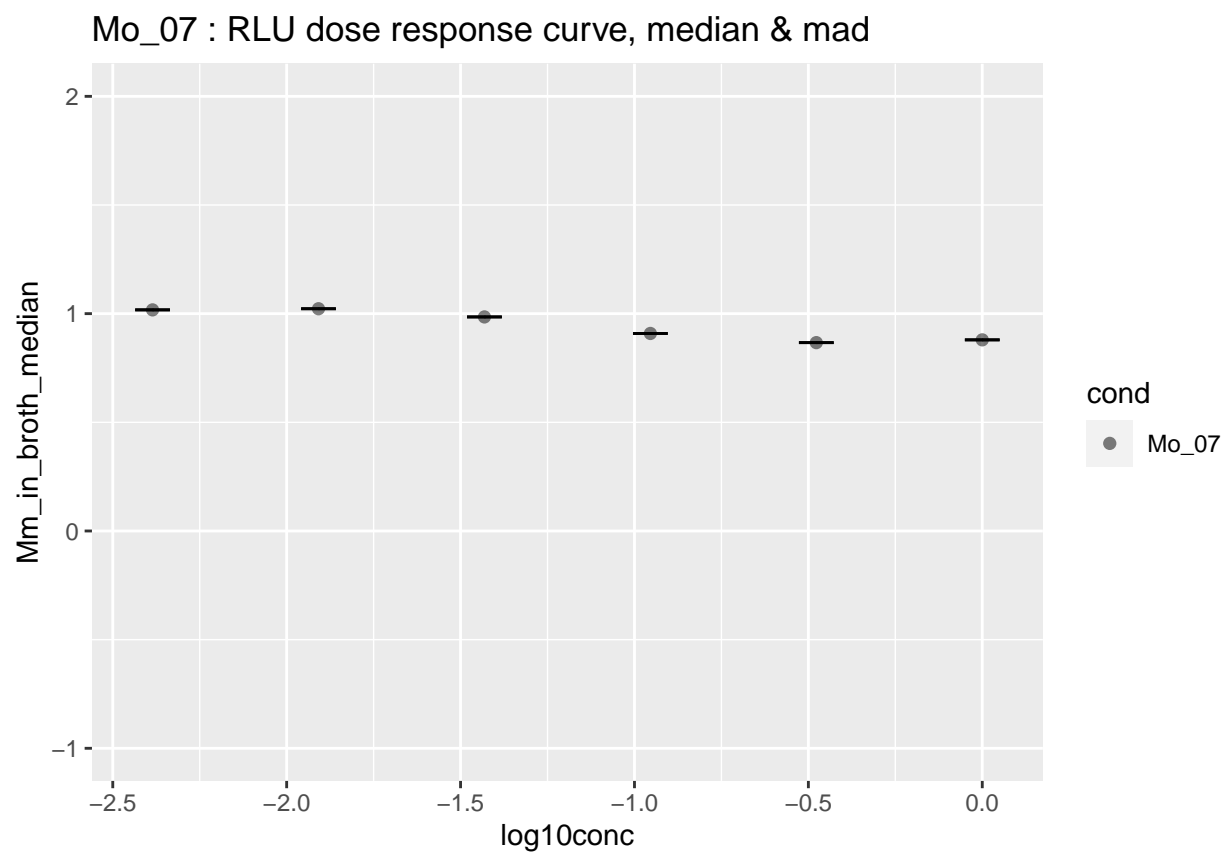


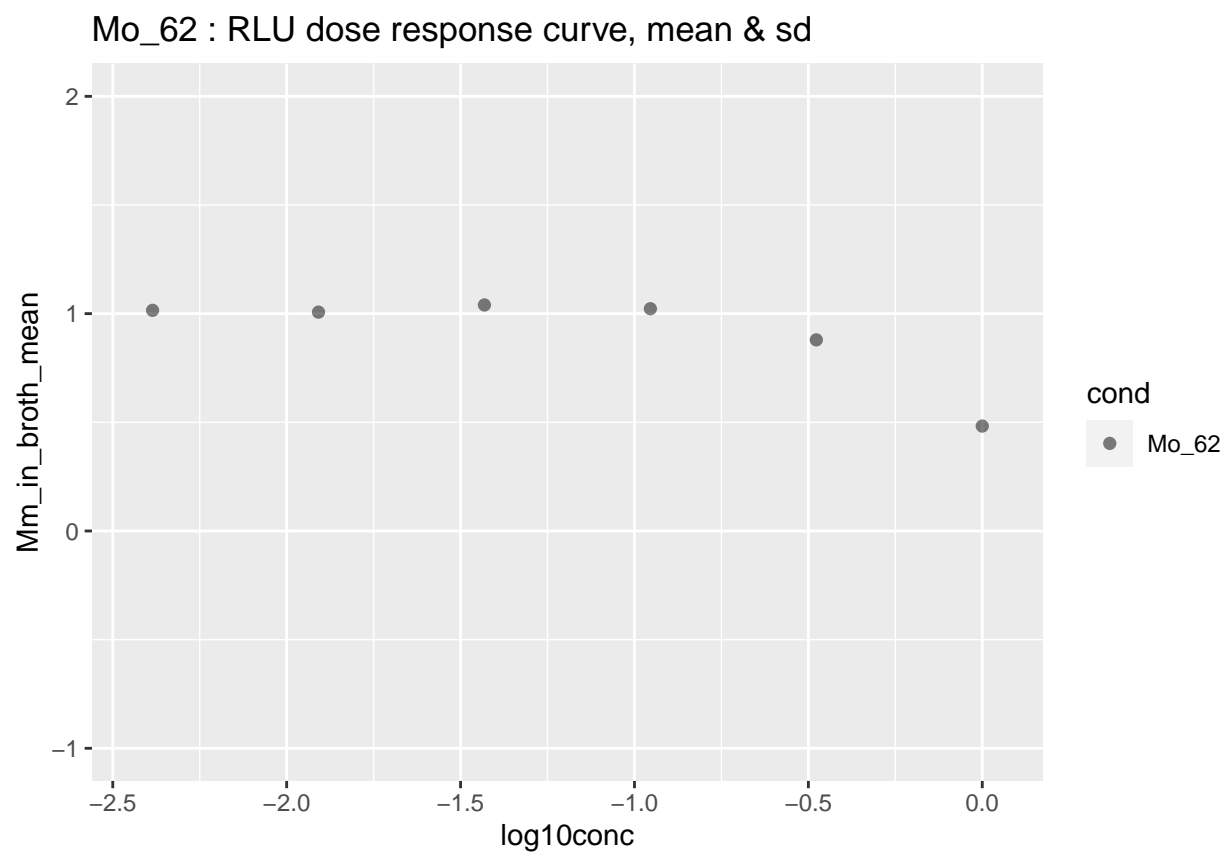


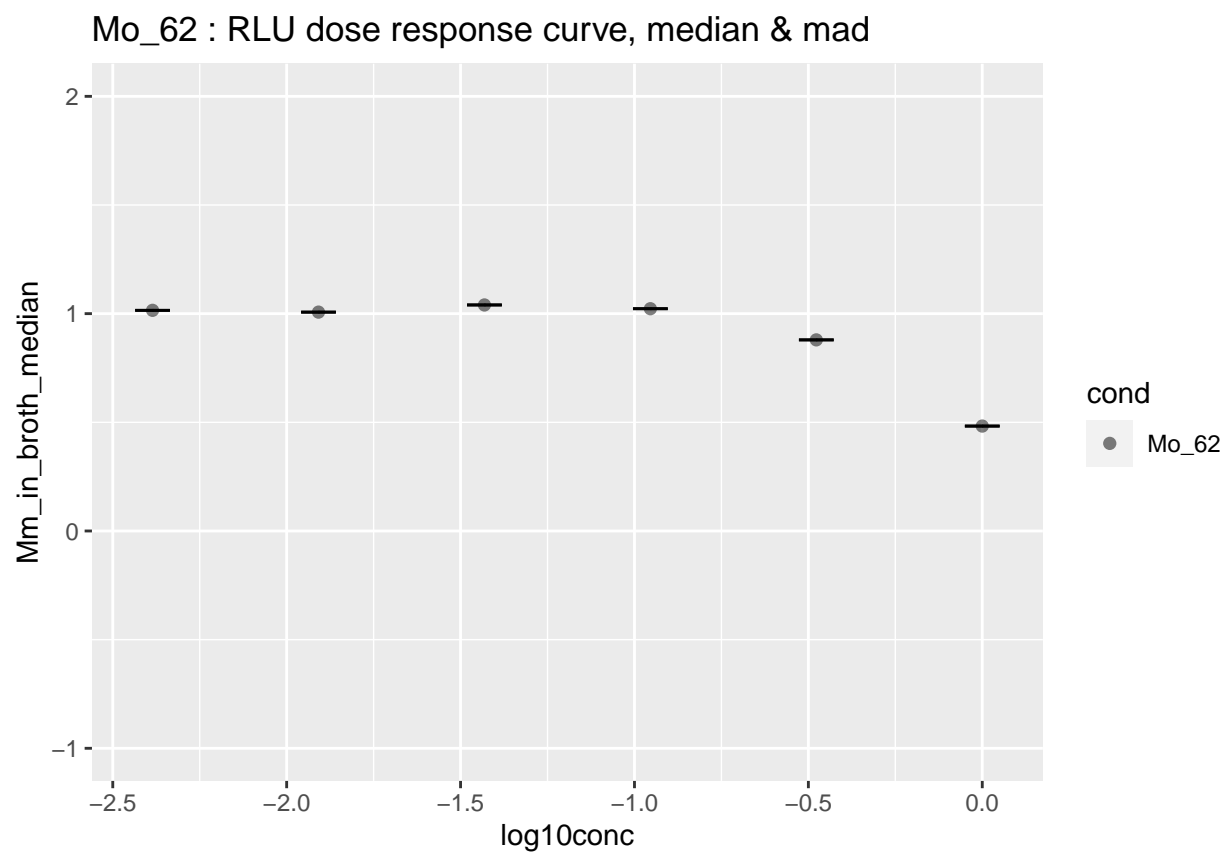
Ko_58 : RLU dose response curve, median & mad

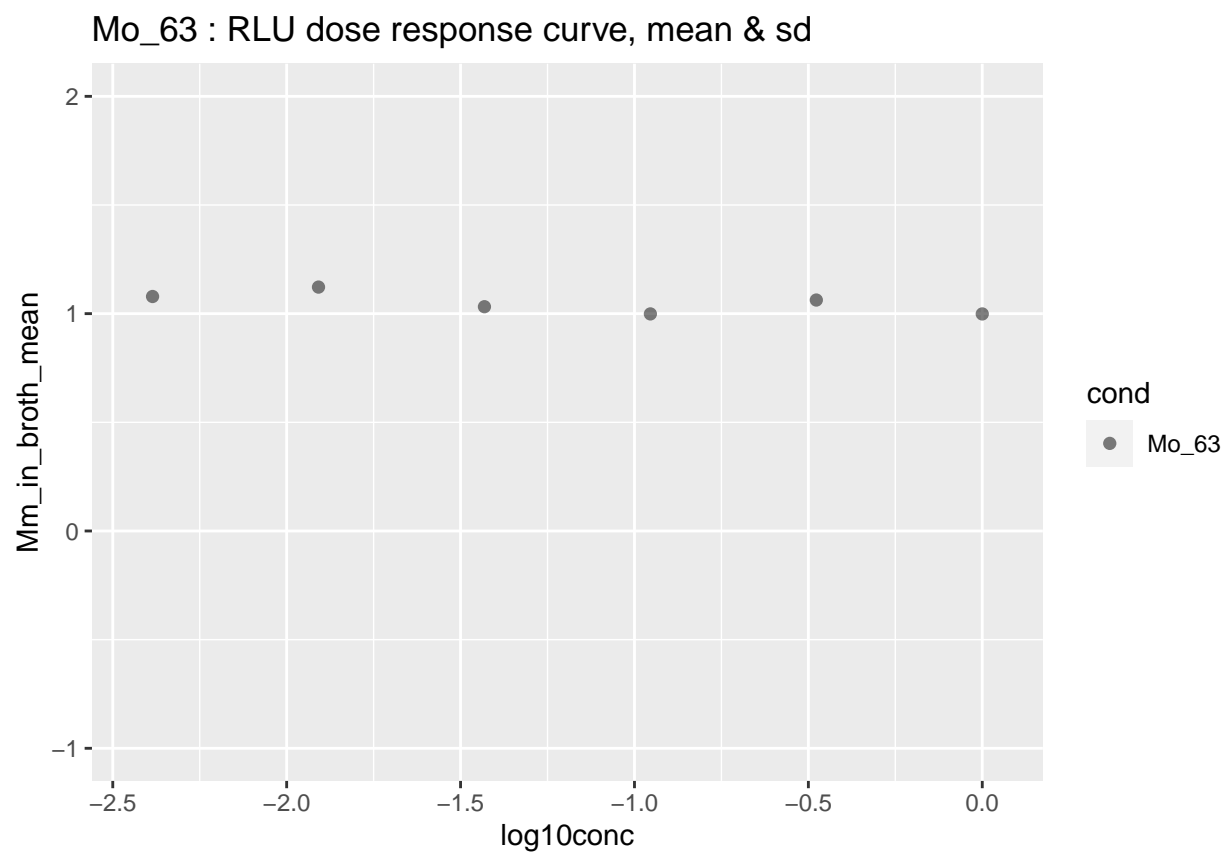




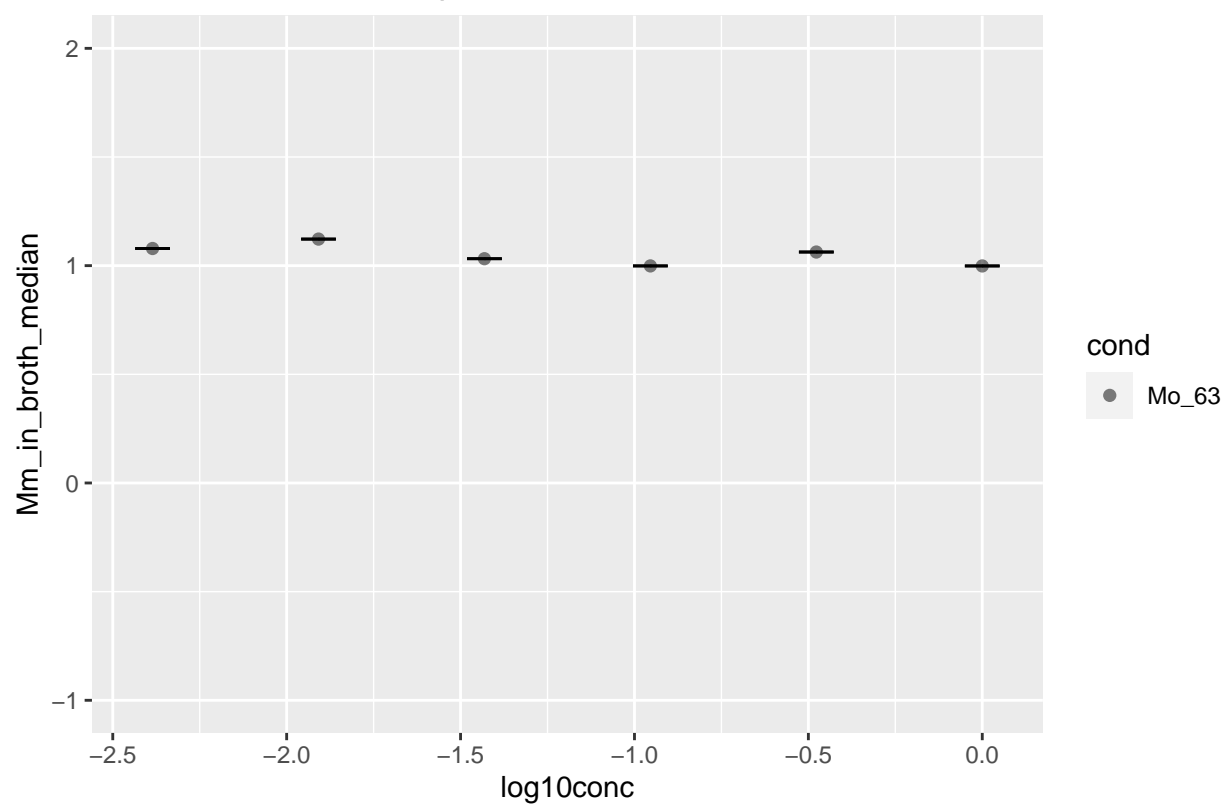


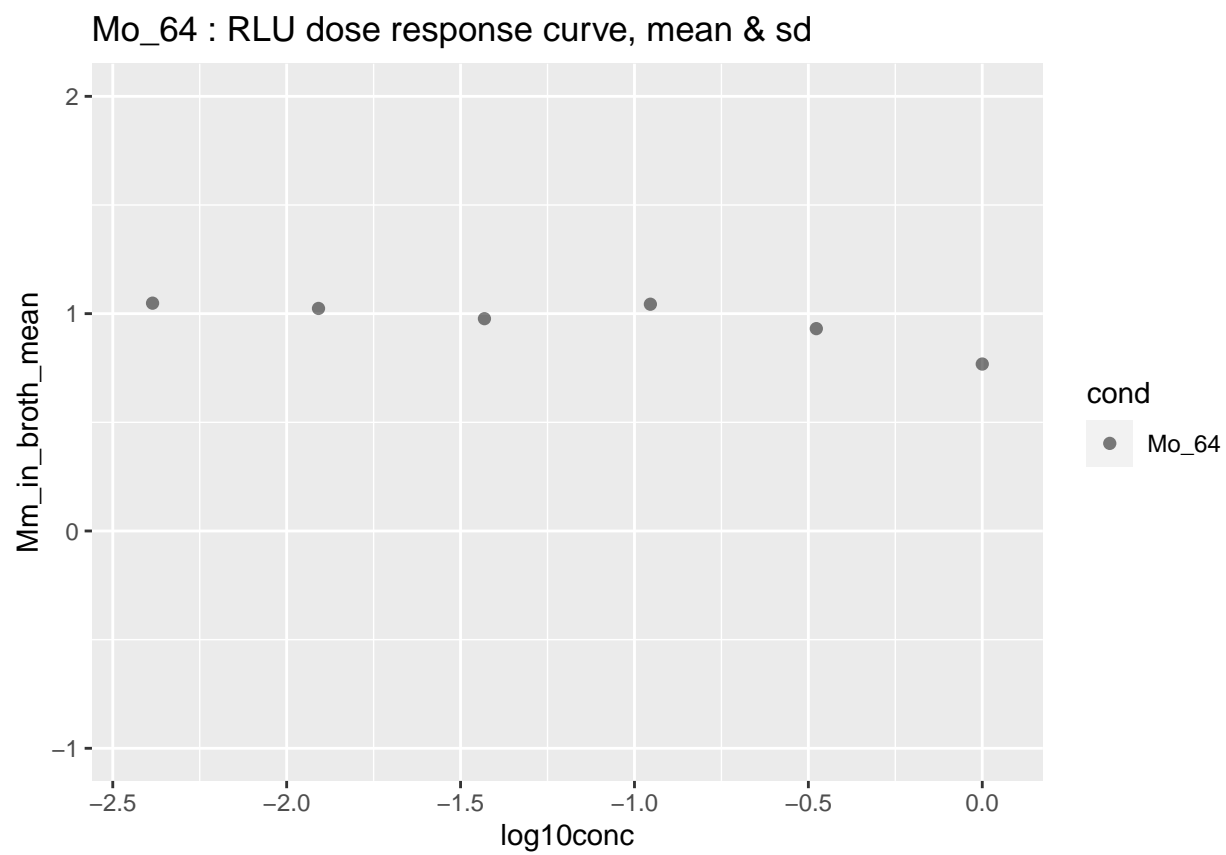




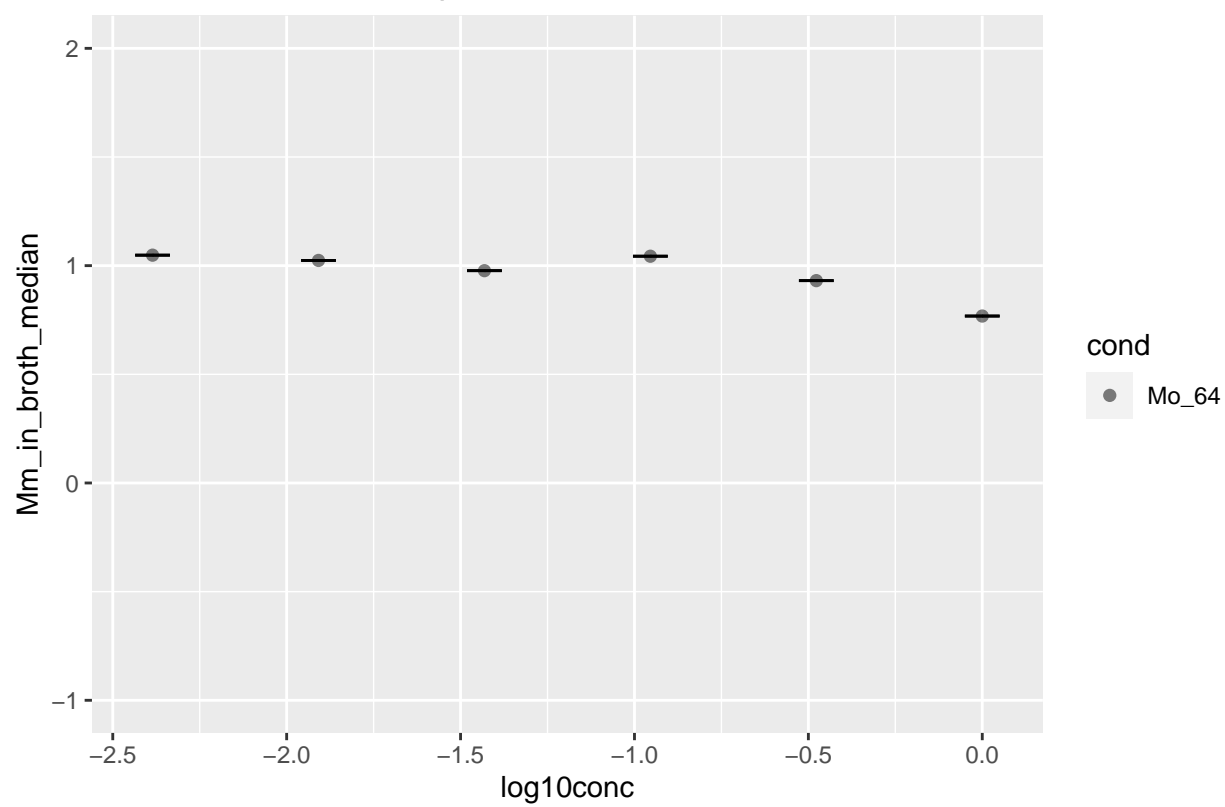


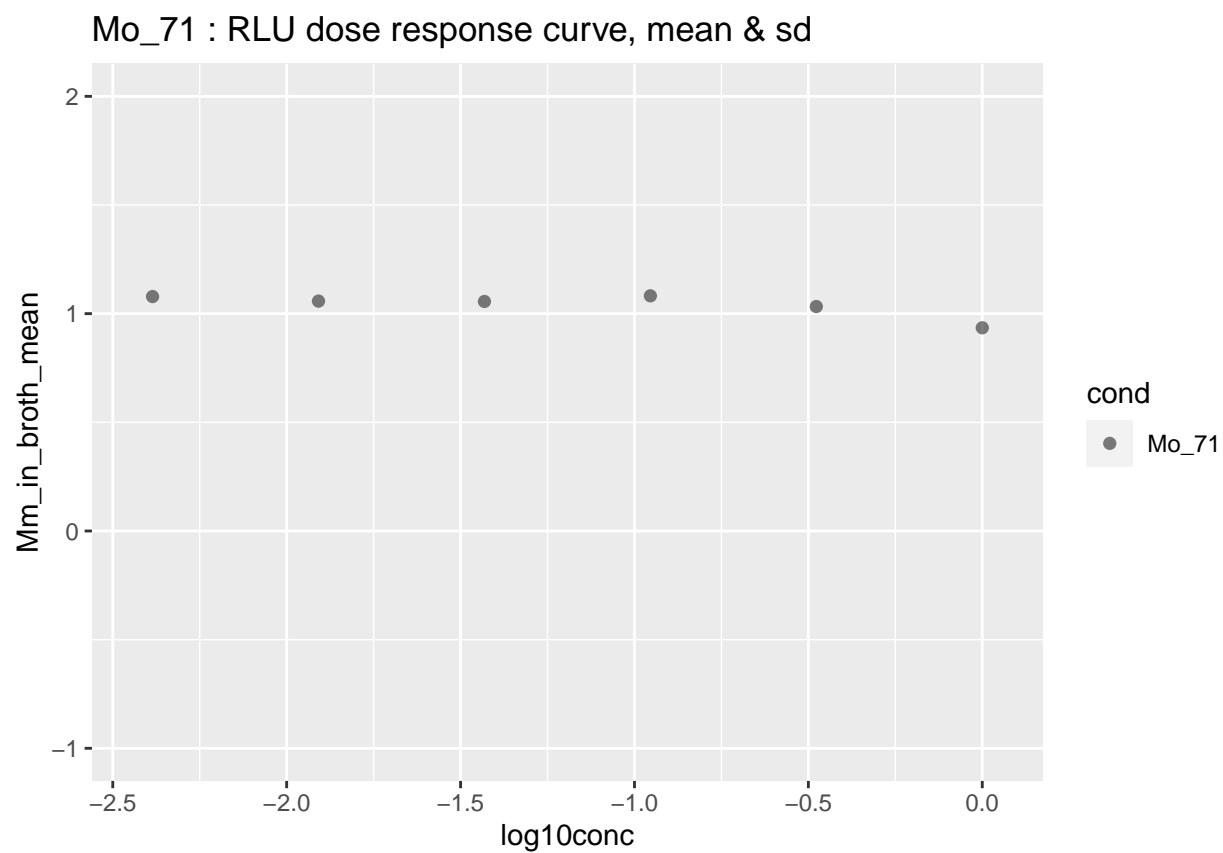
Mo_63 : RLU dose response curve, median & mad

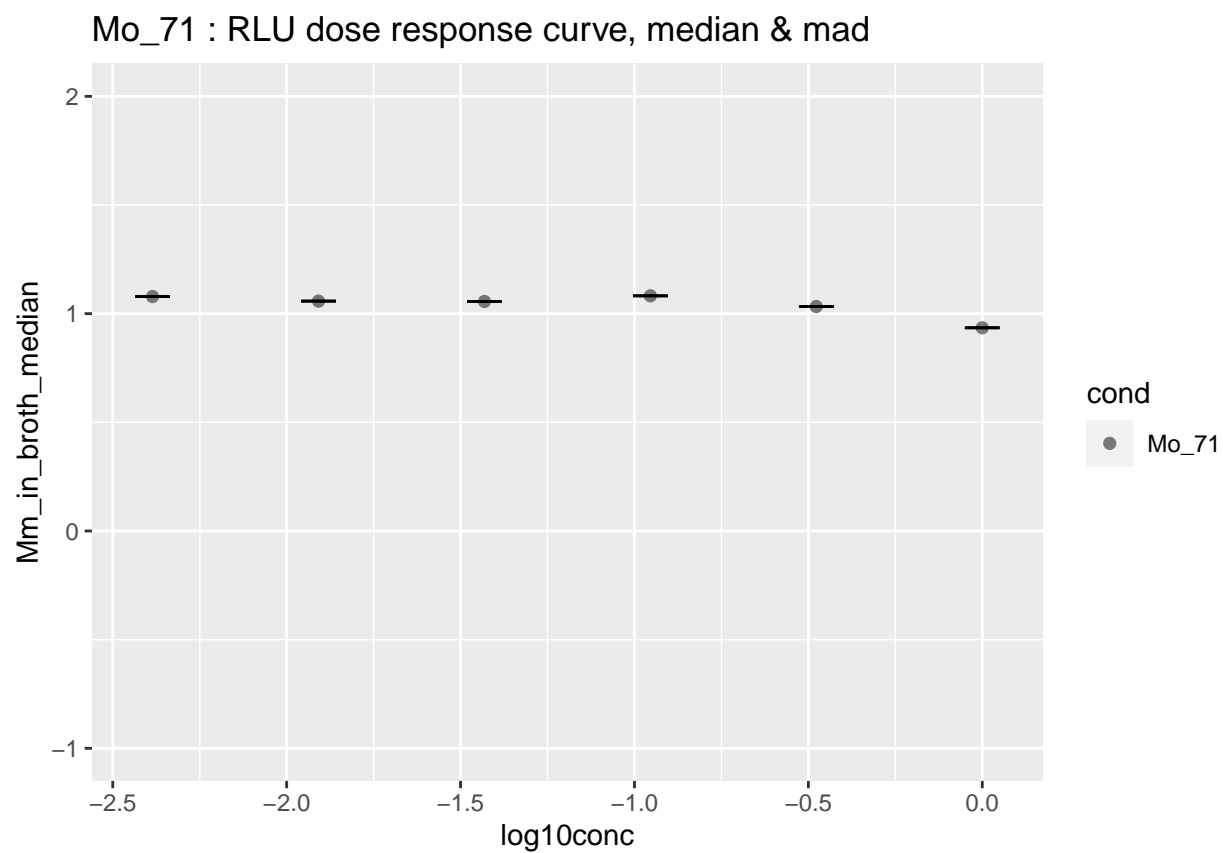


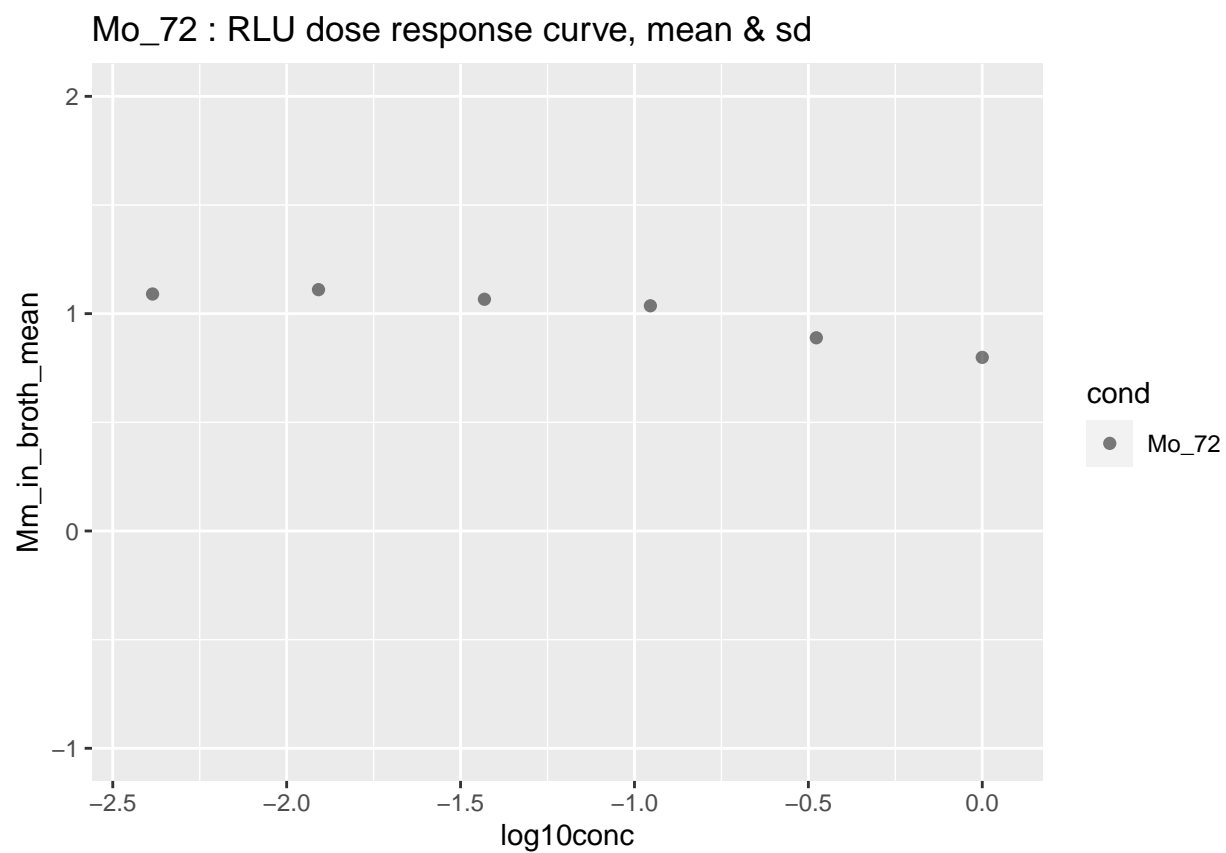


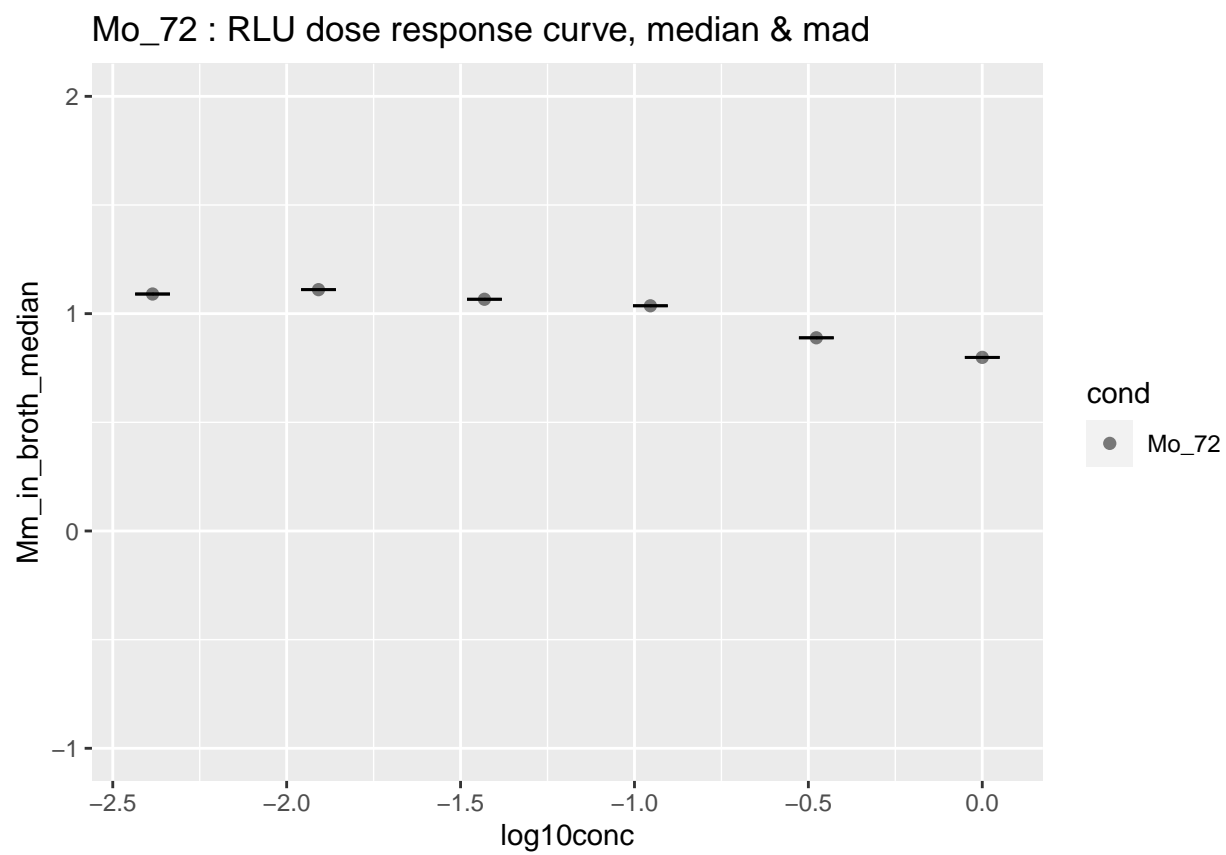
Mo_64 : RLU dose response curve, median & mad



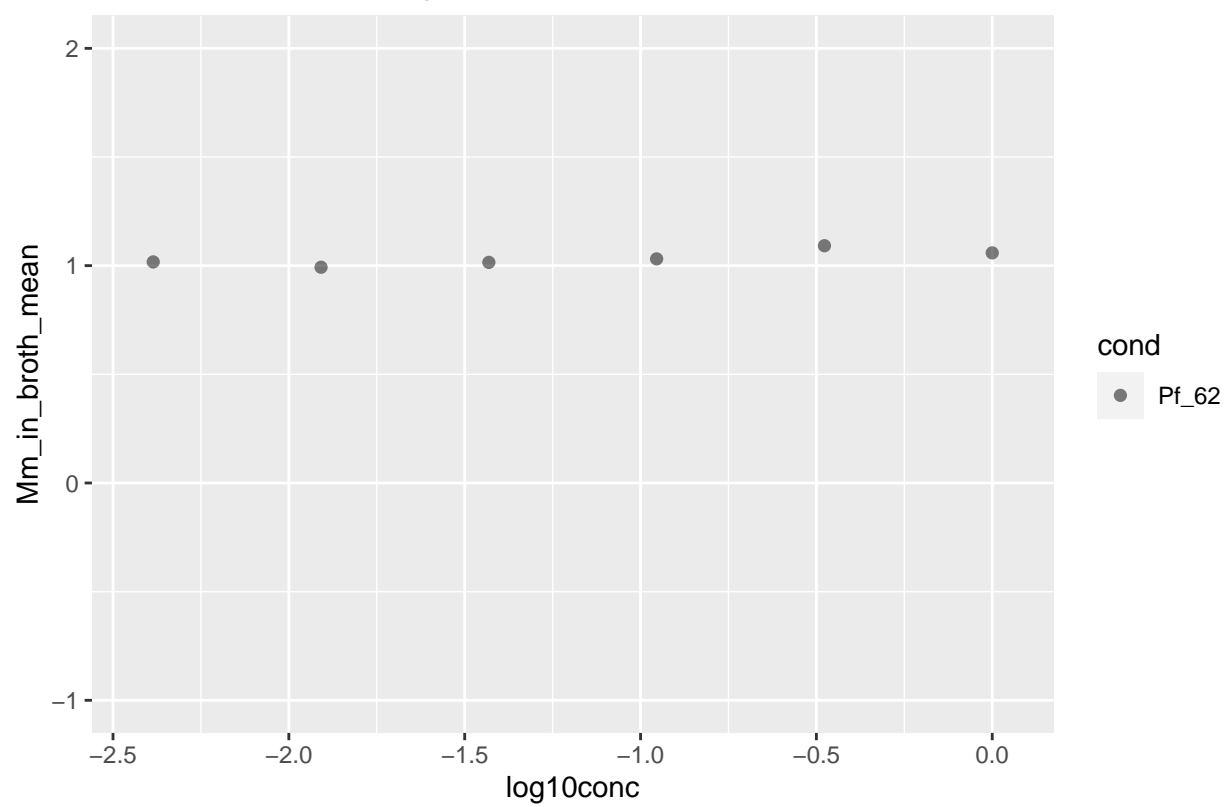


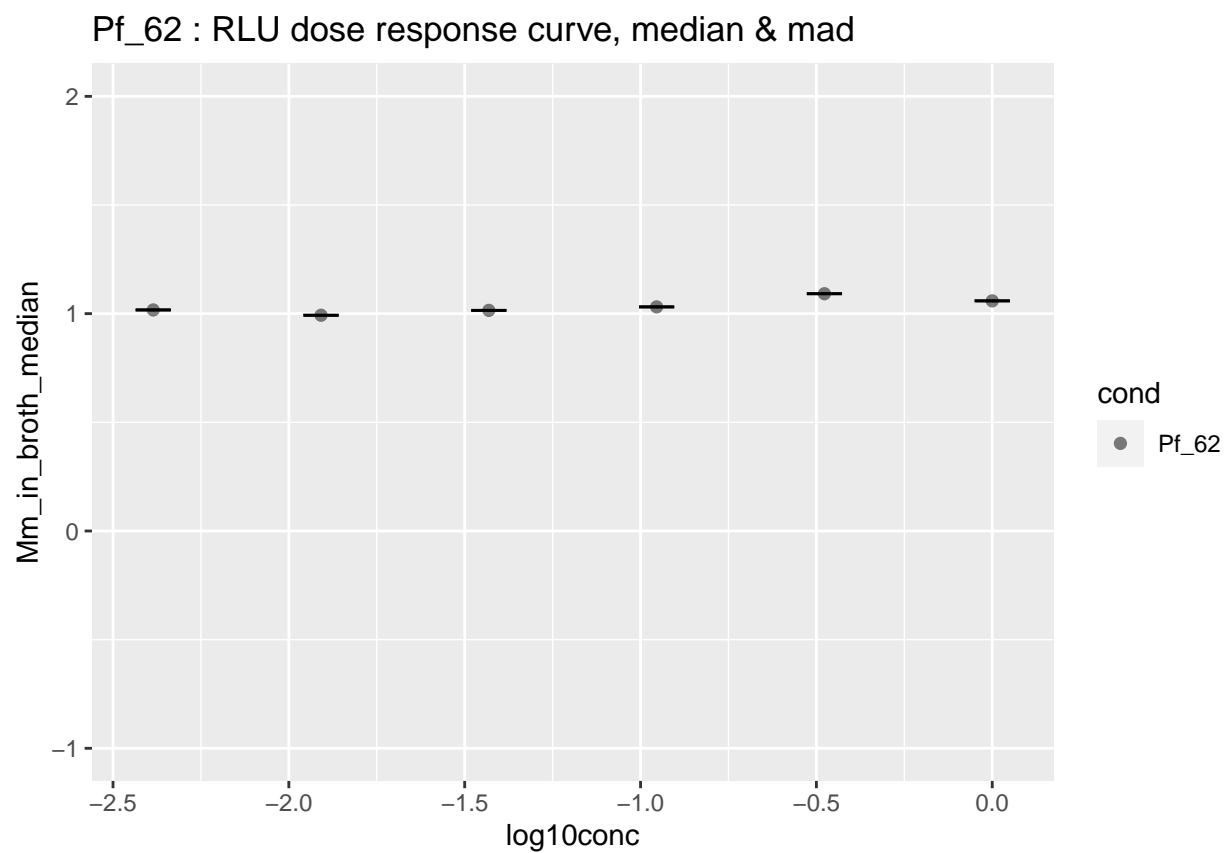


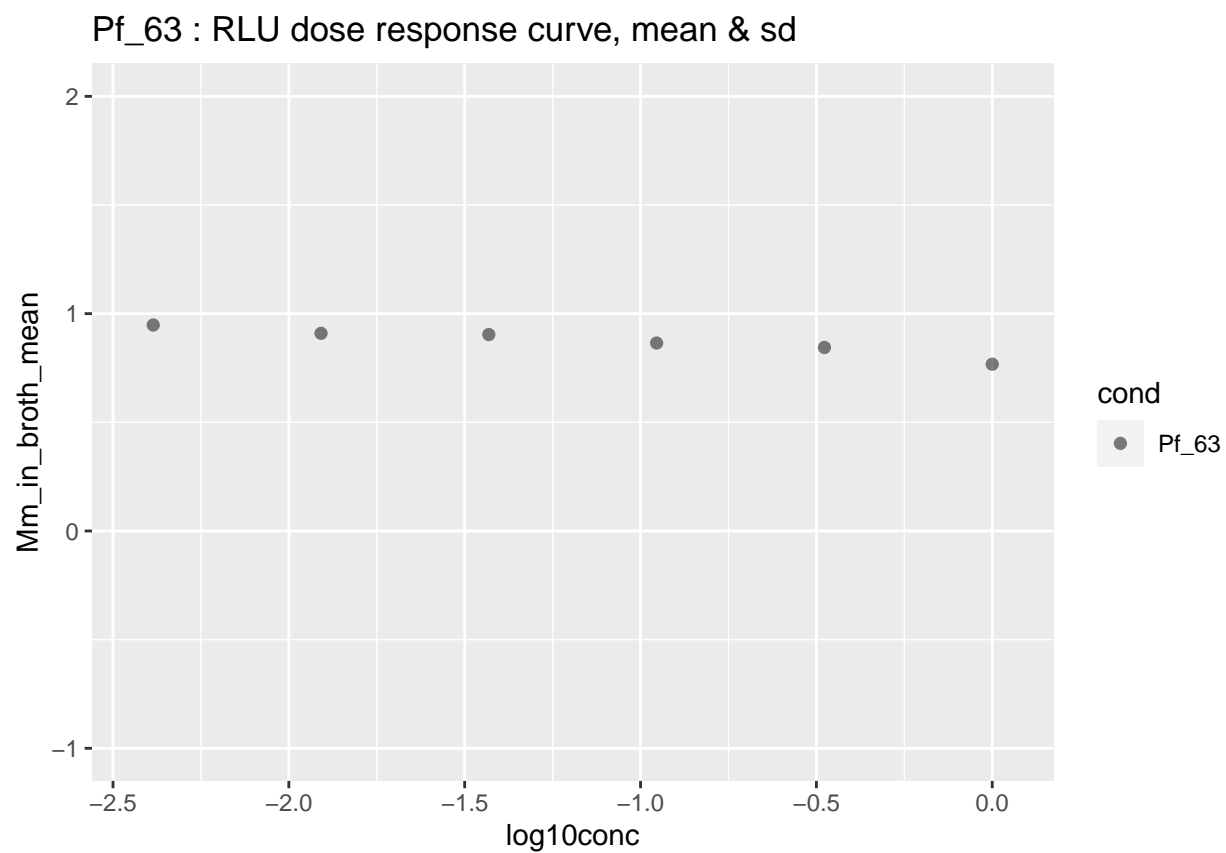




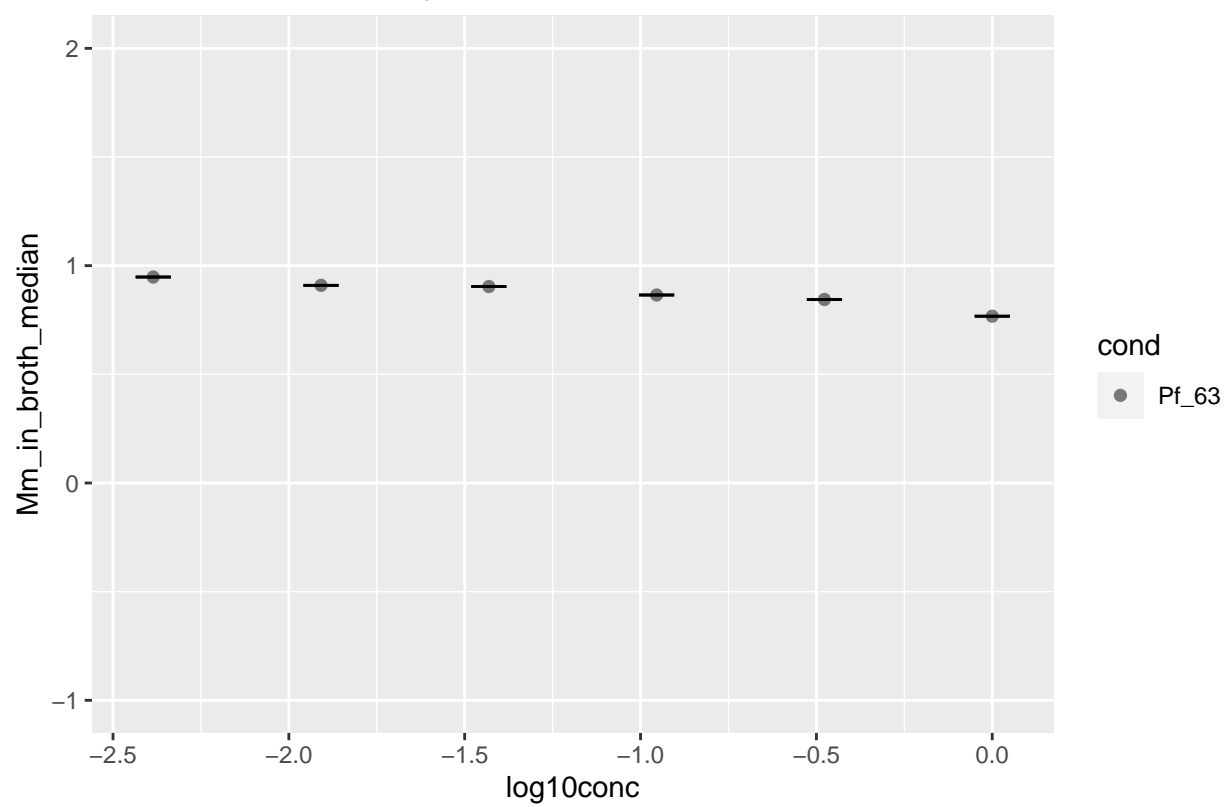
Pf_62 : RLU dose response curve, mean & sd

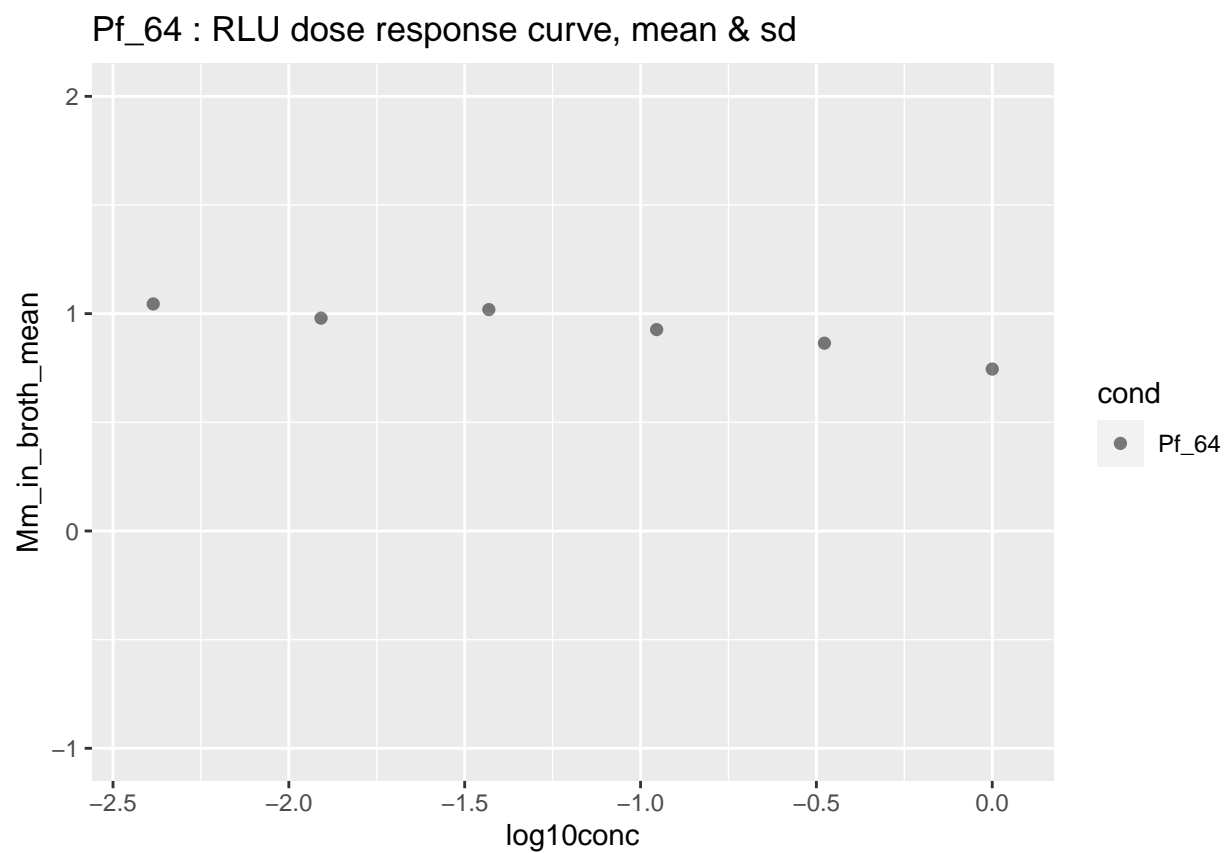


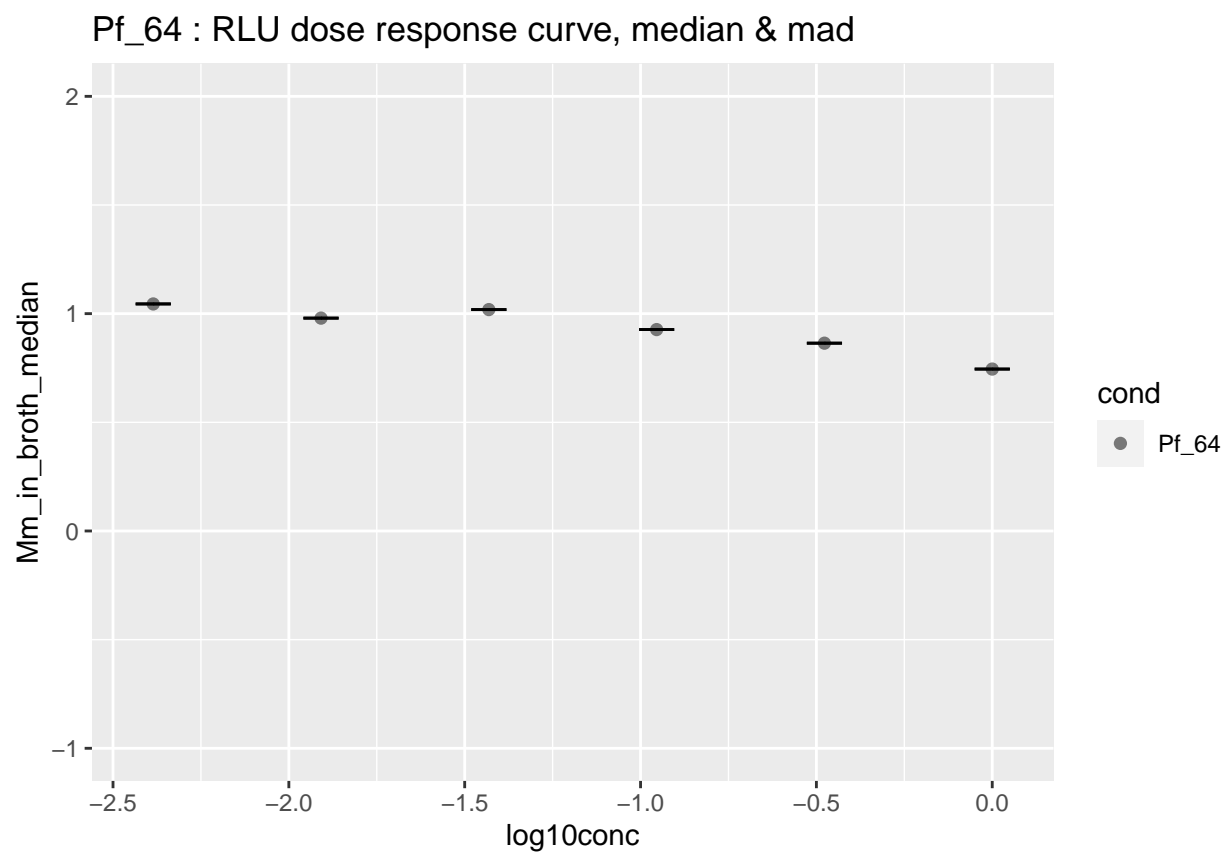


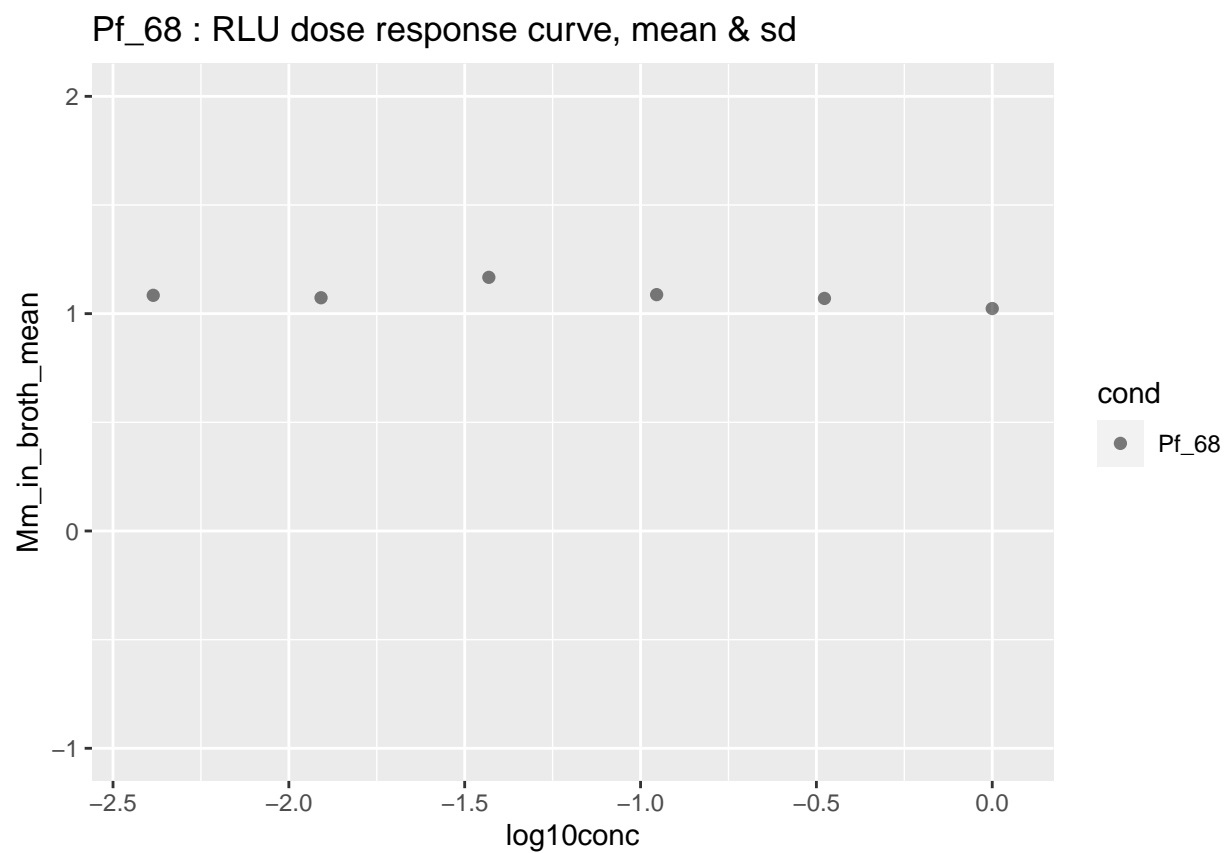


Pf_63 : RLU dose response curve, median & mad

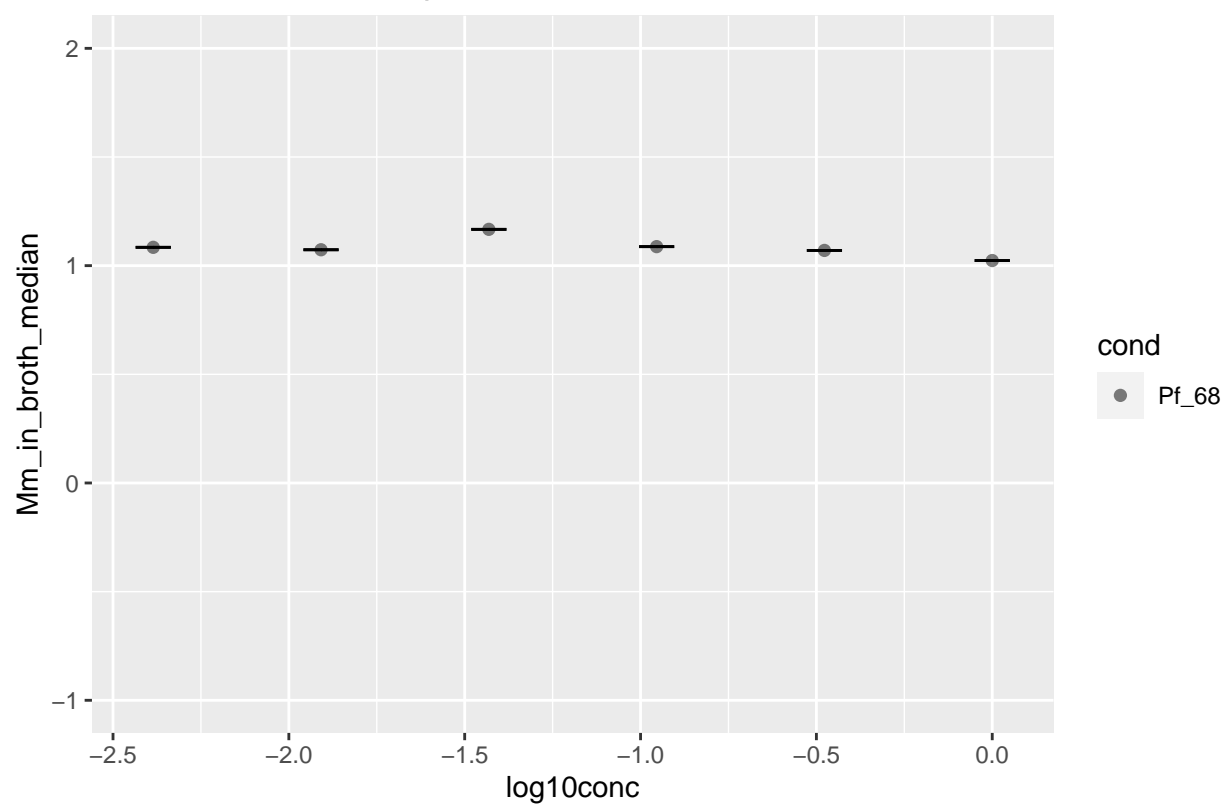




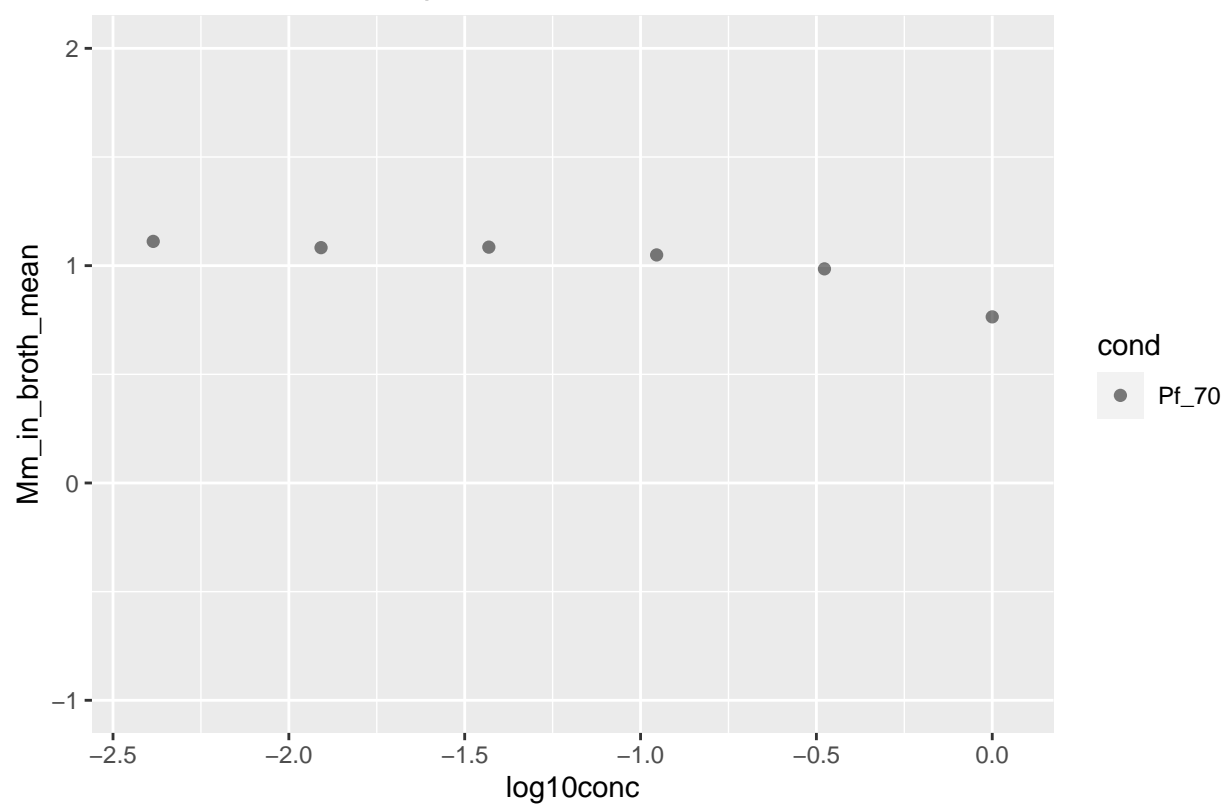




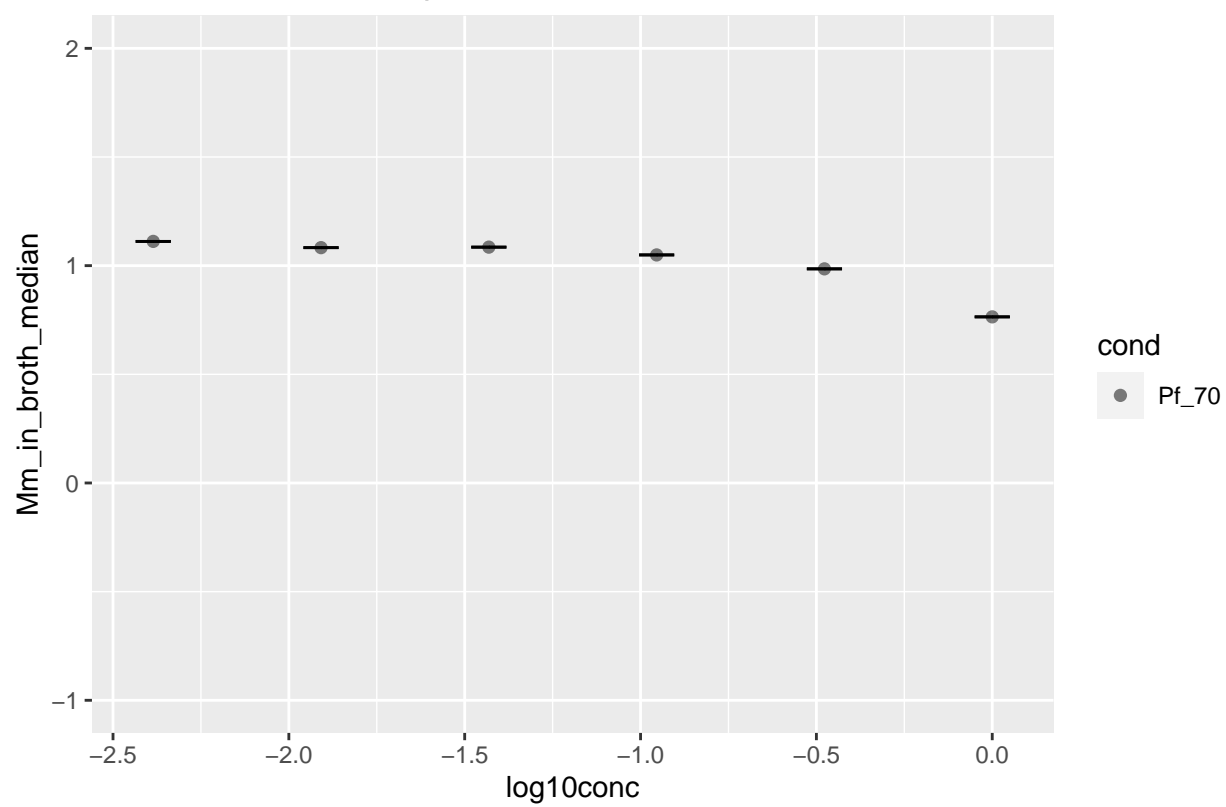
Pf_68 : RLU dose response curve, median & mad

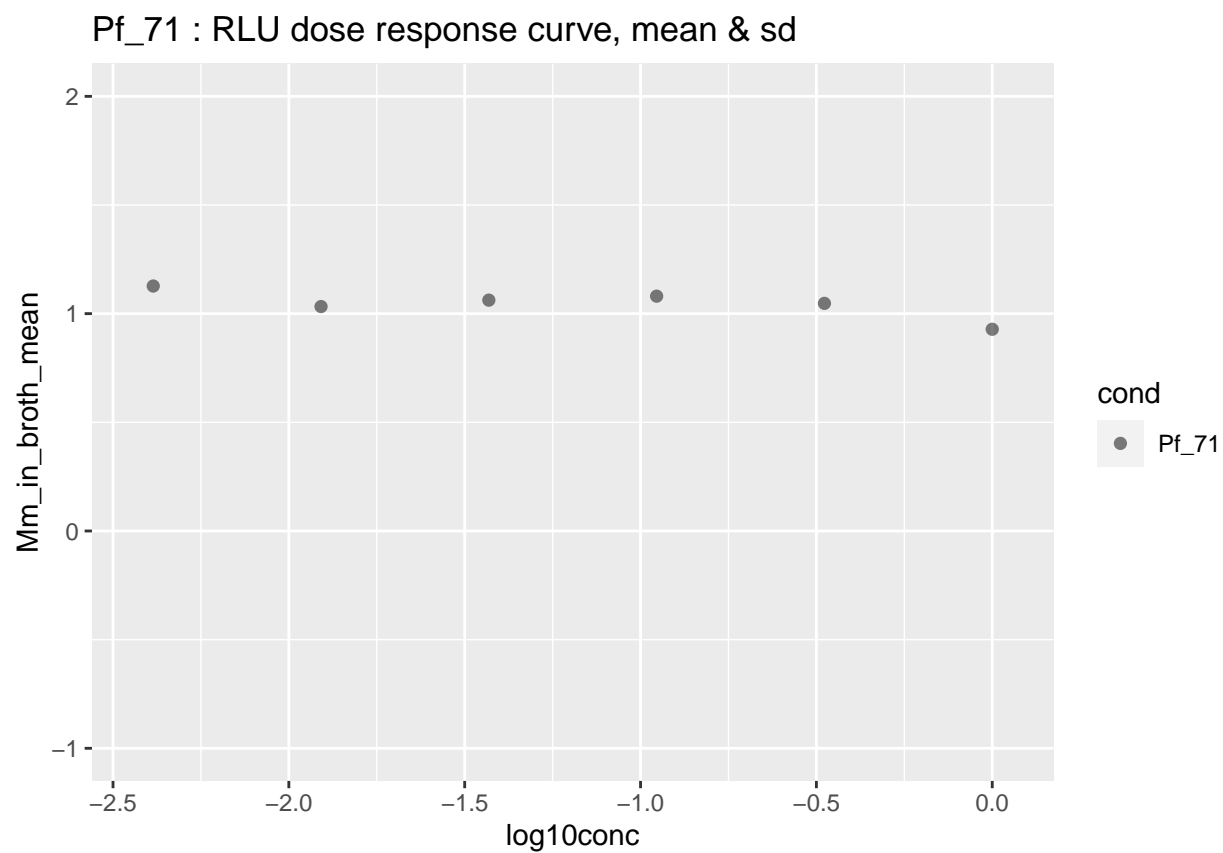


Pf_70 : RLU dose response curve, mean & sd

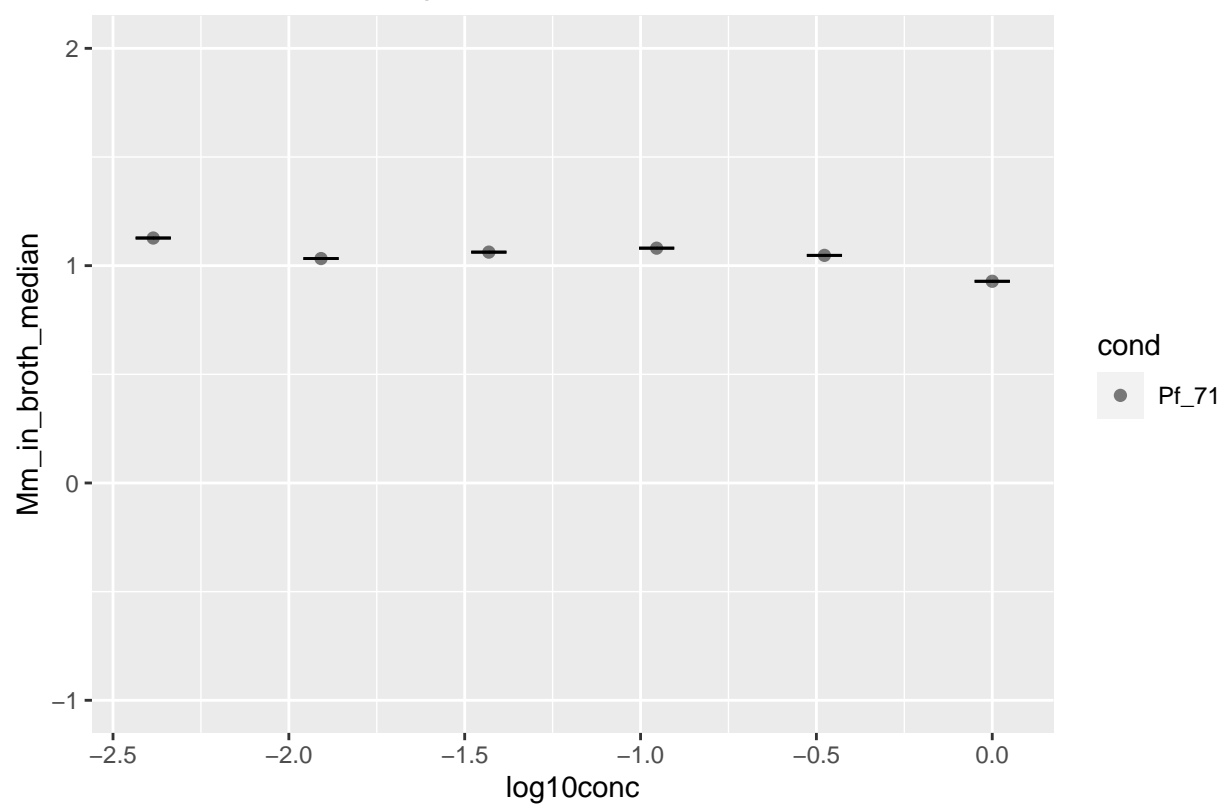


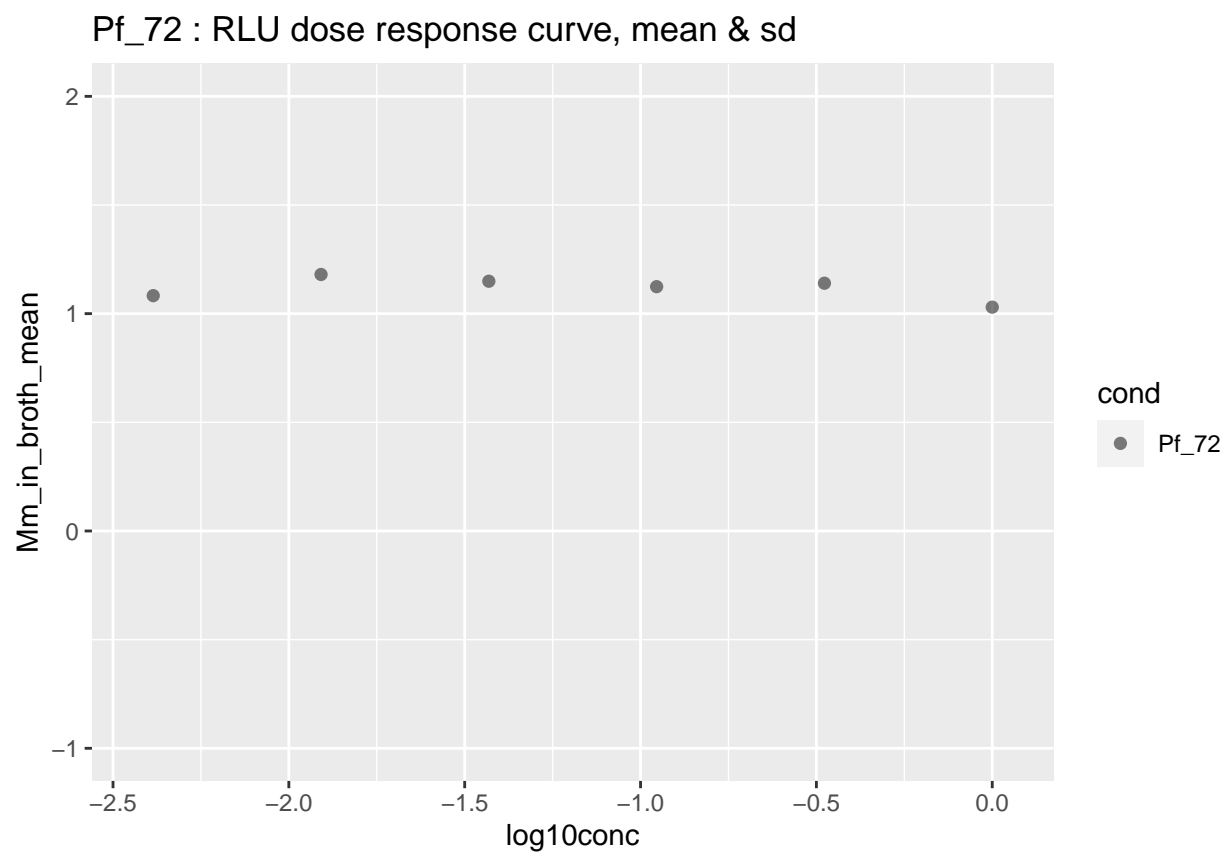
Pf_70 : RLU dose response curve, median & mad

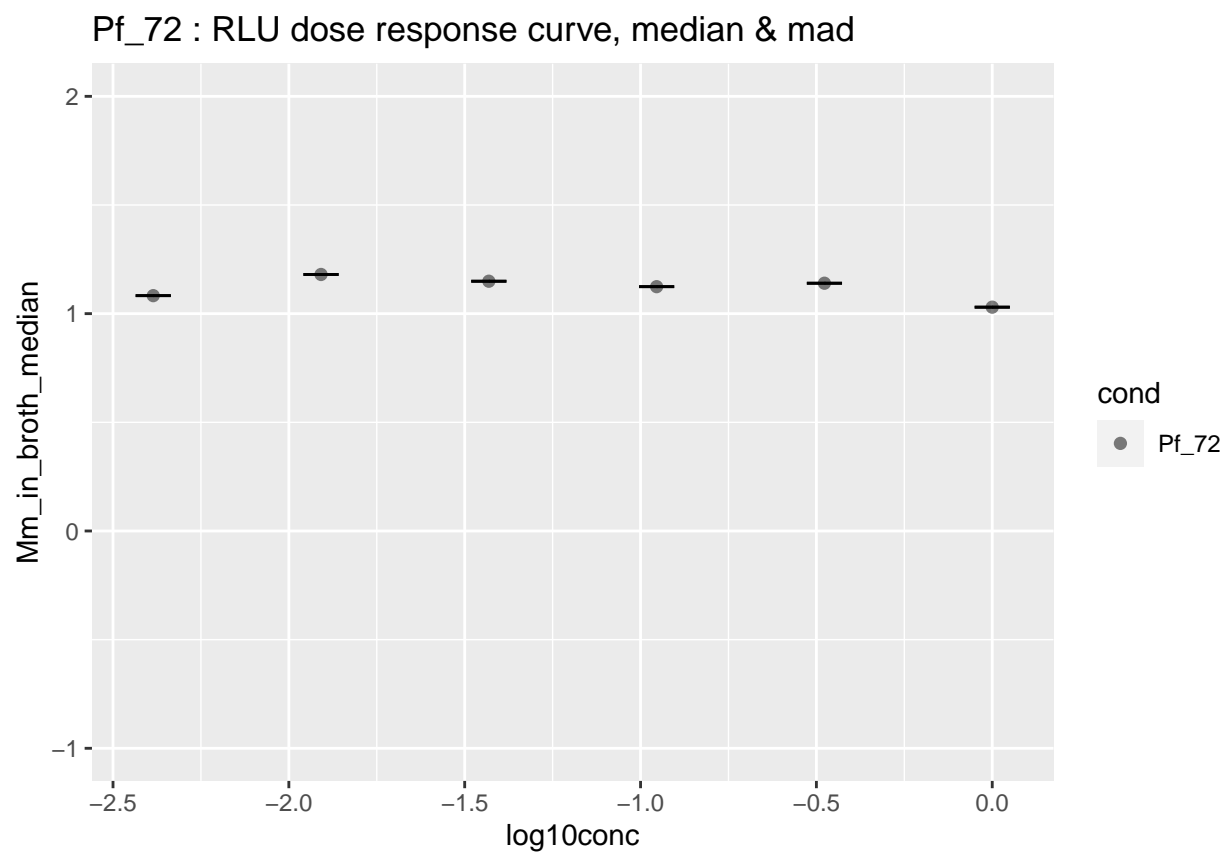


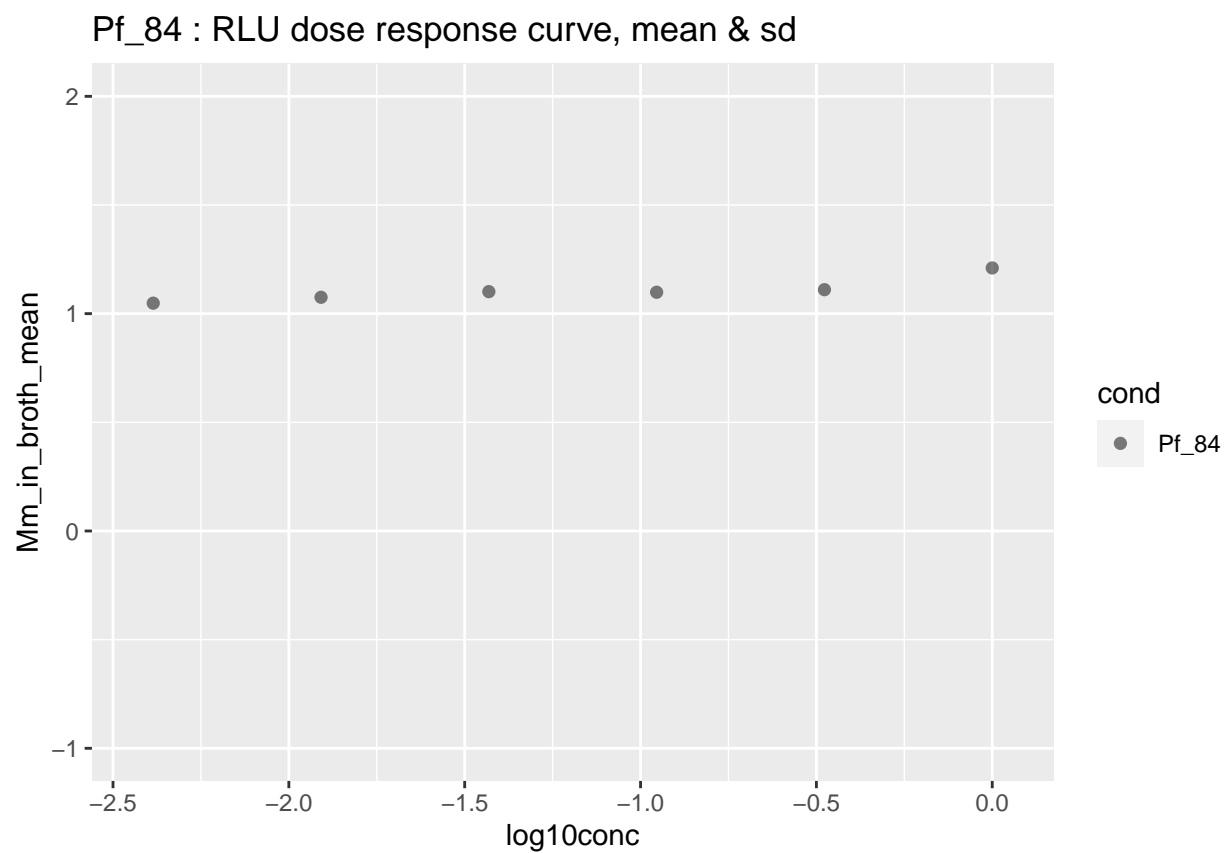


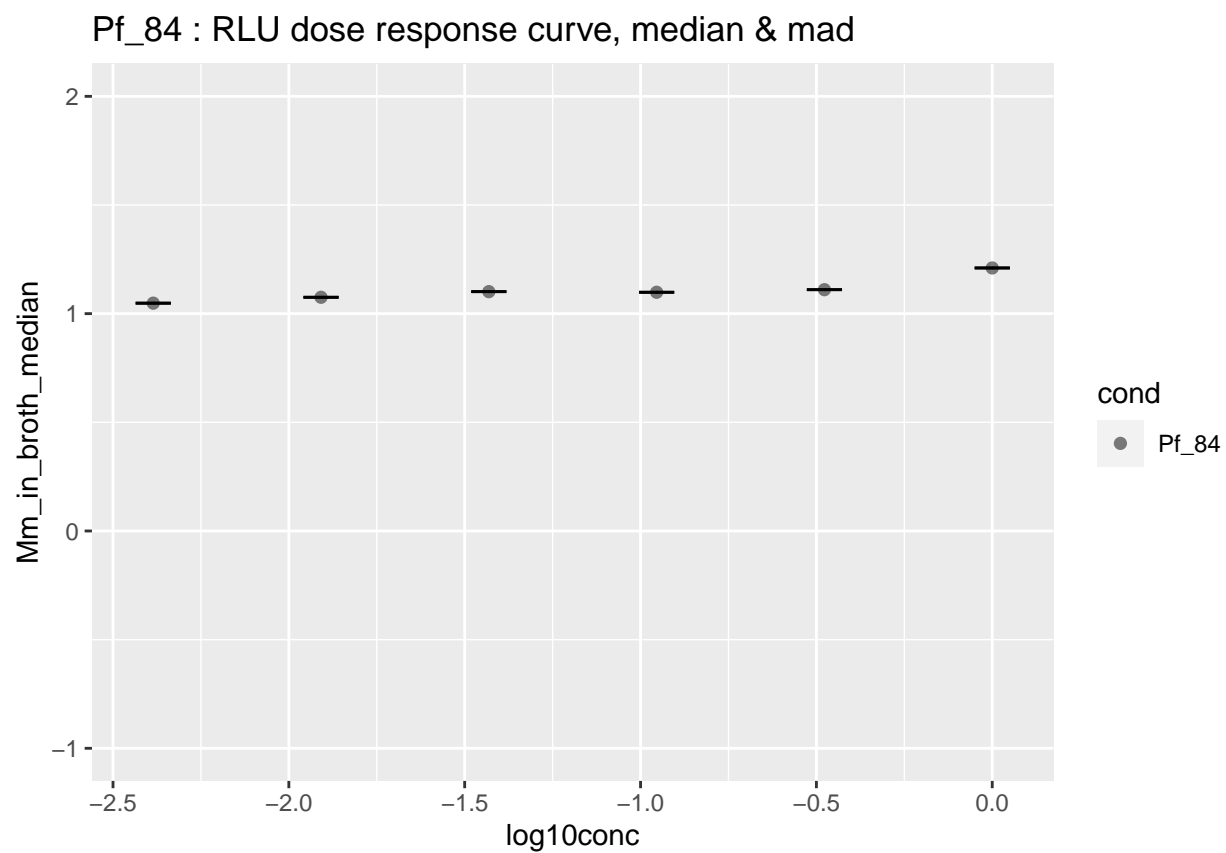
Pf_71 : RLU dose response curve, median & mad



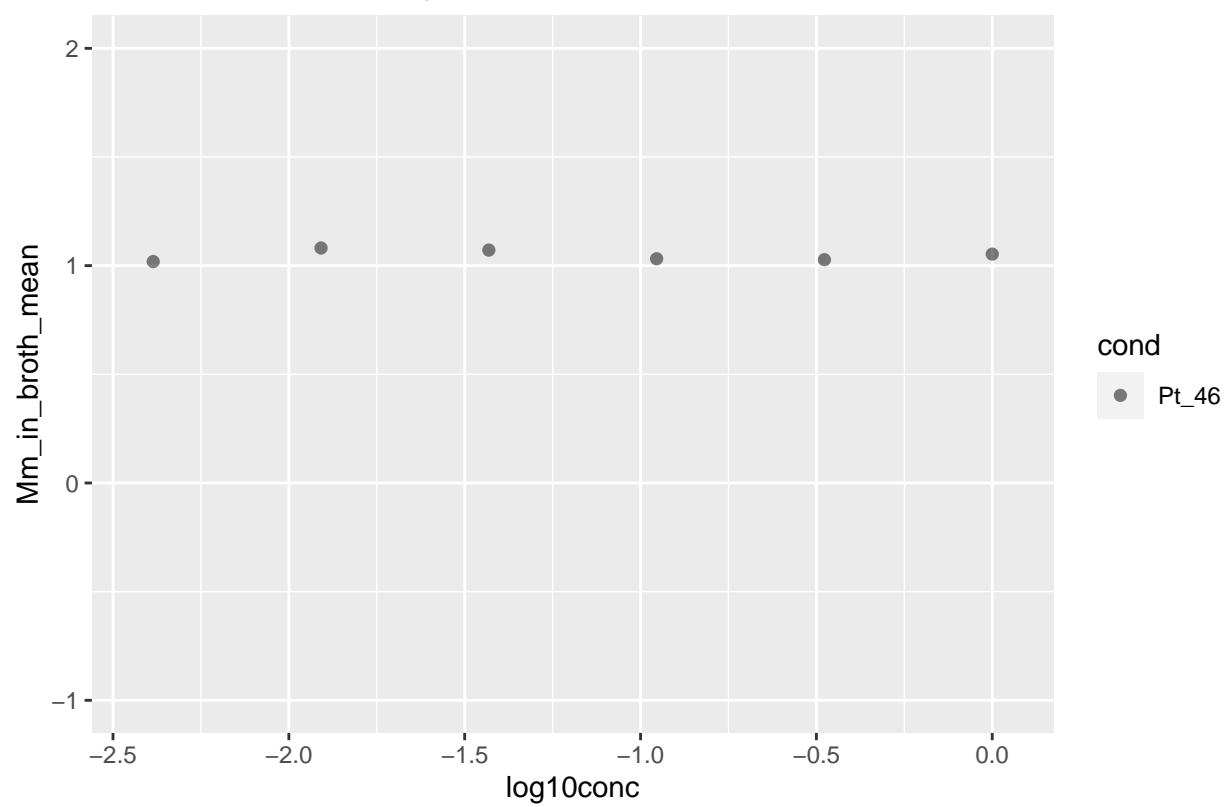




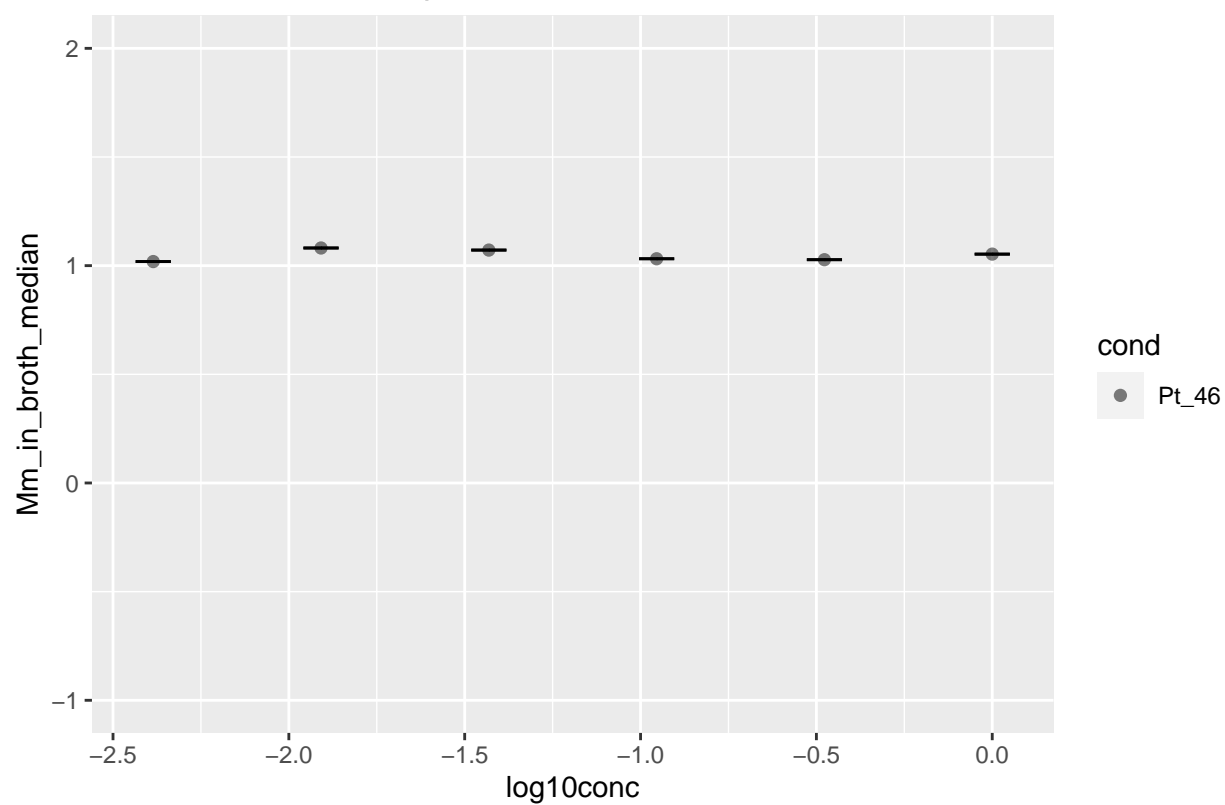


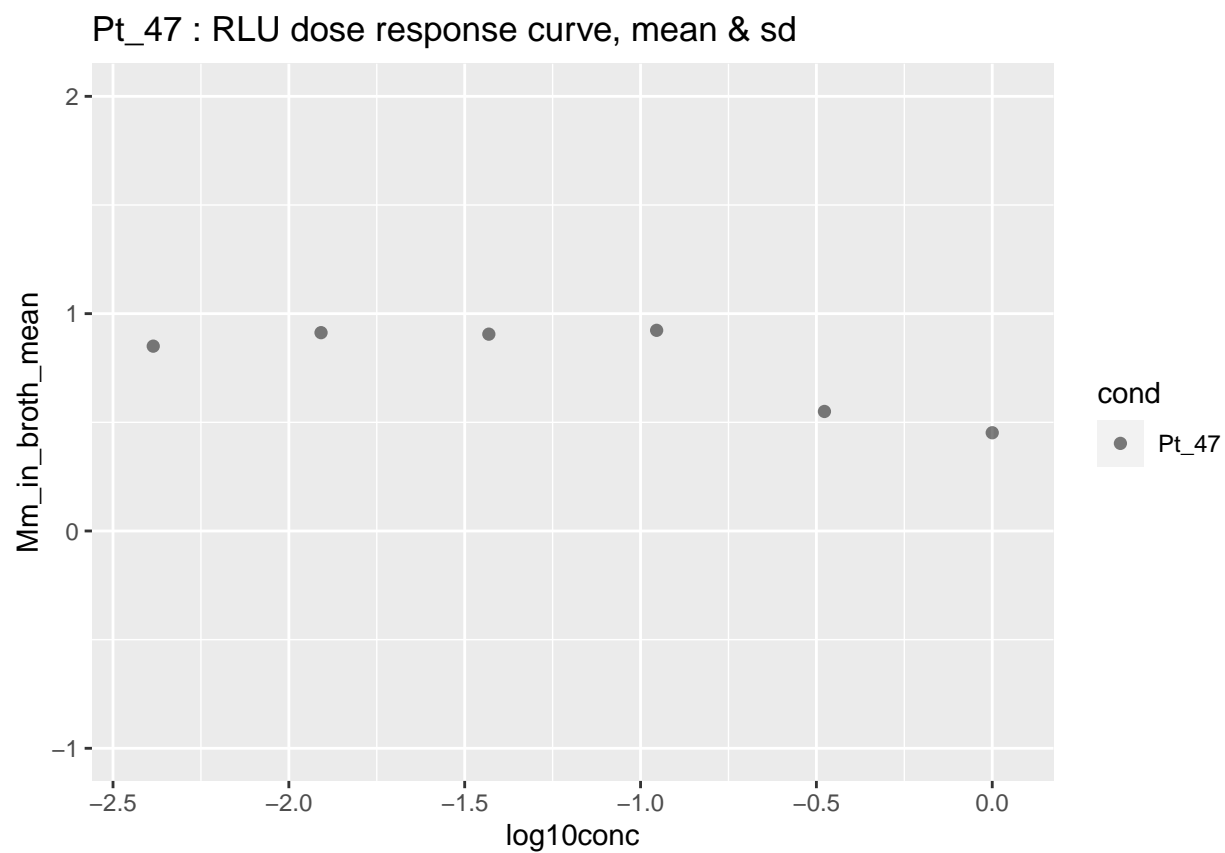


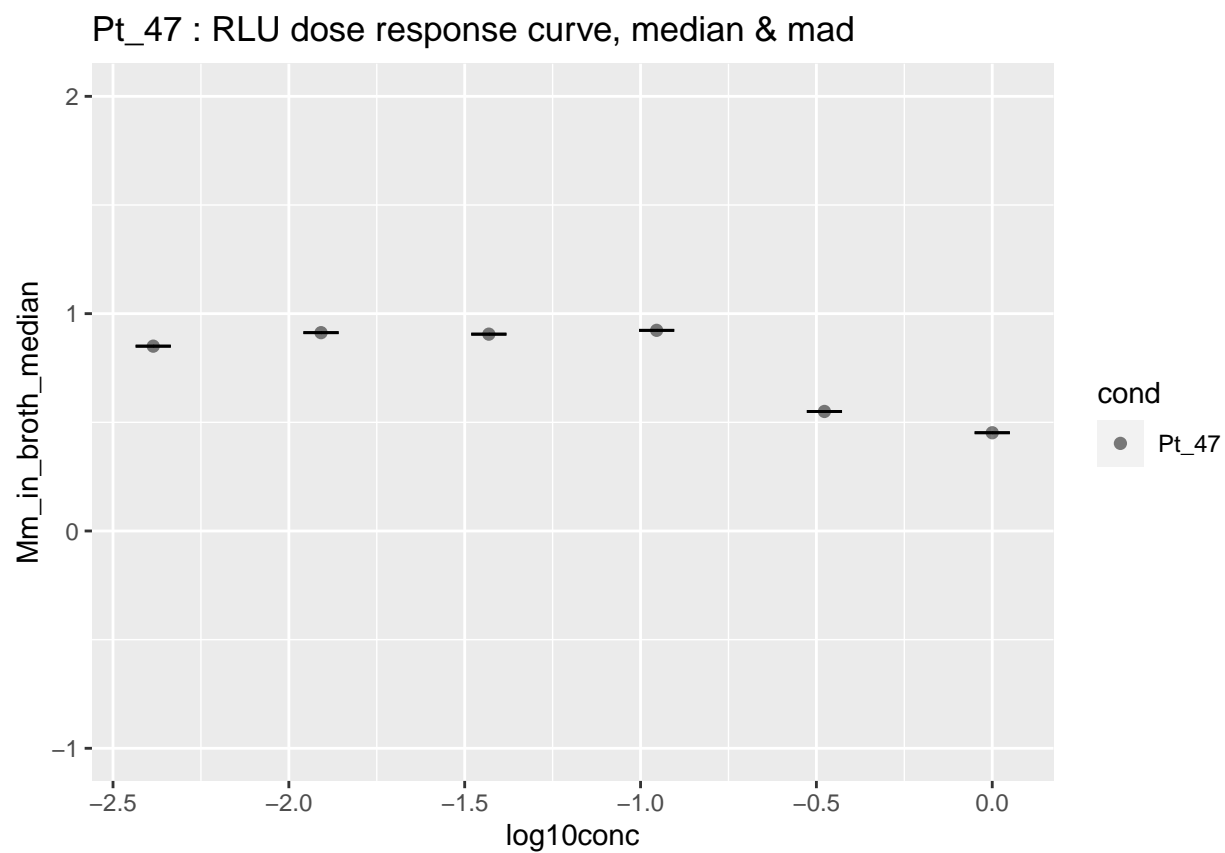
Pt_46 : RLU dose response curve, mean & sd



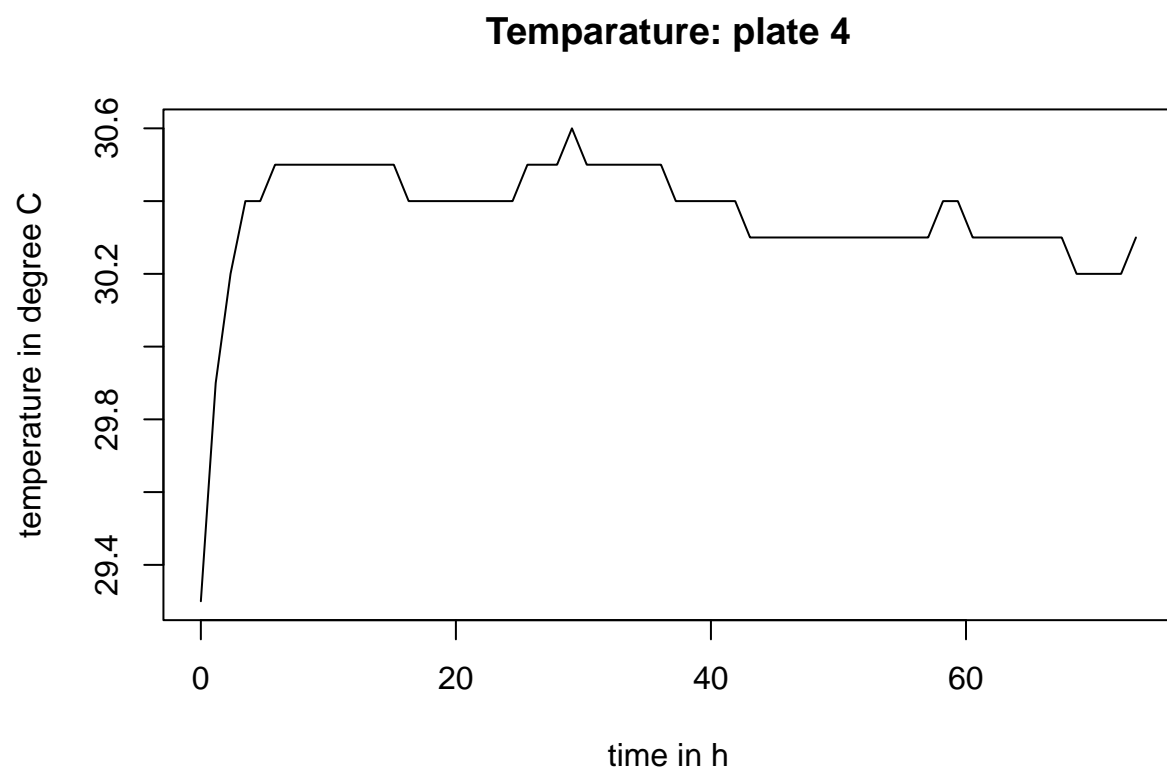
Pt_46 : RLU dose response curve, median & mad



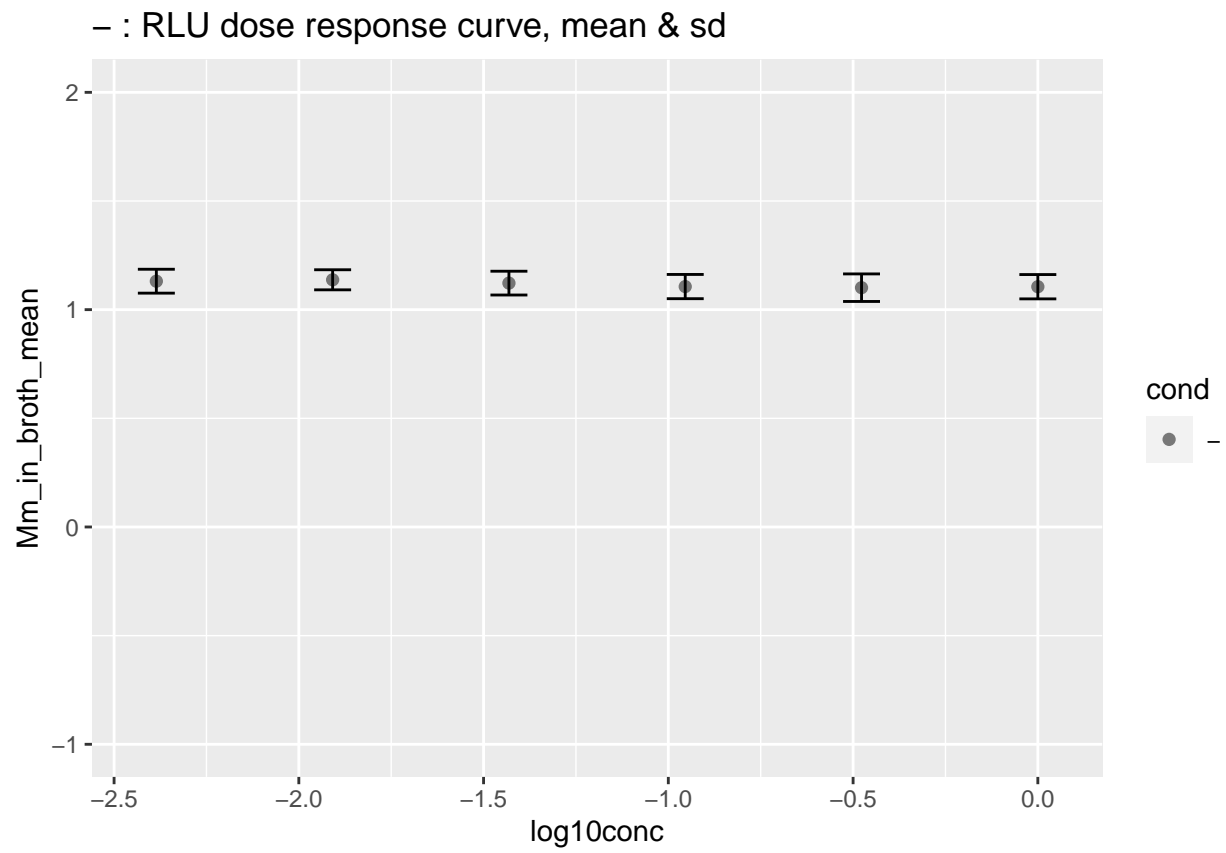


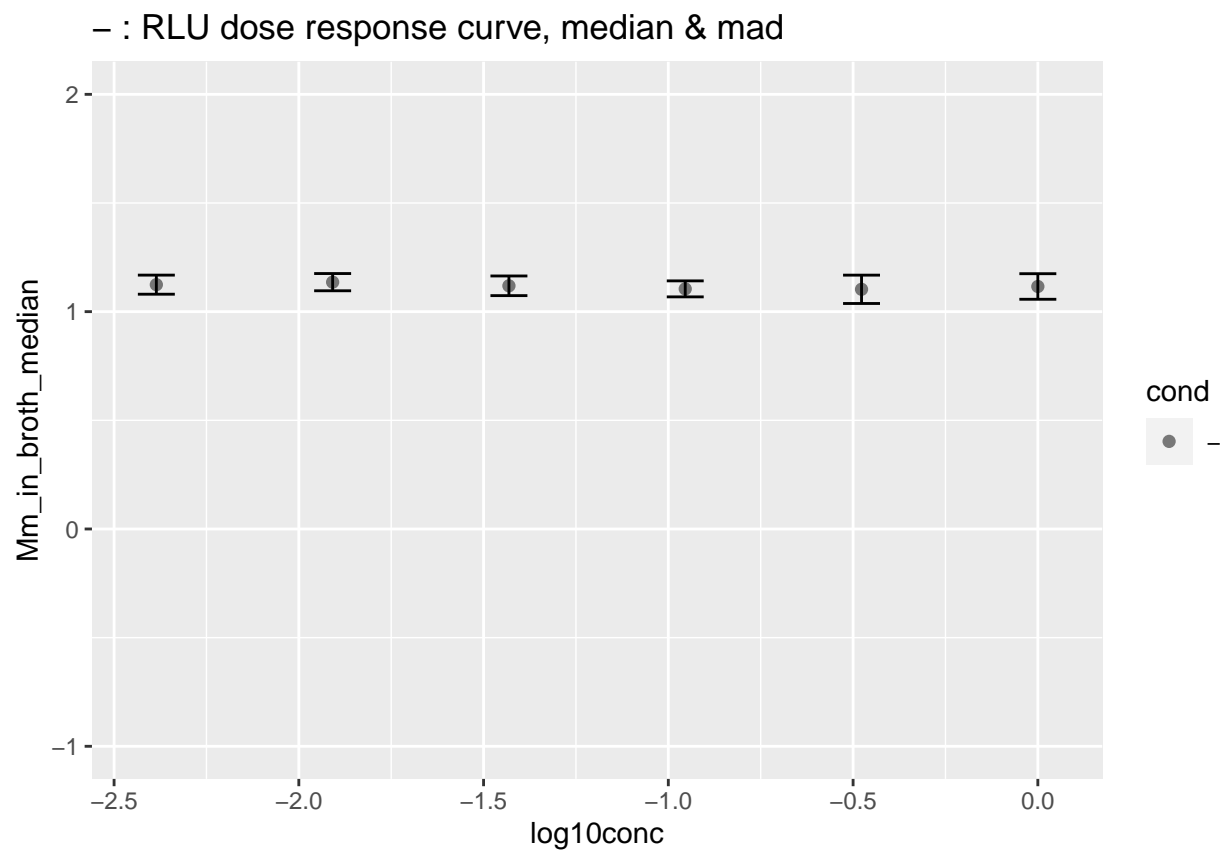


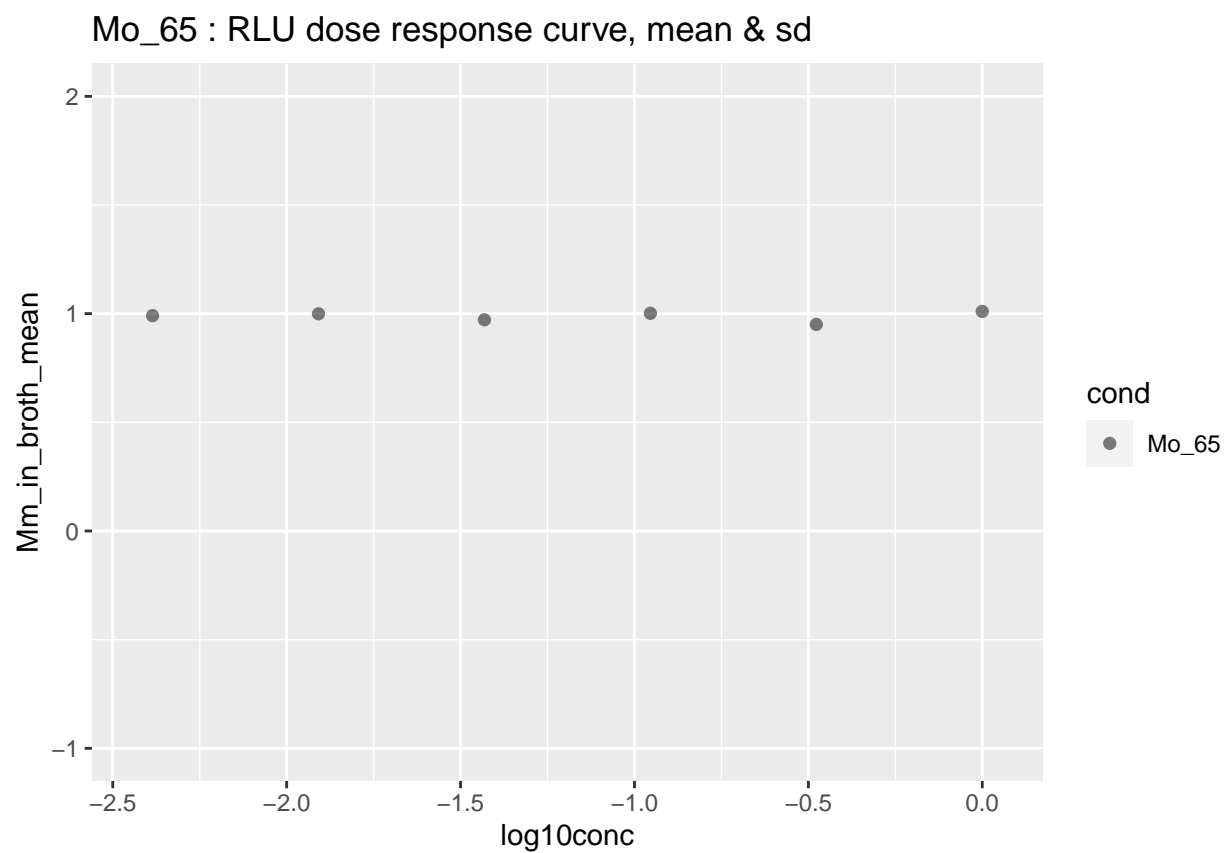
```
## [1] "analysis for plate05.xlsx"
```

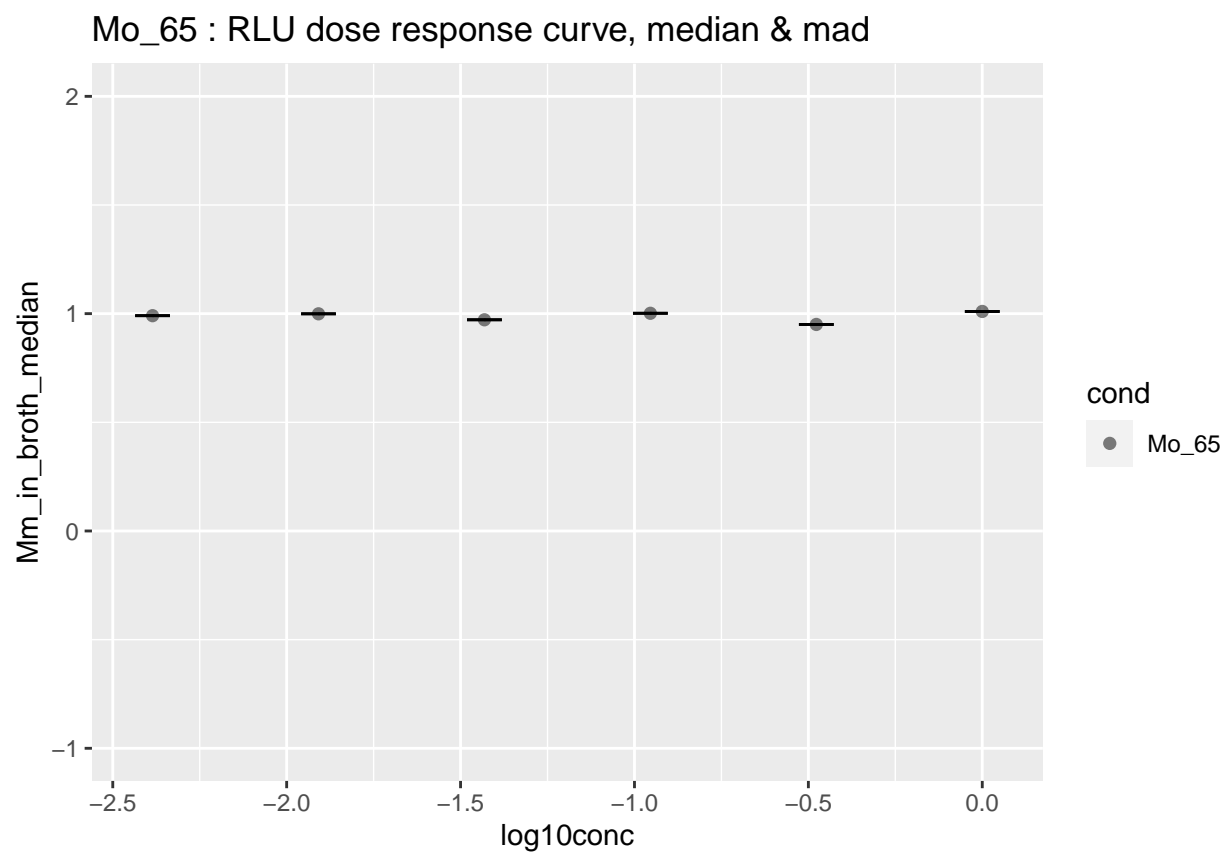


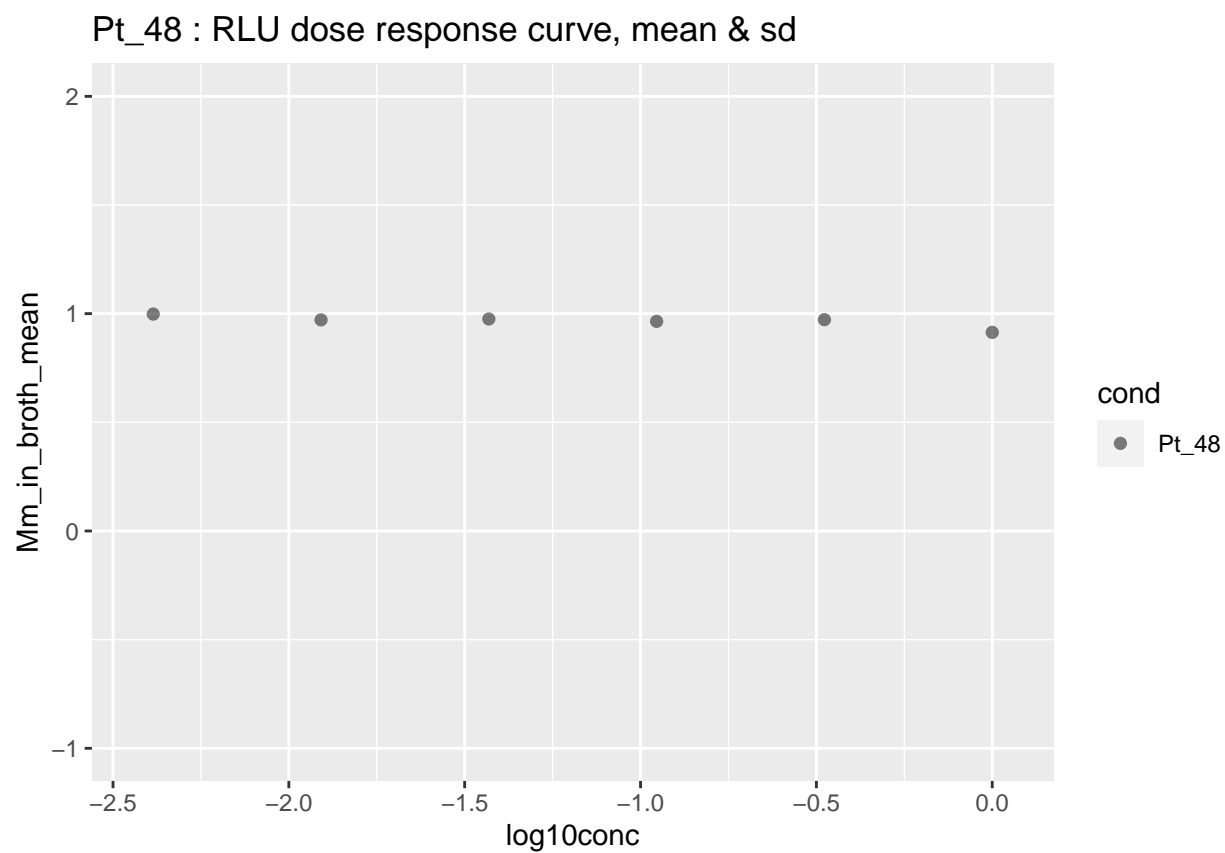
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate05.xlsx, biorep 2 : "  
## [1] 0.84  
## [1] "Dose response curves over all bioreps within this plate"
```



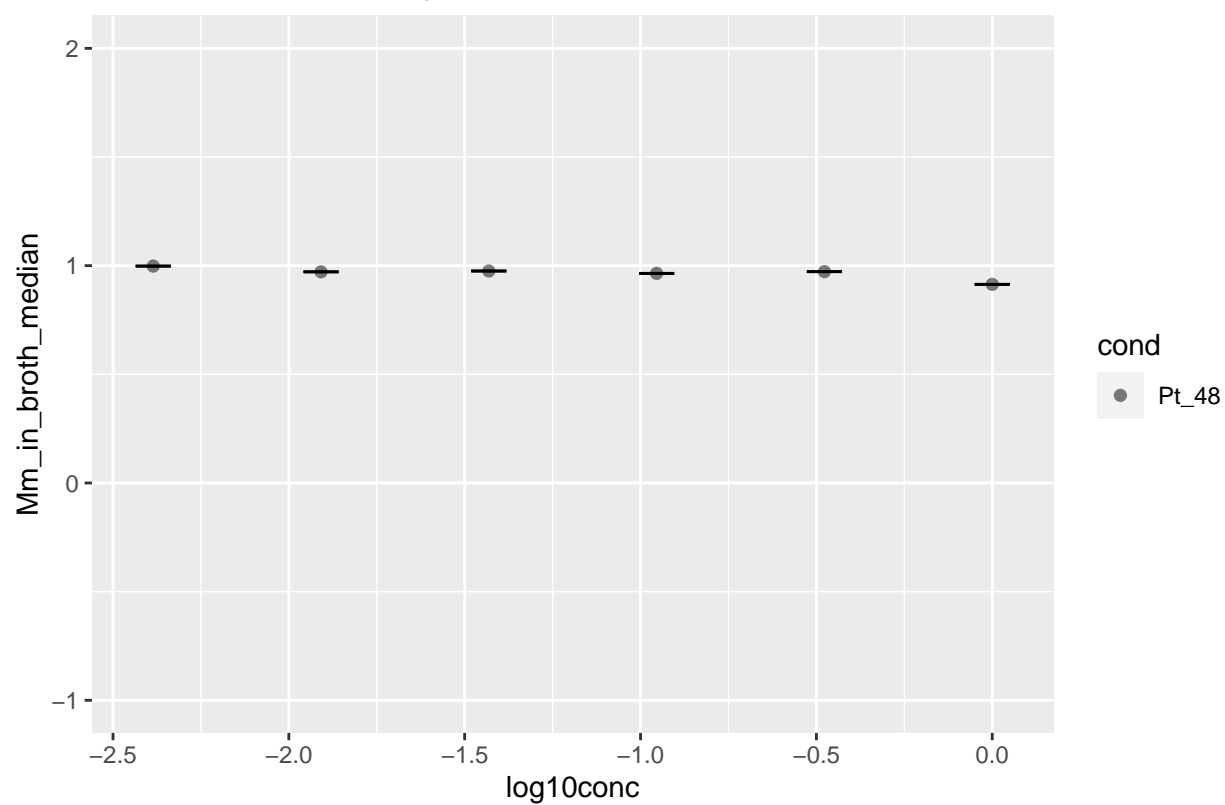


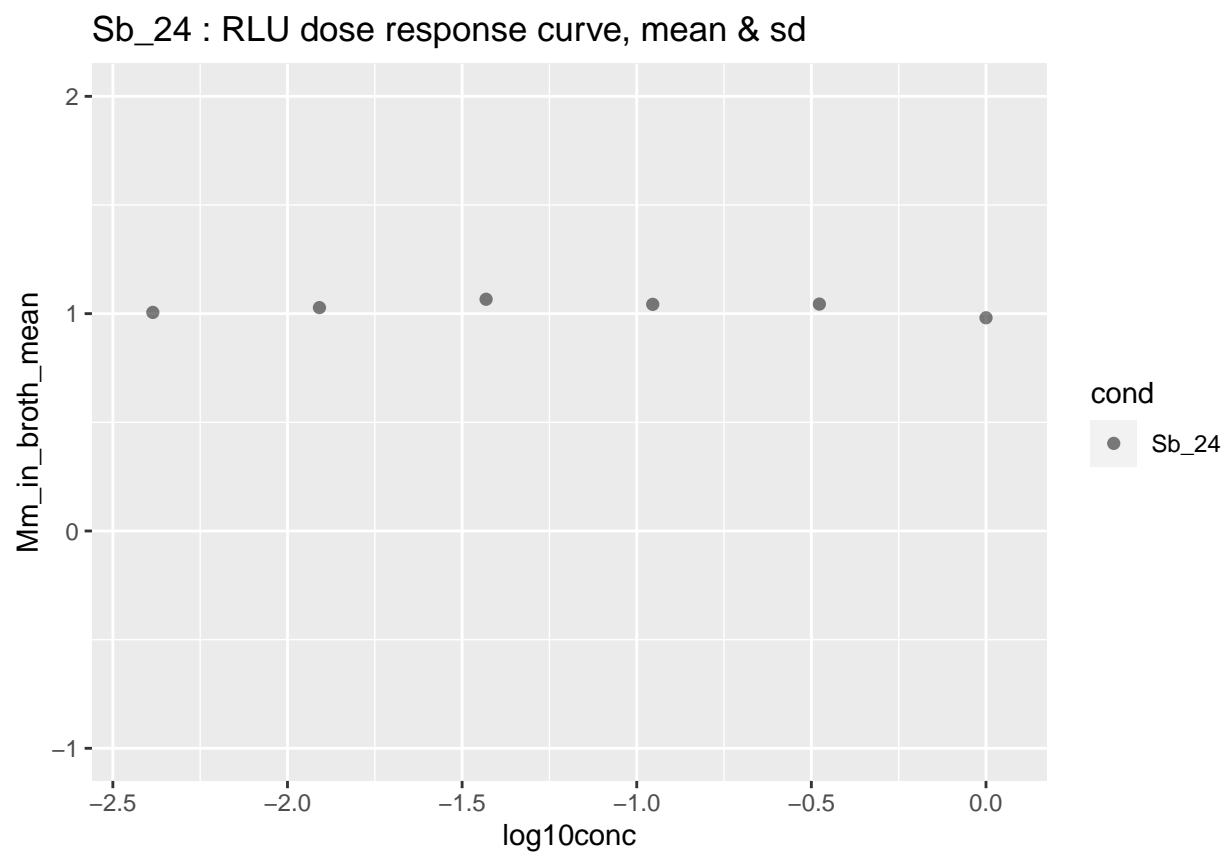




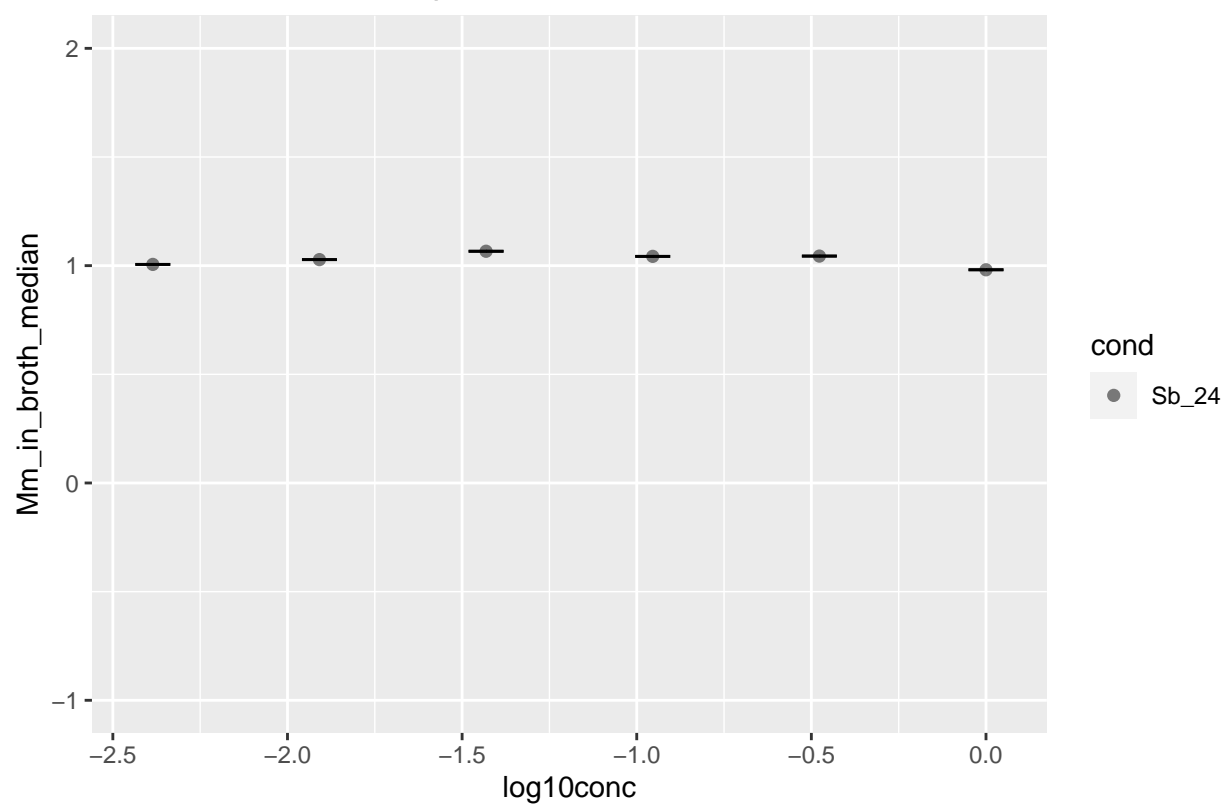


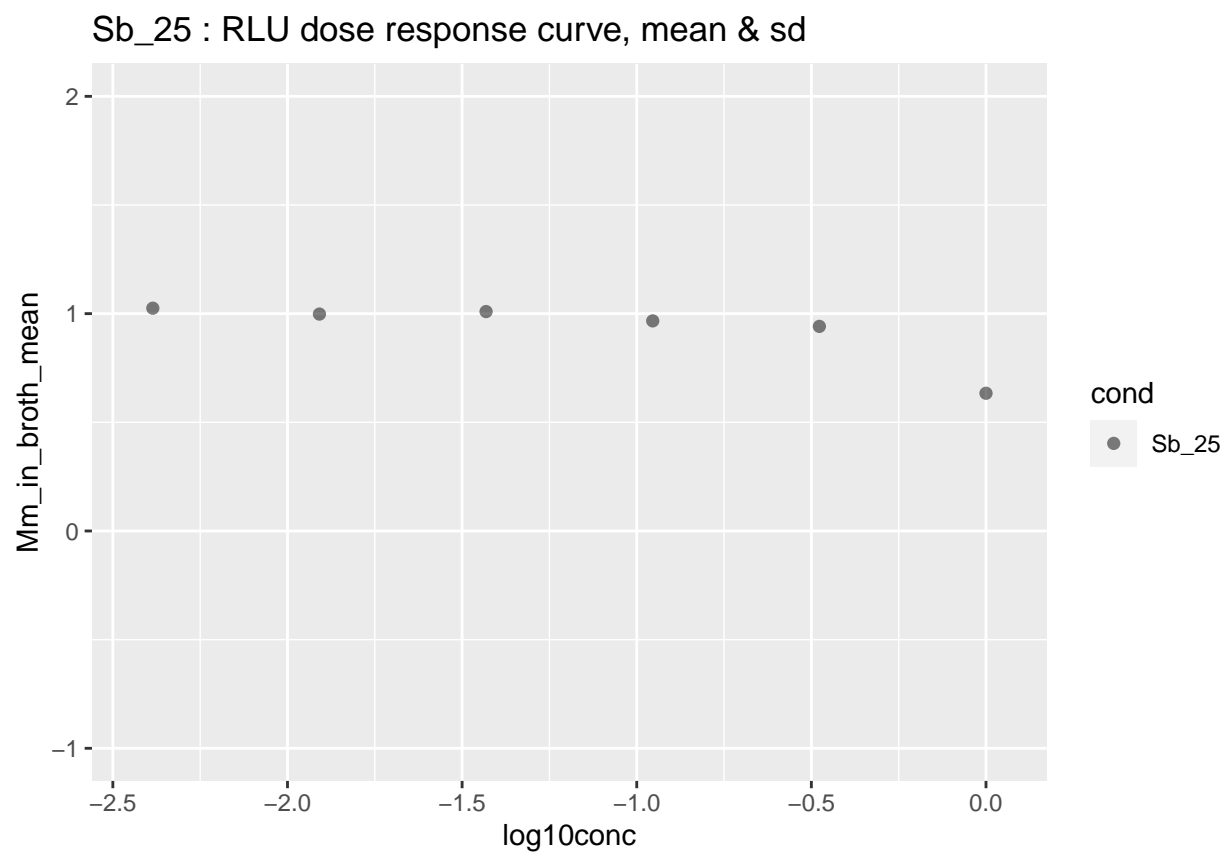
Pt_48 : RLU dose response curve, median & mad



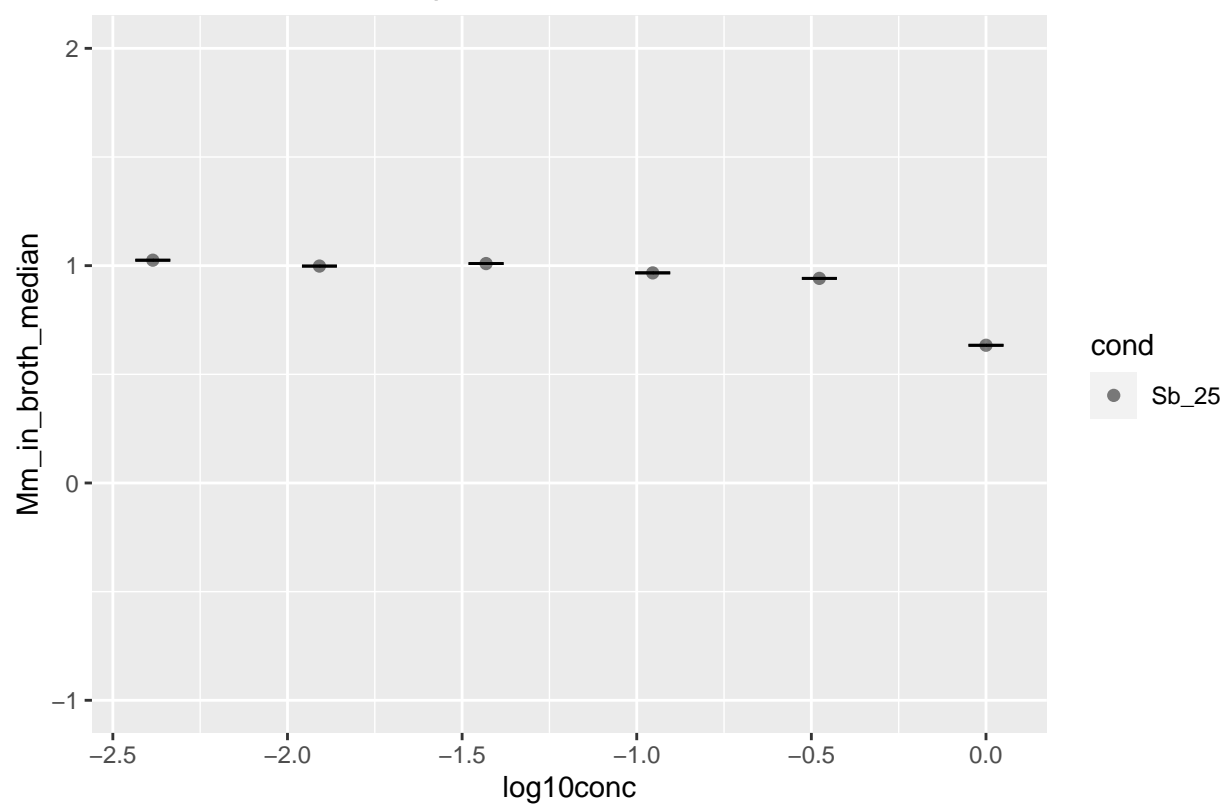


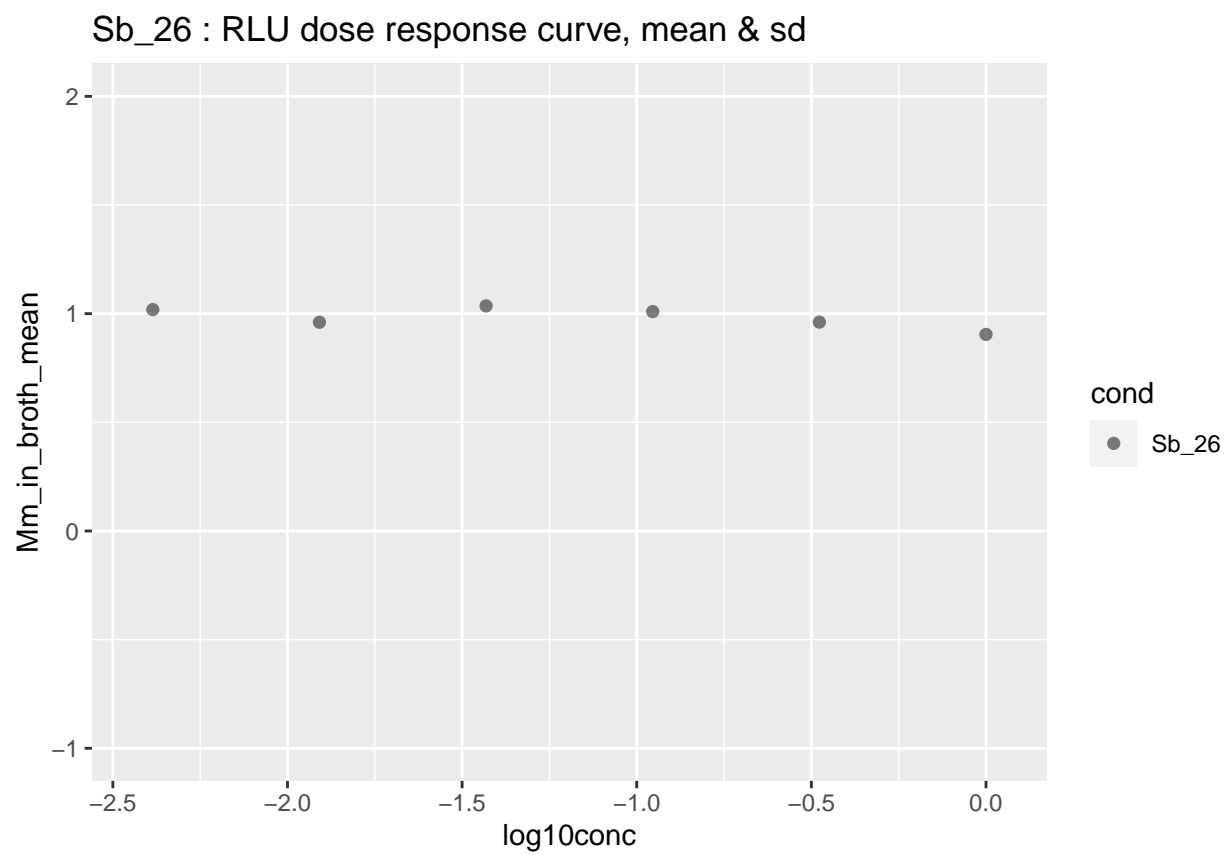
Sb_24 : RLU dose response curve, median & mad



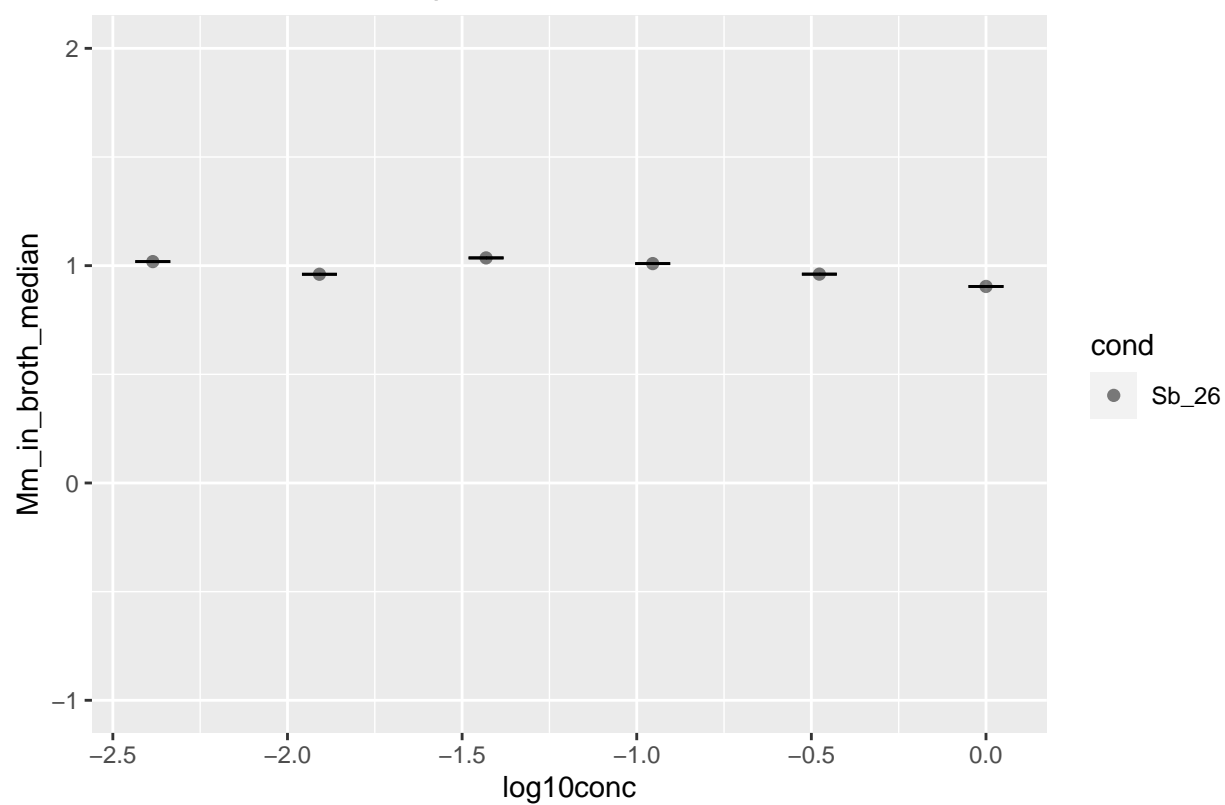


Sb_25 : RLU dose response curve, median & mad

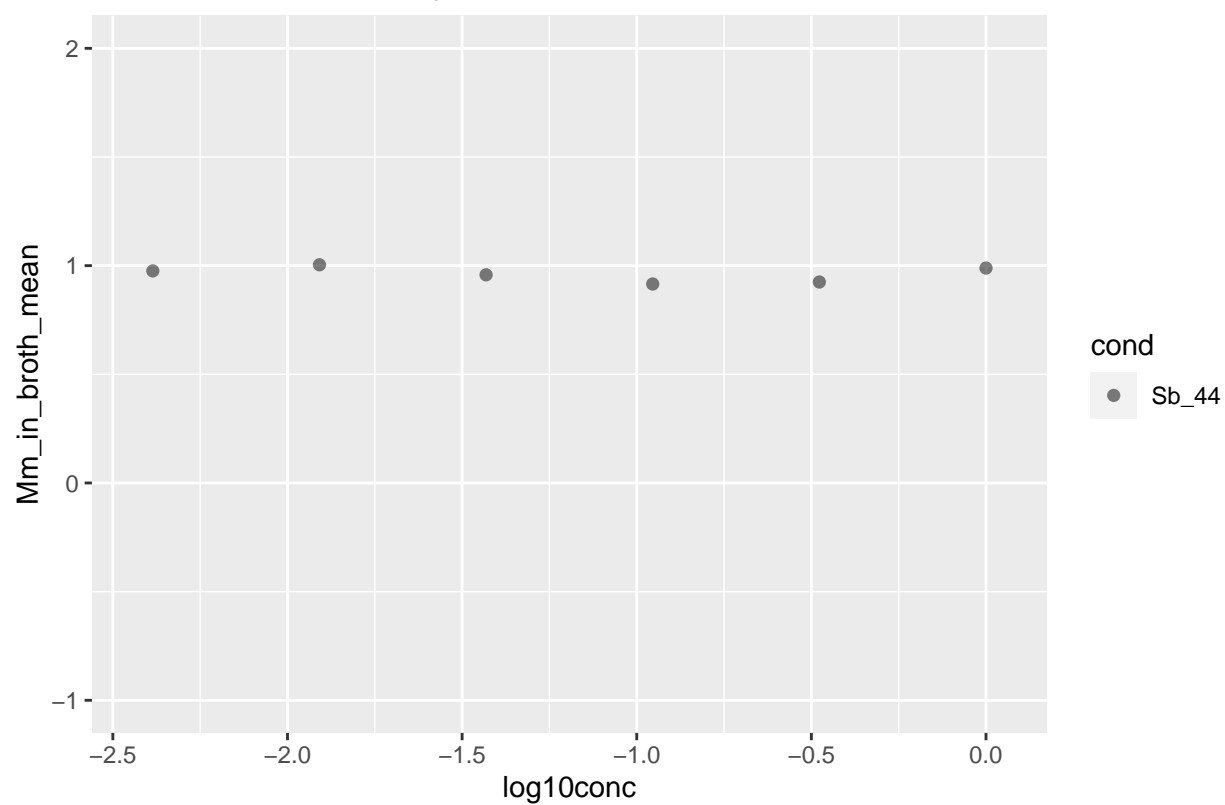




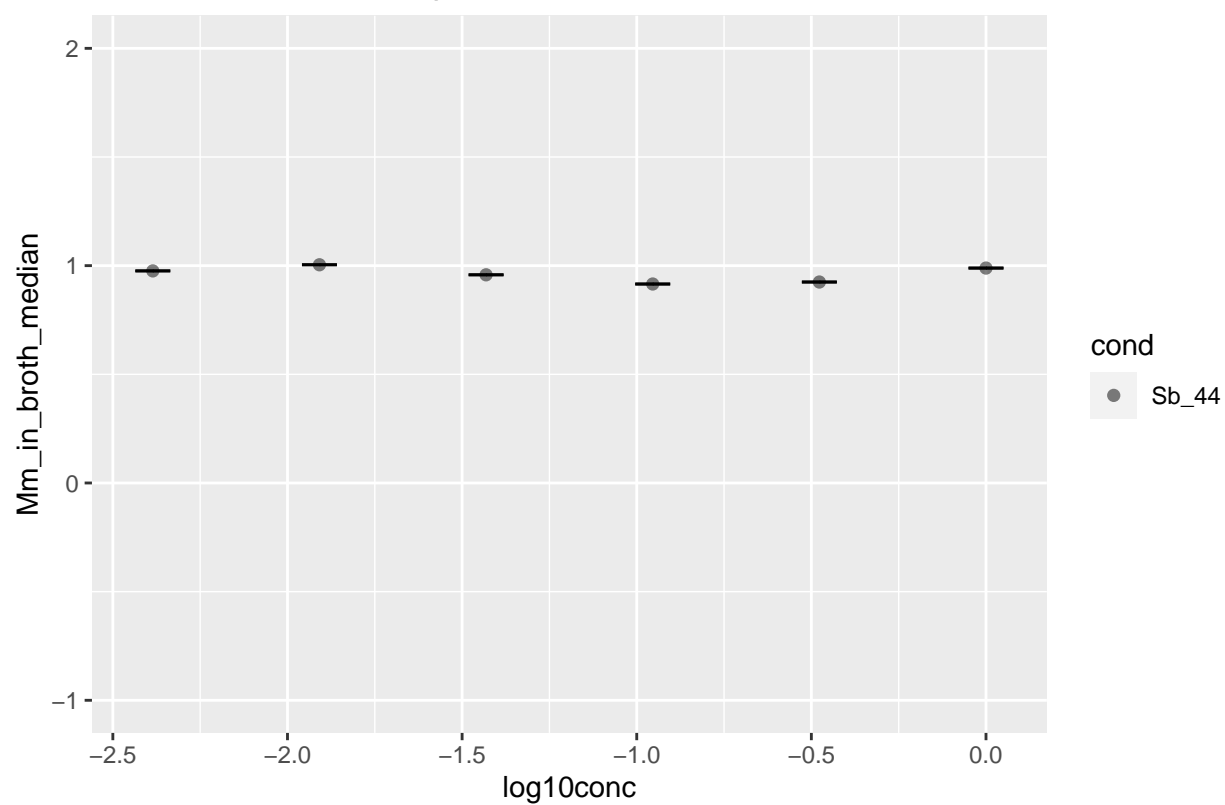
Sb_26 : RLU dose response curve, median & mad



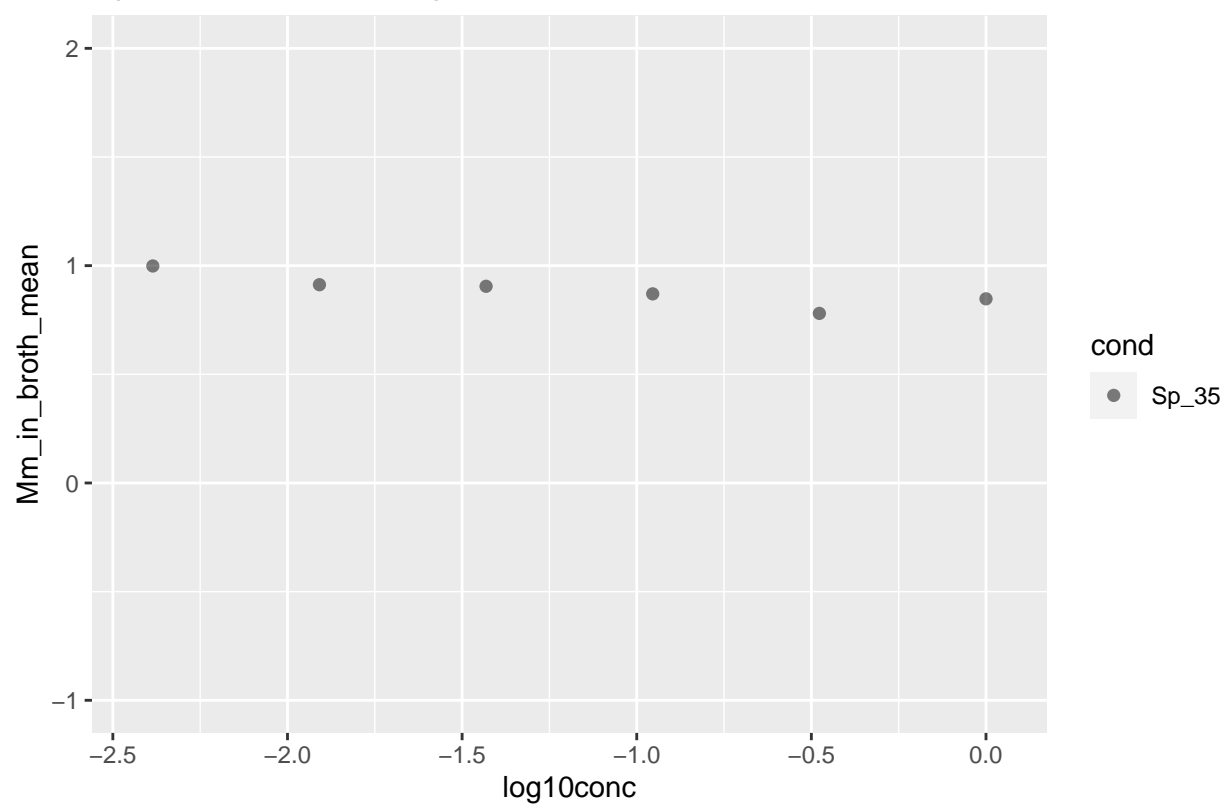
Sb_44 : RLU dose response curve, mean & sd

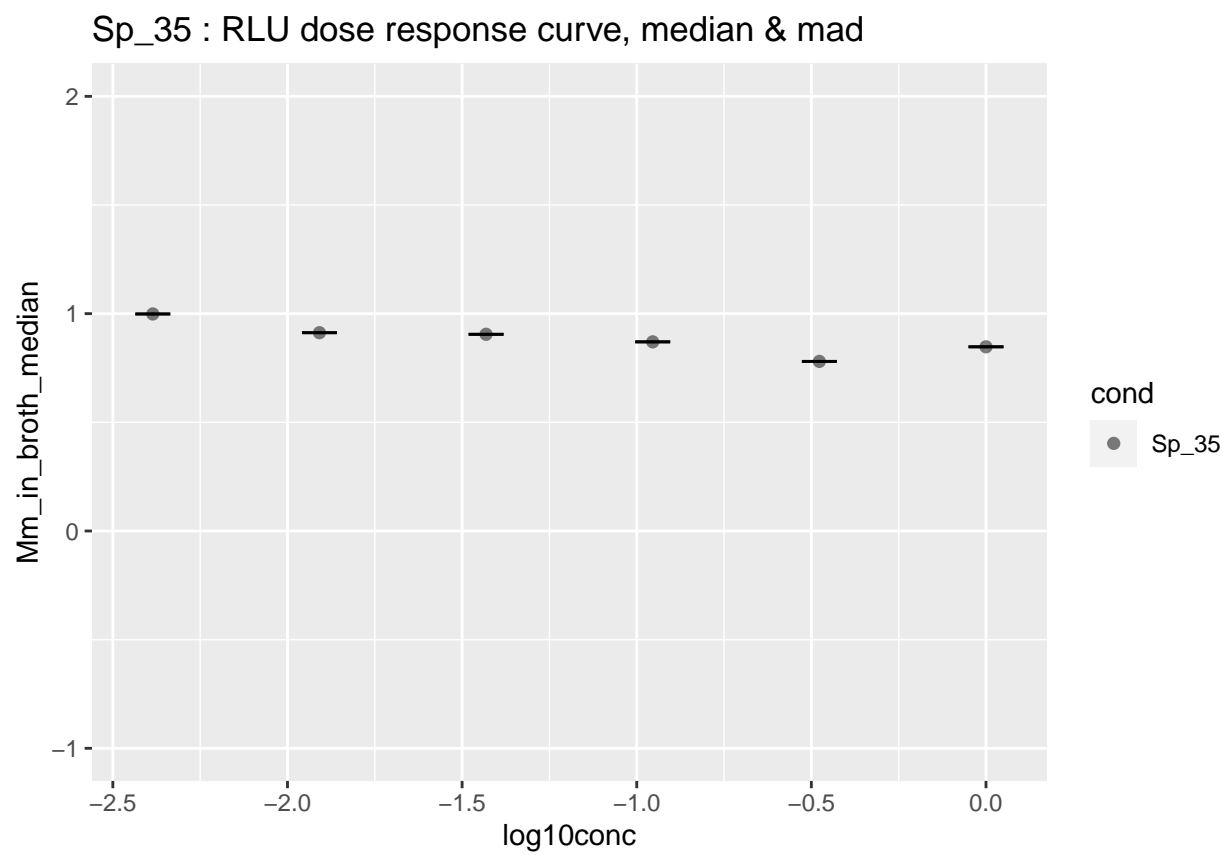


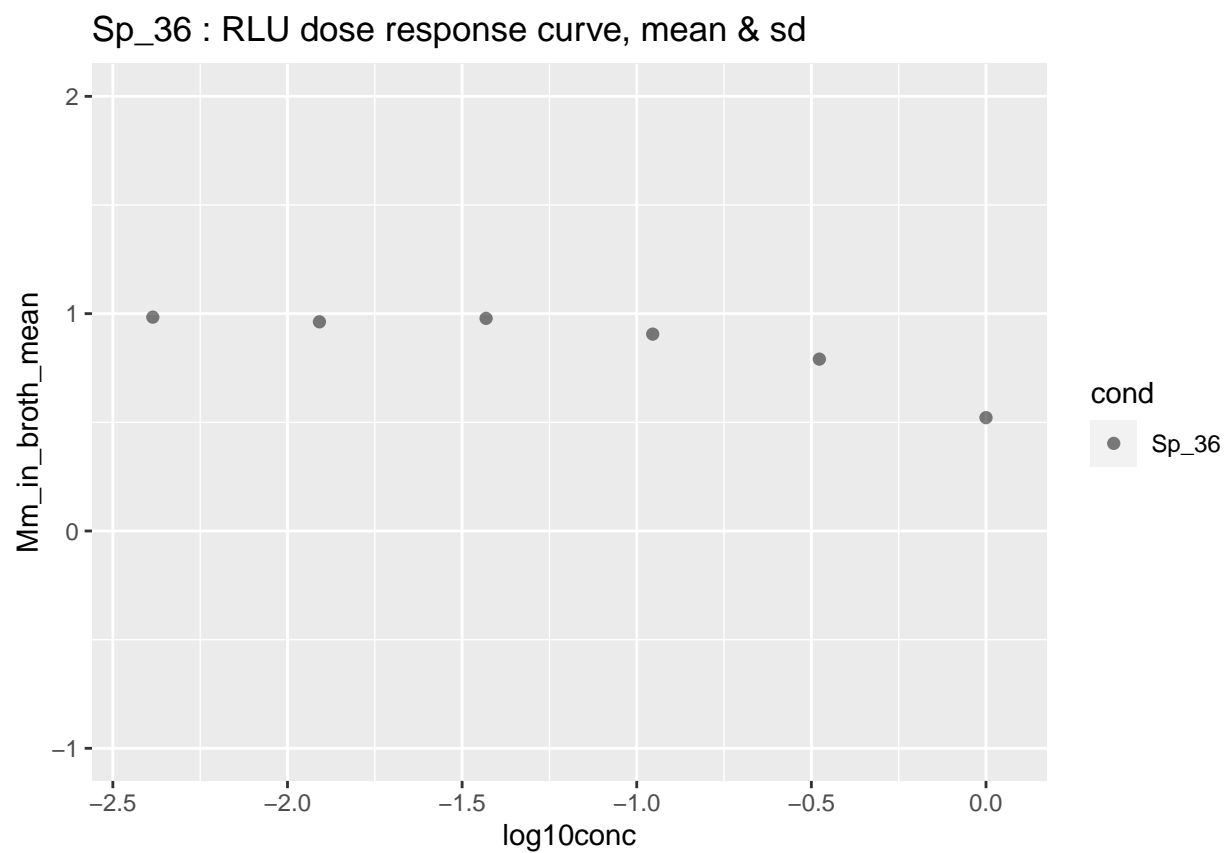
Sb_44 : RLU dose response curve, median & mad



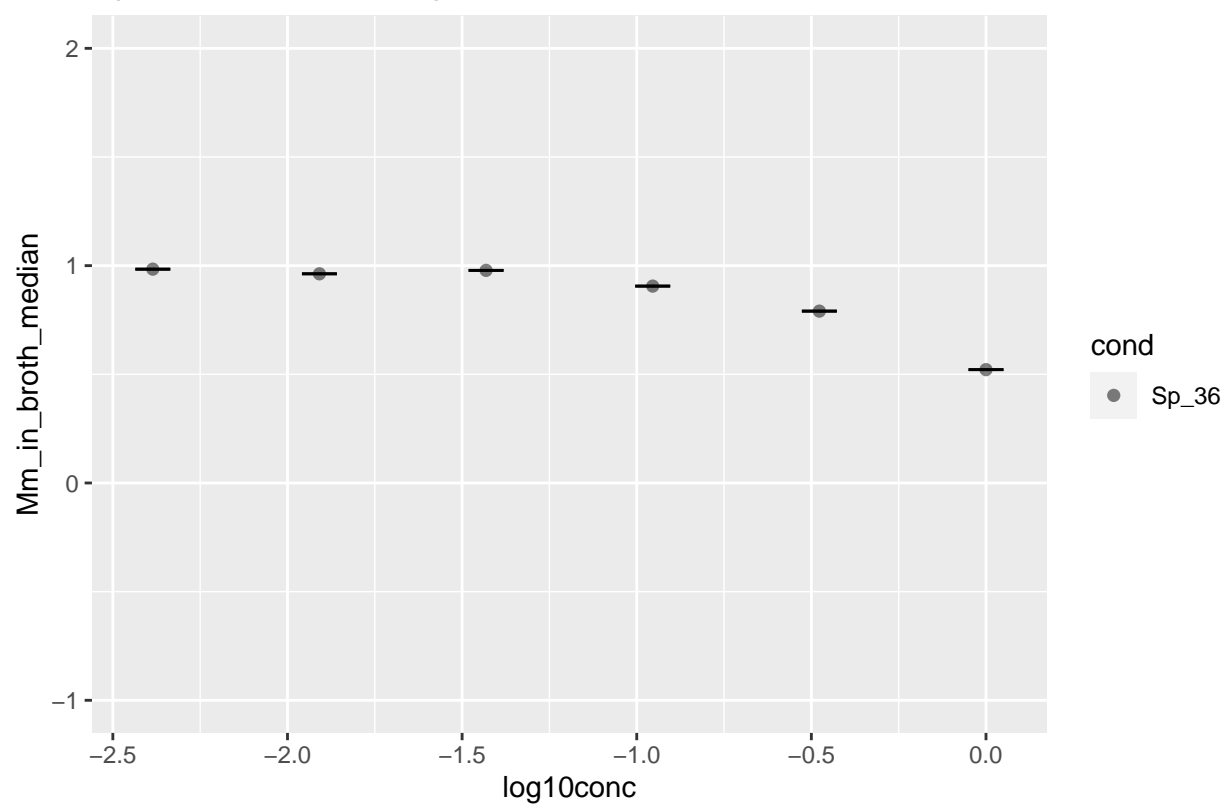
Sp_35 : RLU dose response curve, mean & sd

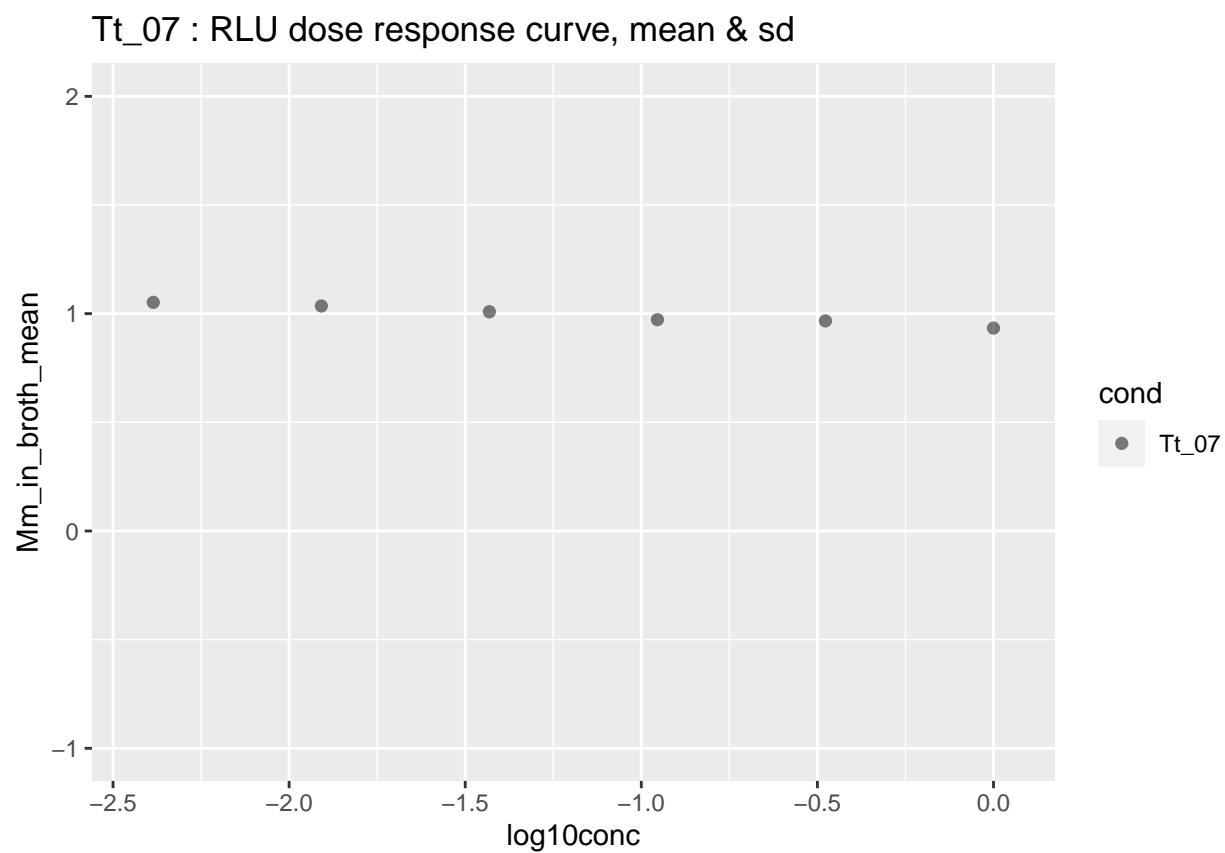


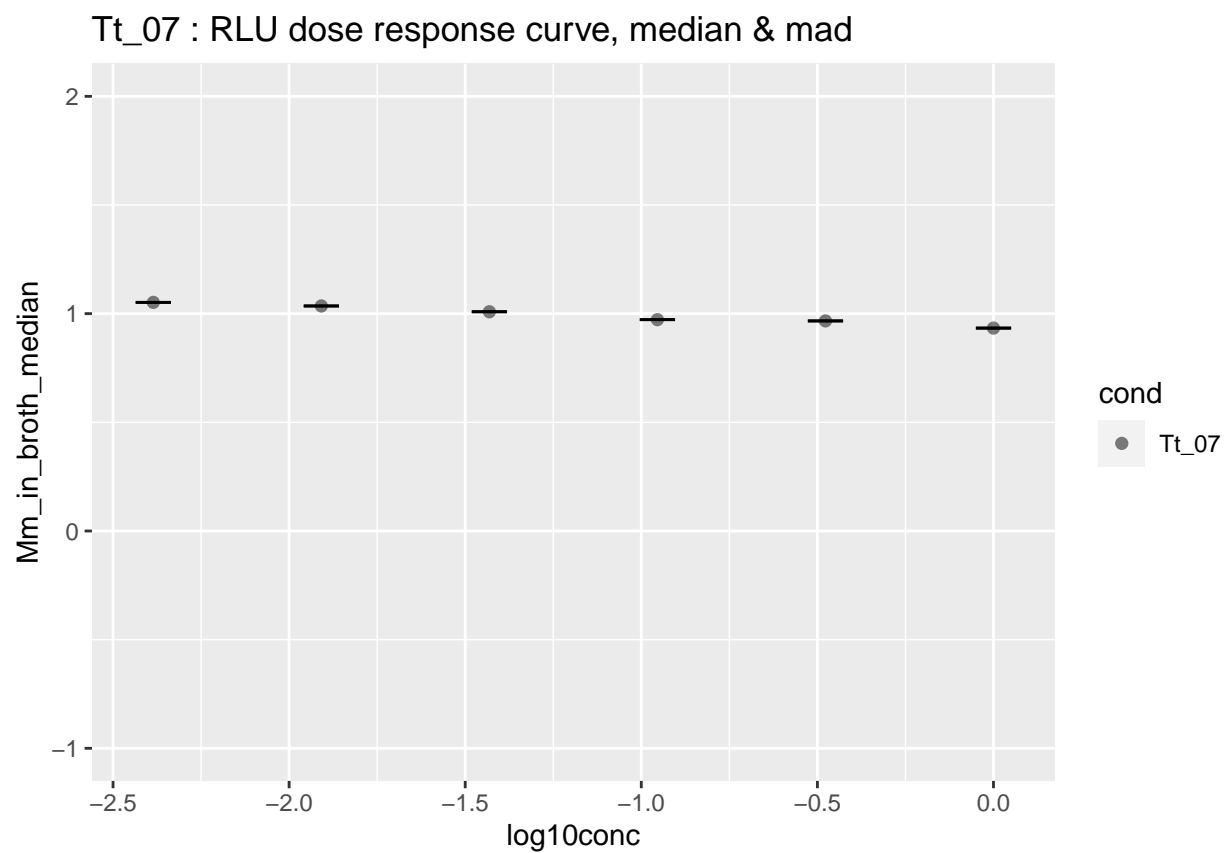




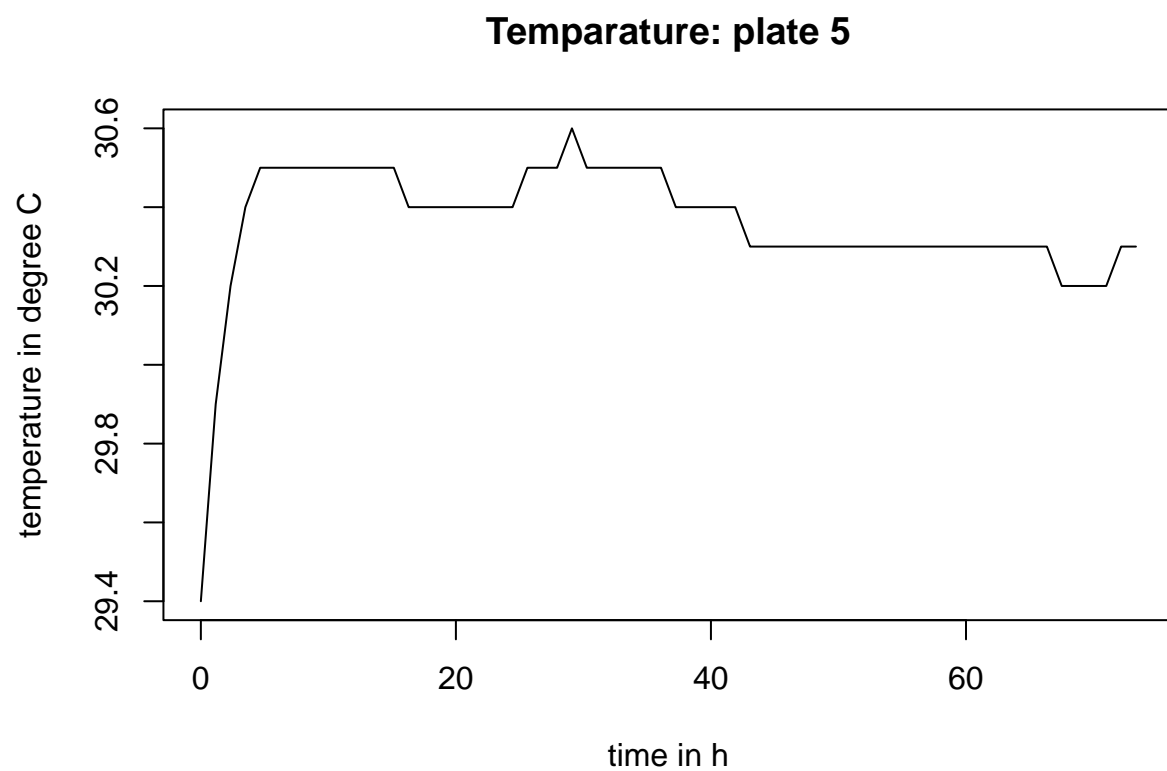
Sp_36 : RLU dose response curve, median & mad





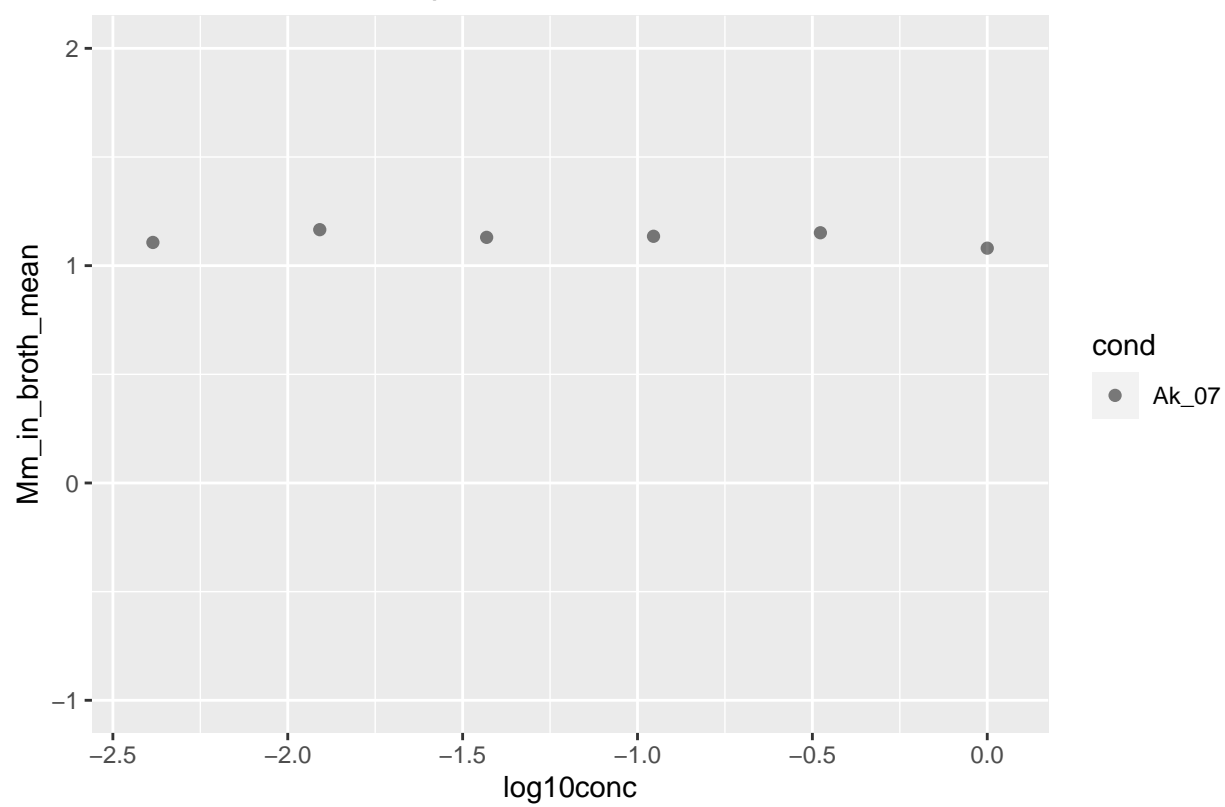


```
## [1] "analysis for plate06.xlsx"
```

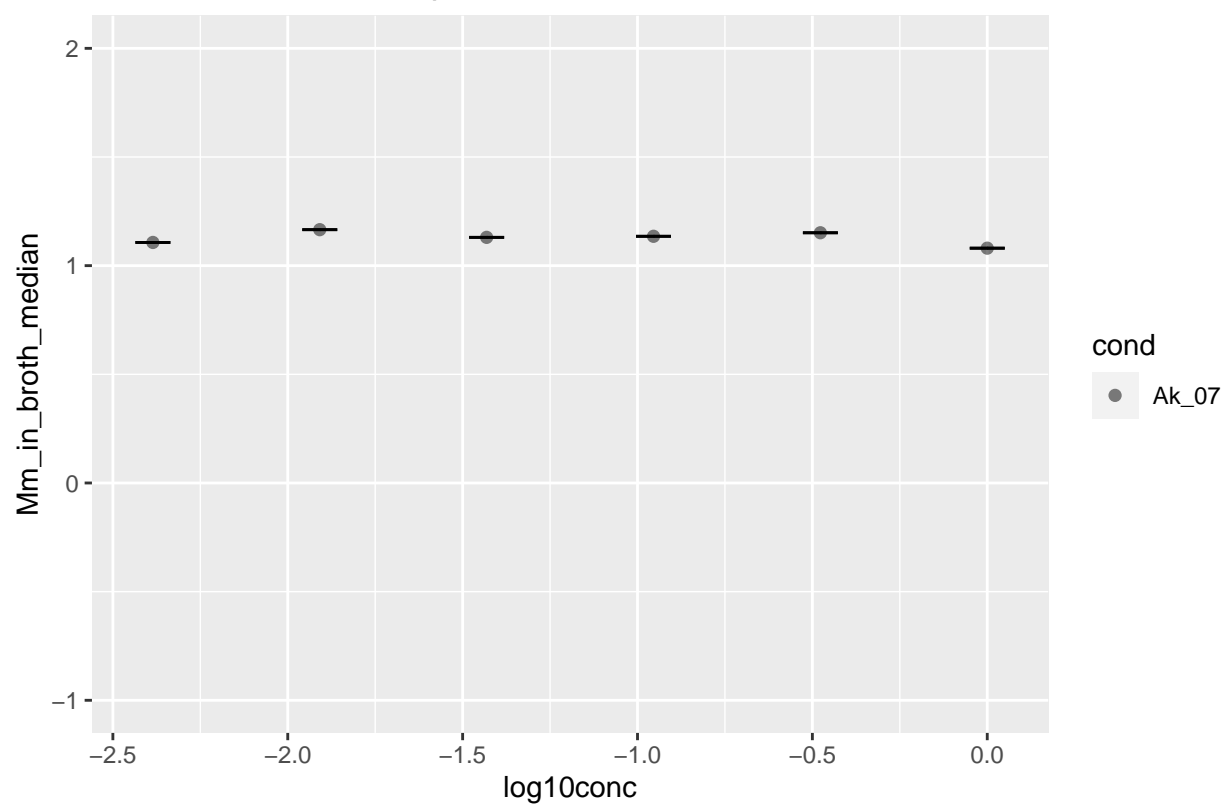



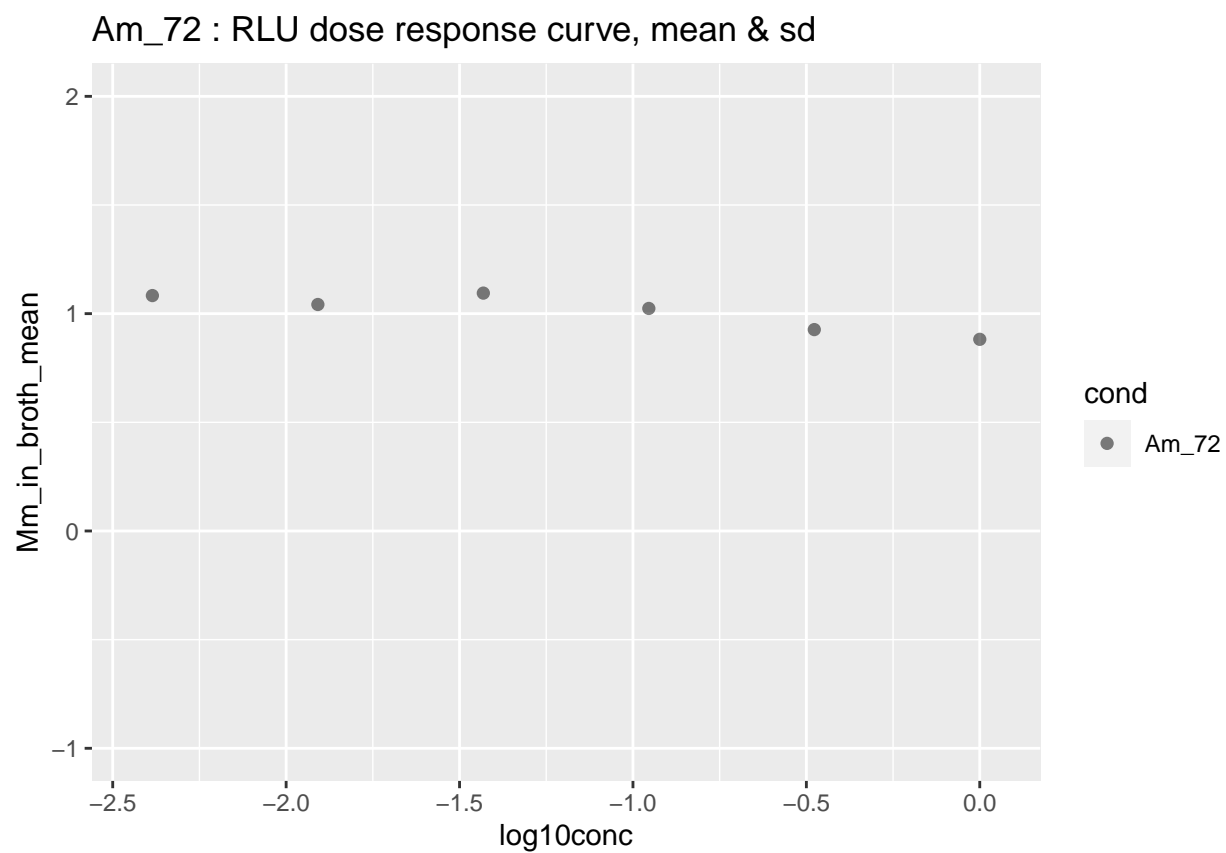
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate06.xlsx, biorep 3 : "  
## [1] 0.85  
## [1] "Dose response curves over all bioreps within this plate"
```

Ak_07 : RLU dose response curve, mean & sd

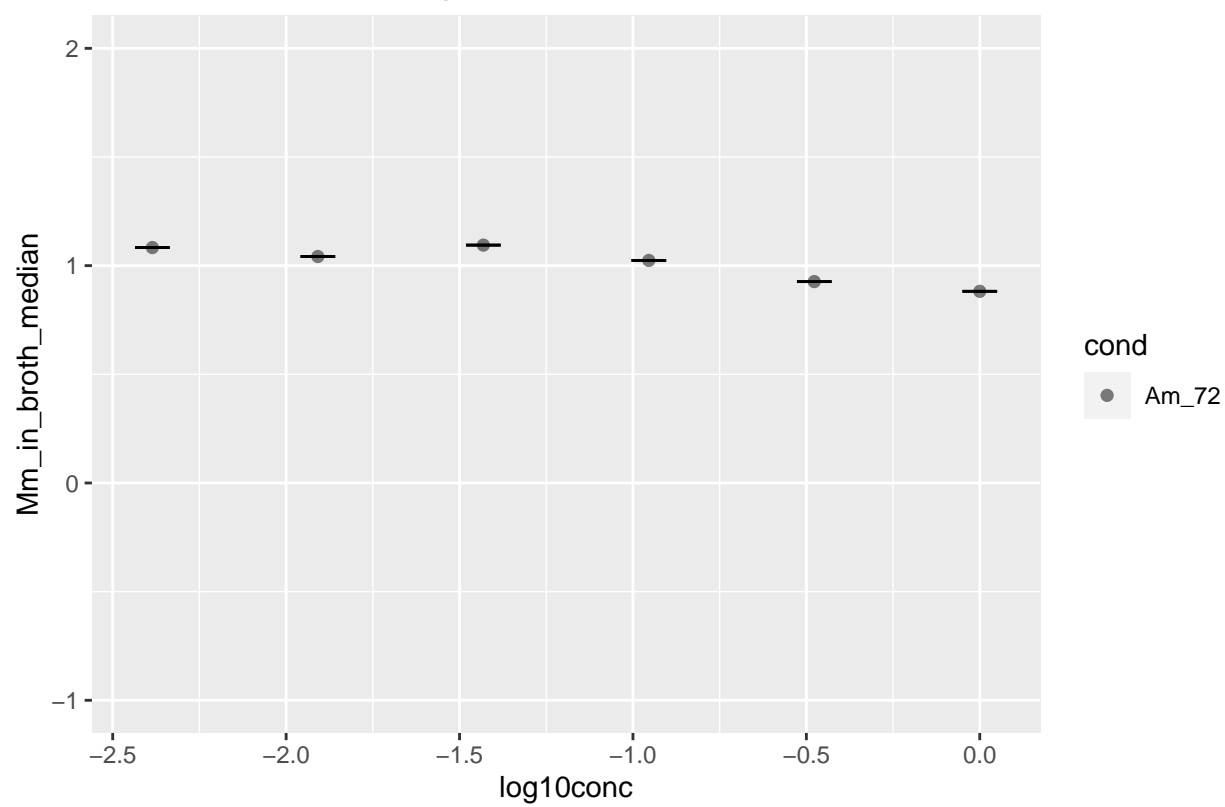


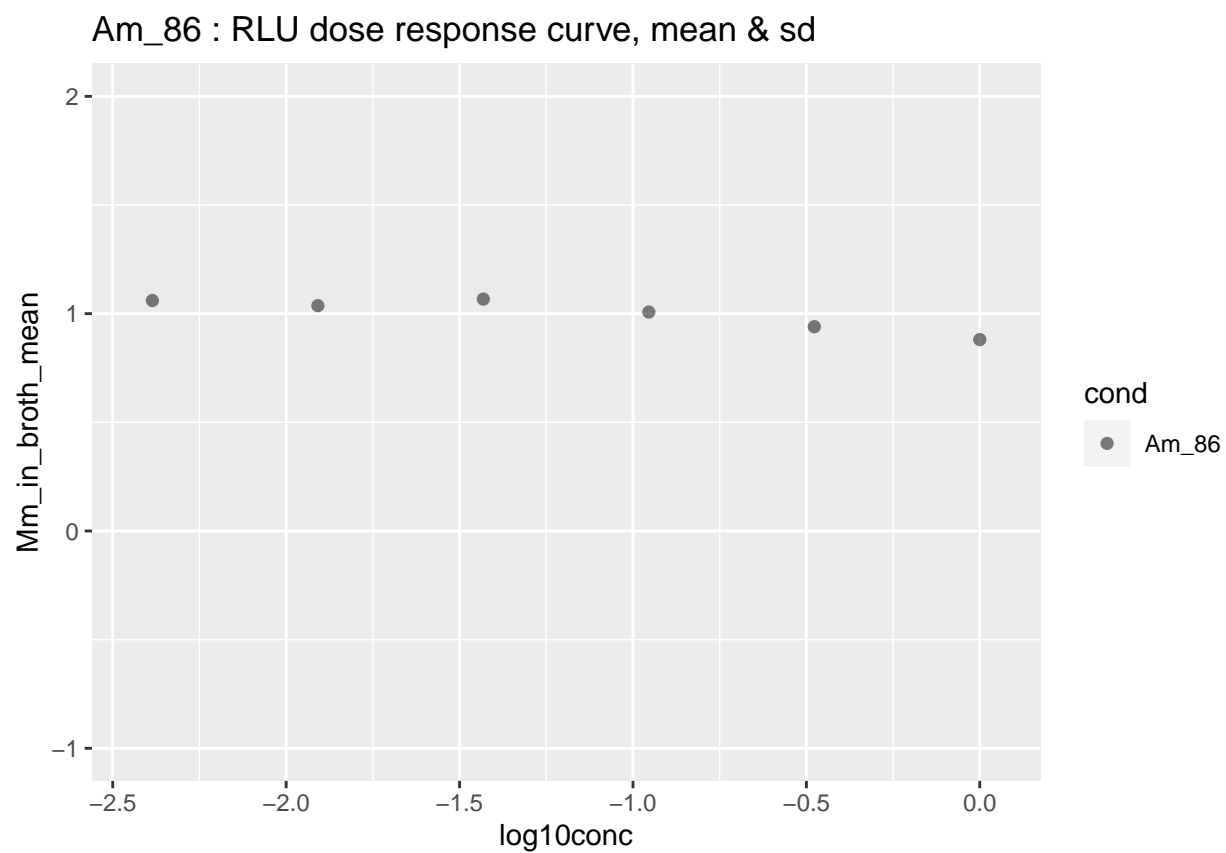
Ak_07 : RLU dose response curve, median & mad



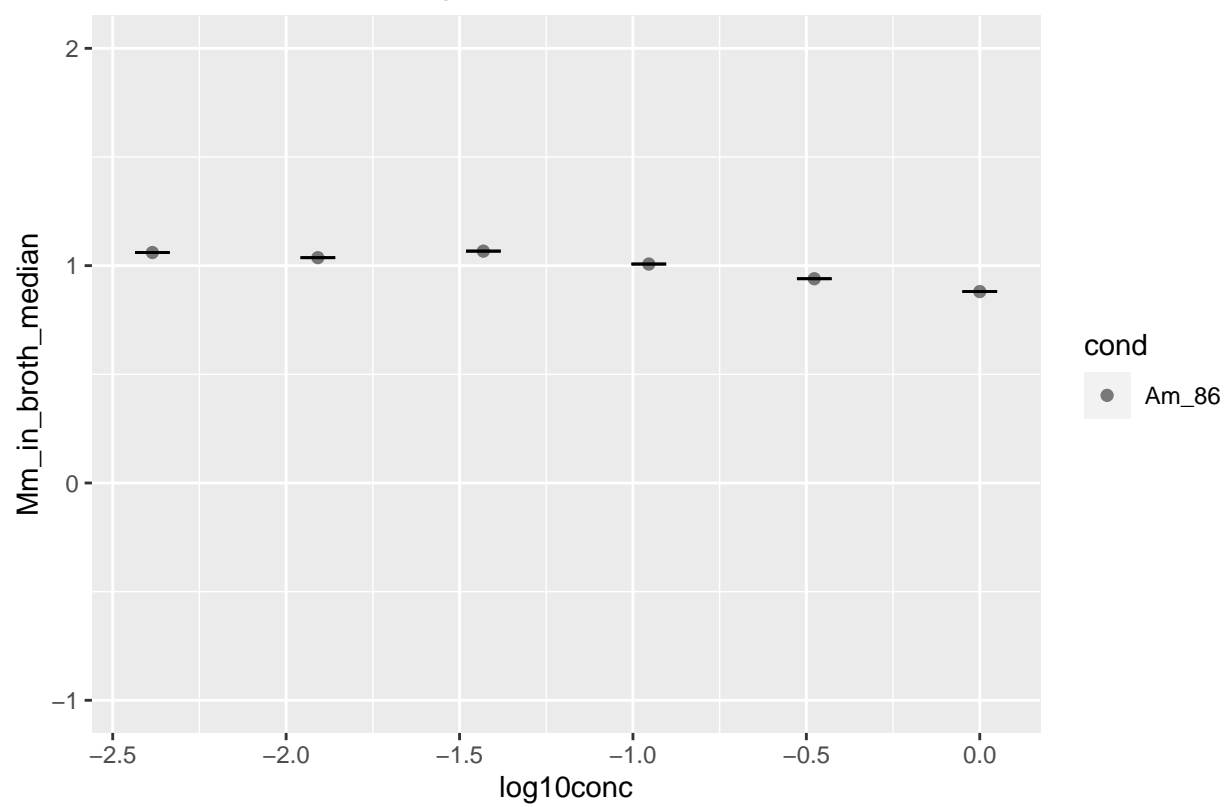


Am_72 : RLU dose response curve, median & mad

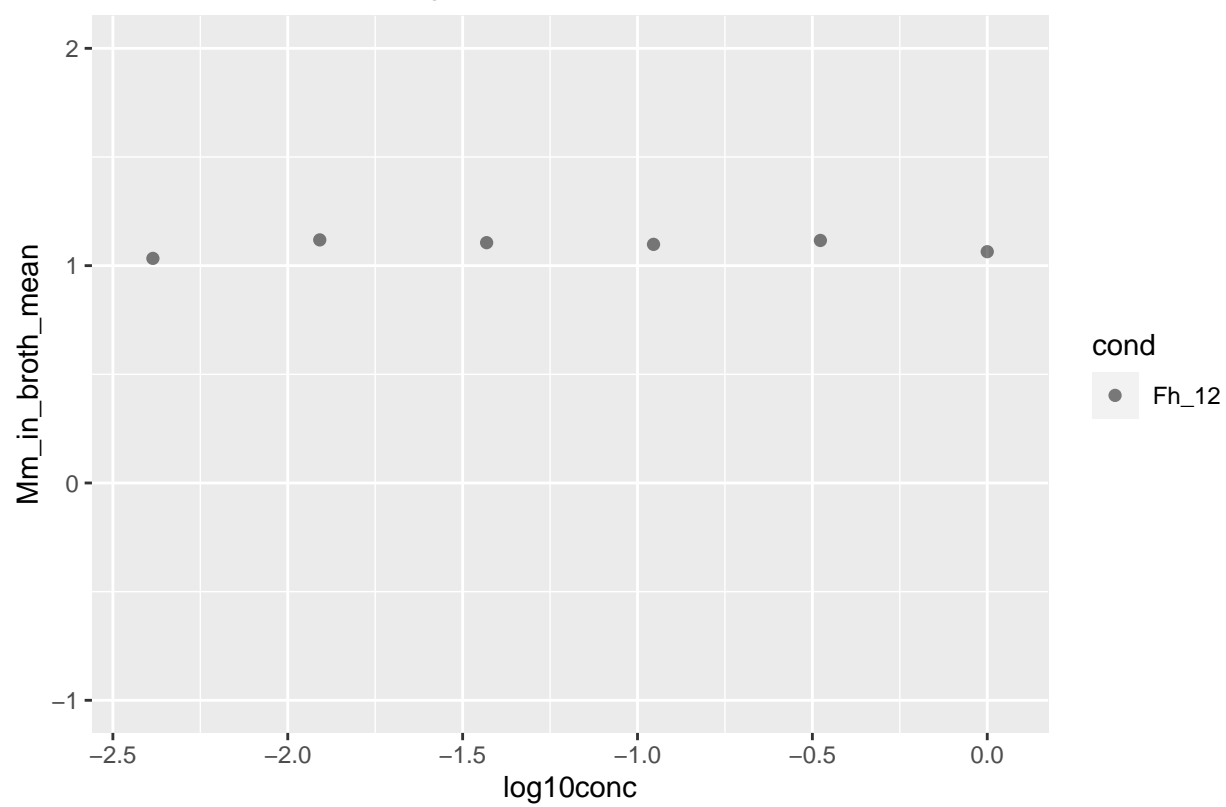




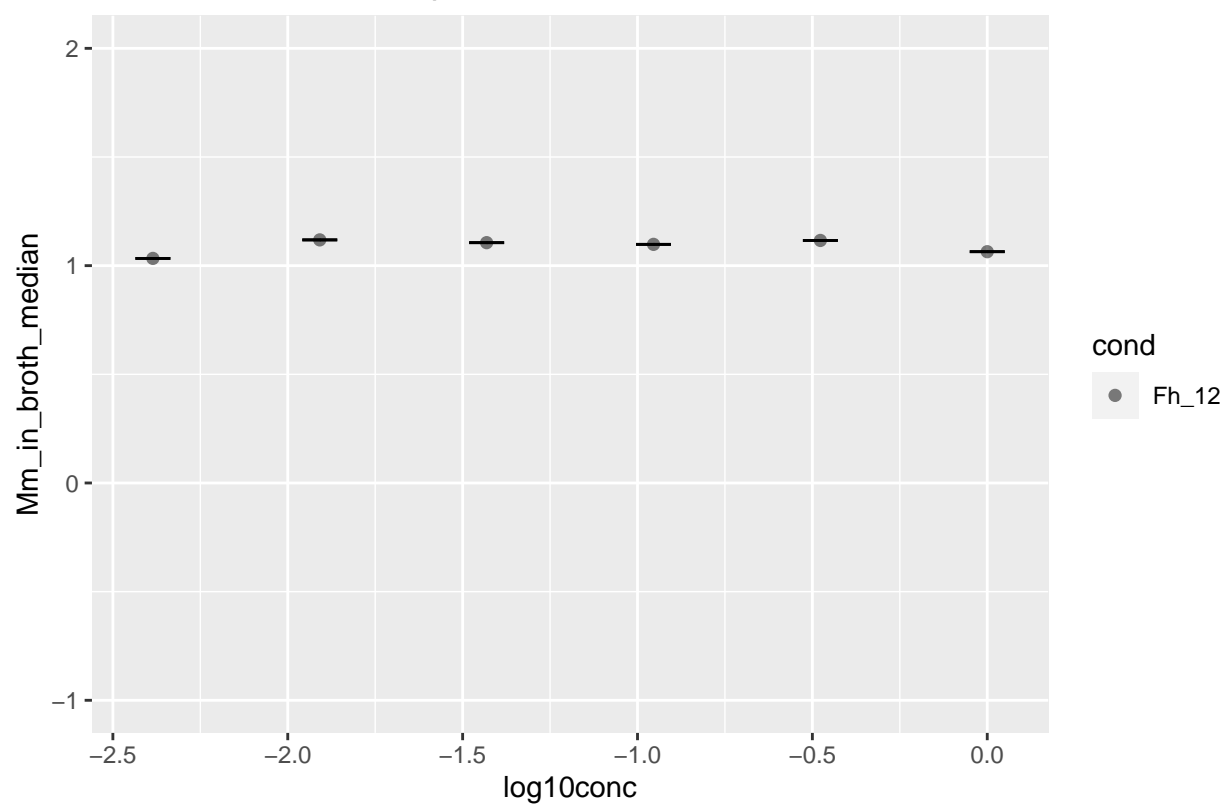
Am_86 : RLU dose response curve, median & mad

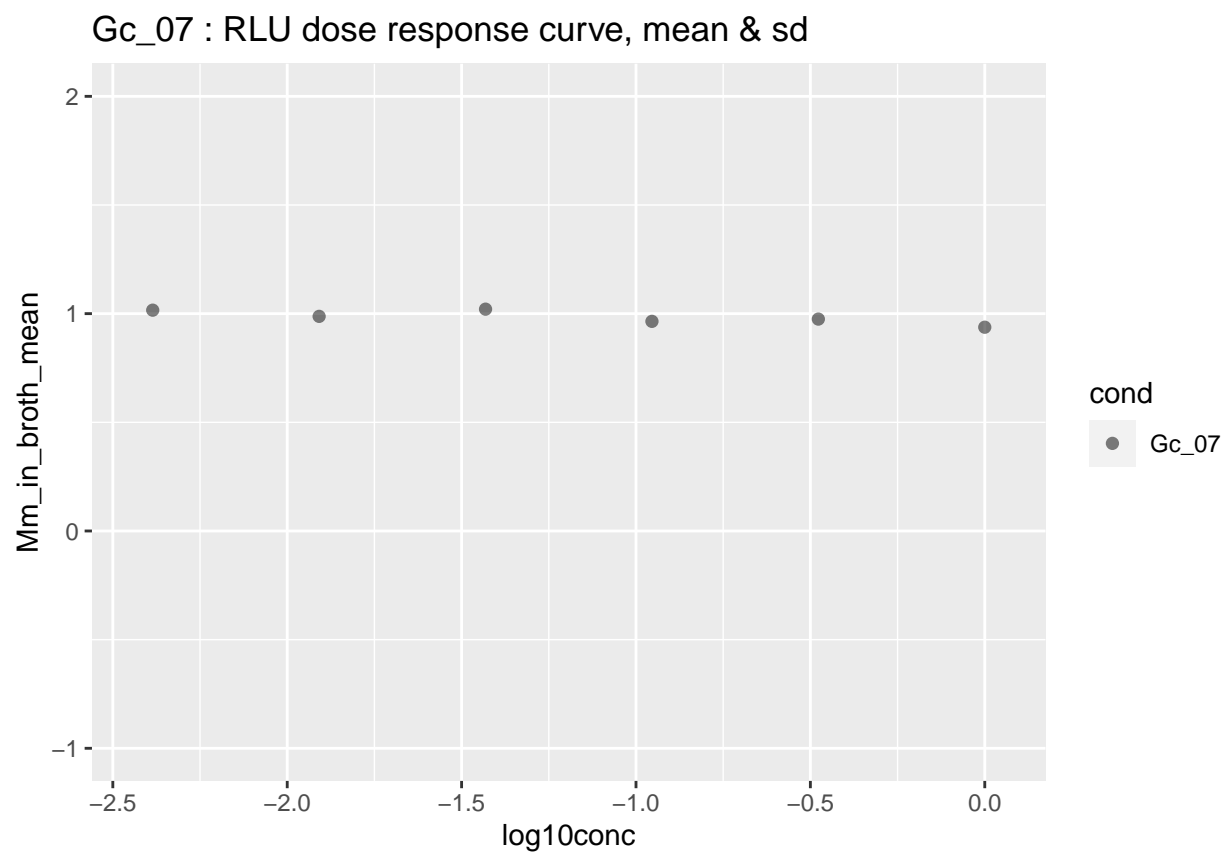


Fh_12 : RLU dose response curve, mean & sd

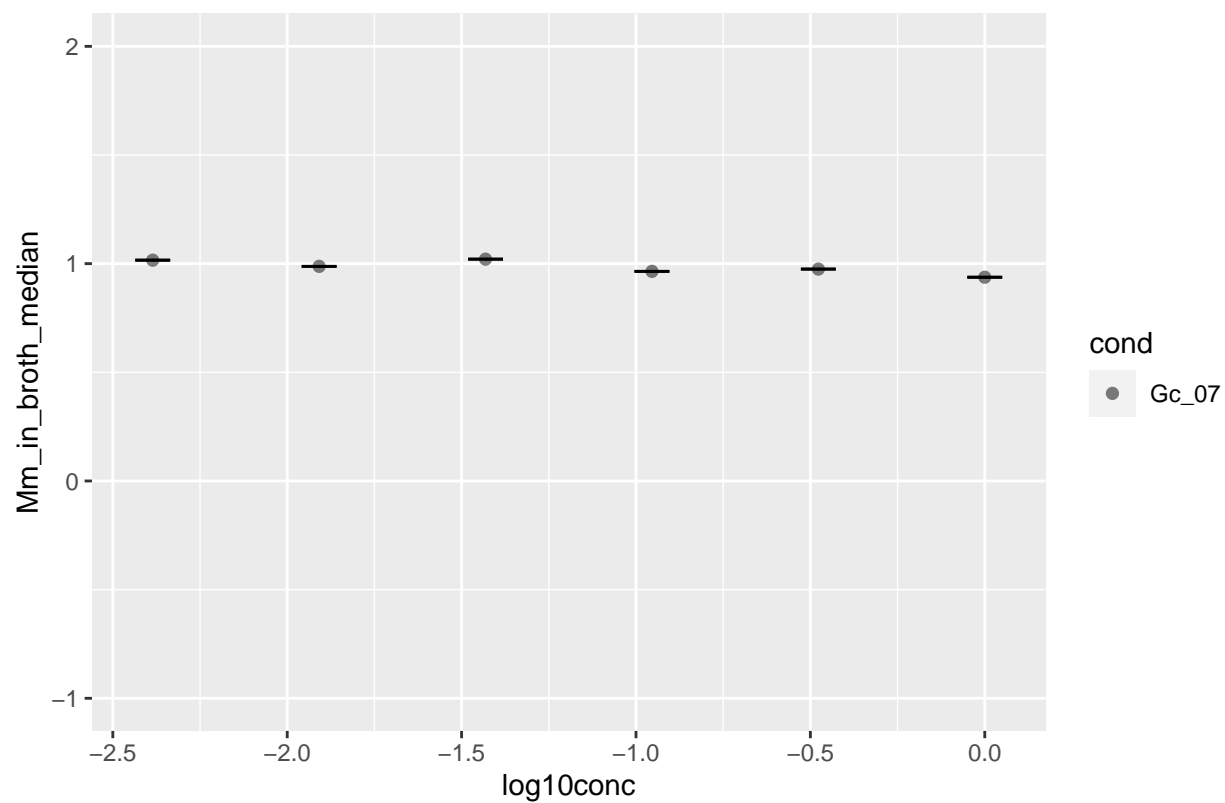


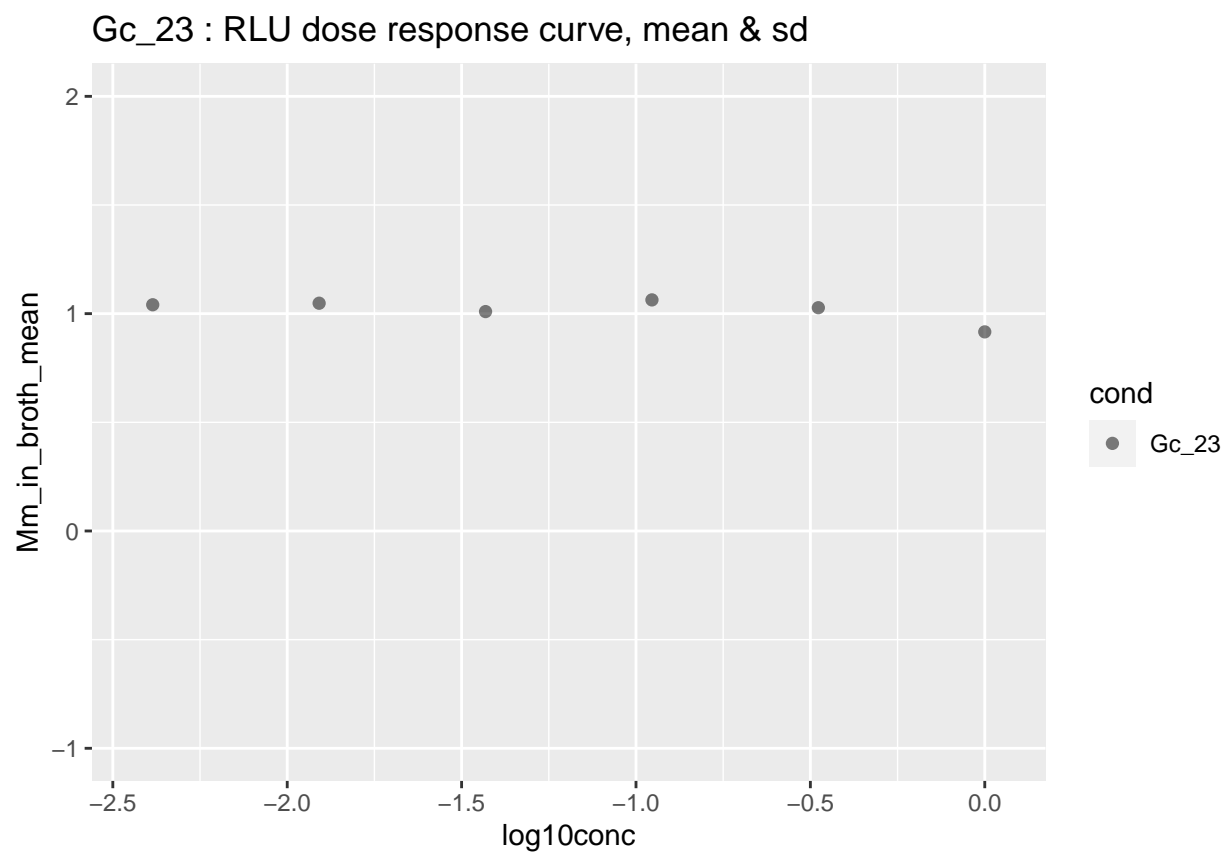
Fh_12 : RLU dose response curve, median & mad



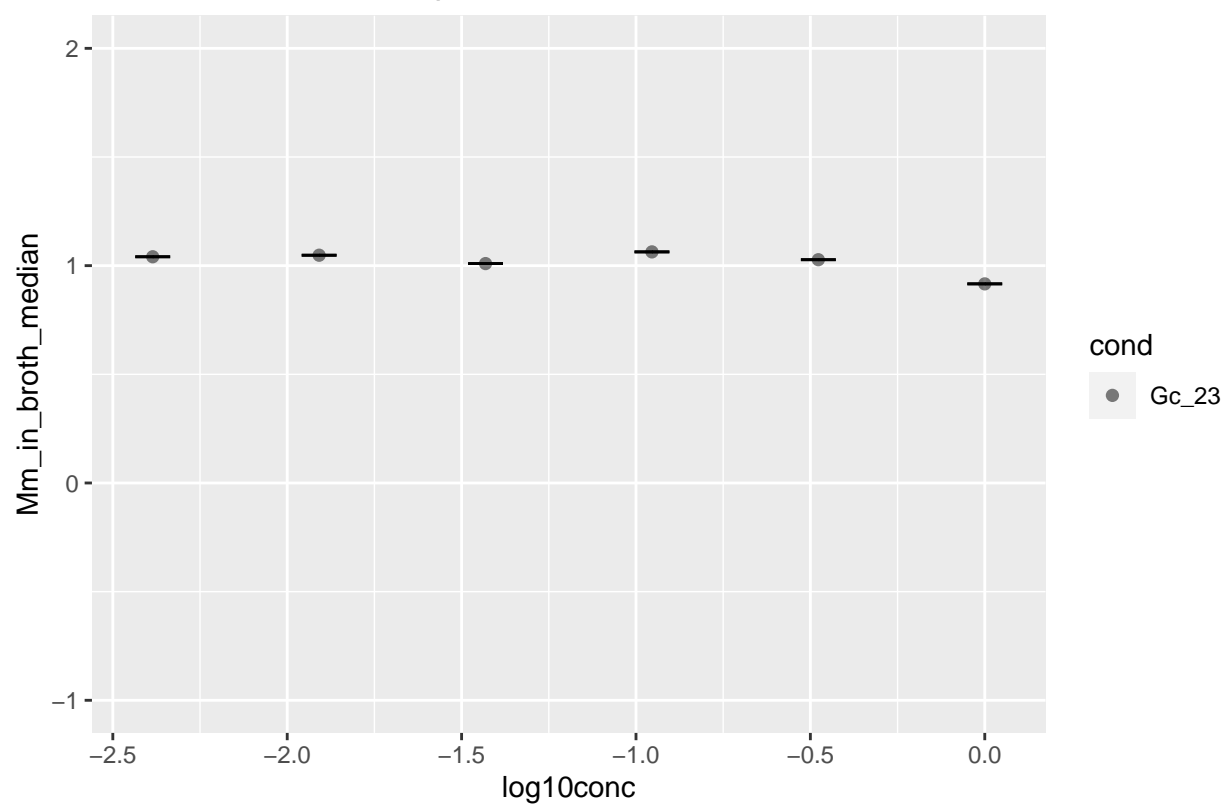


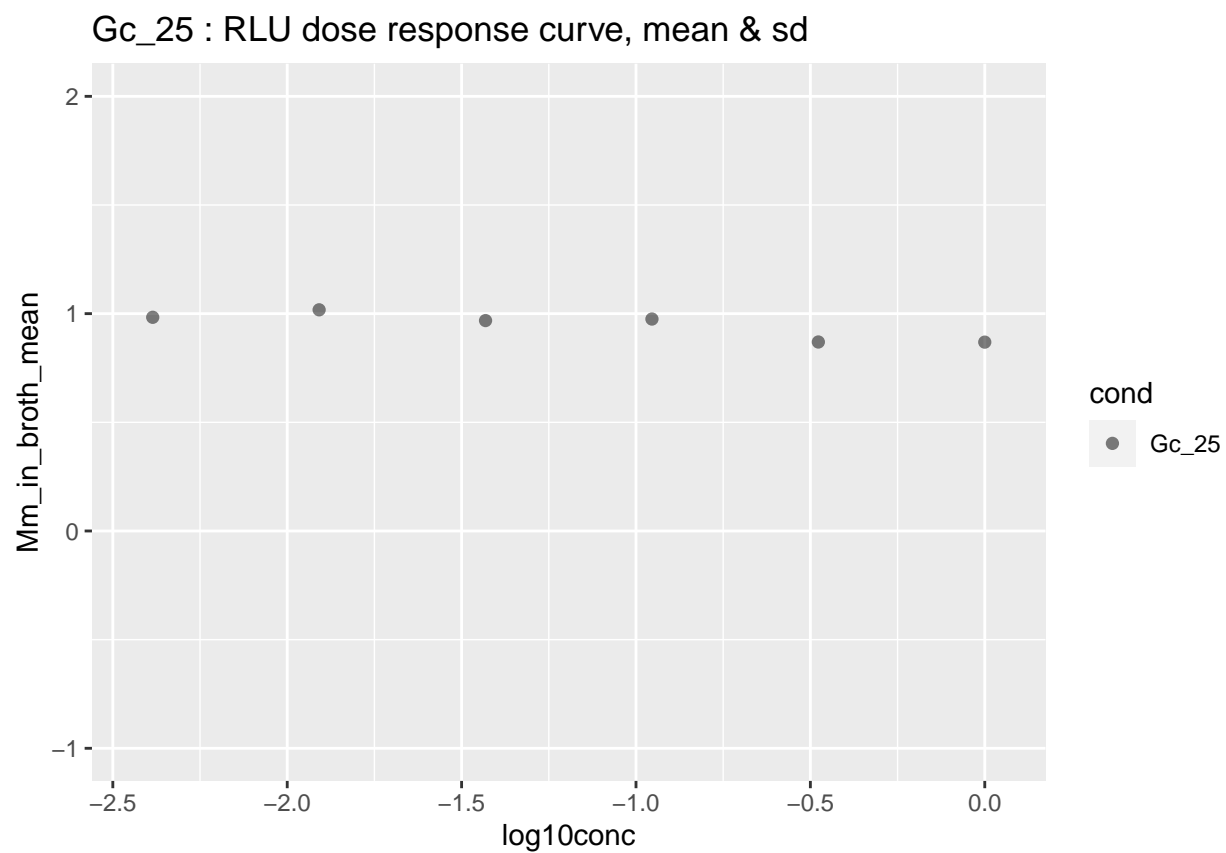
Gc_07 : RLU dose response curve, median & mad



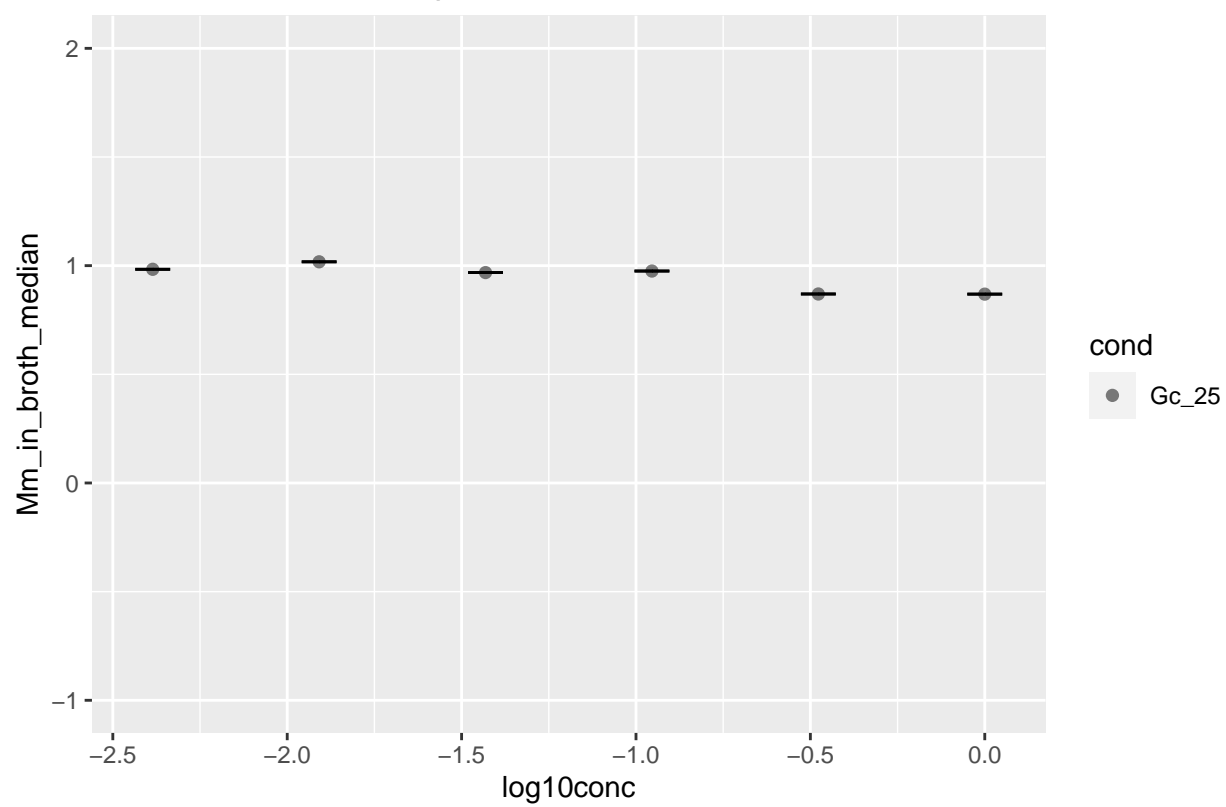


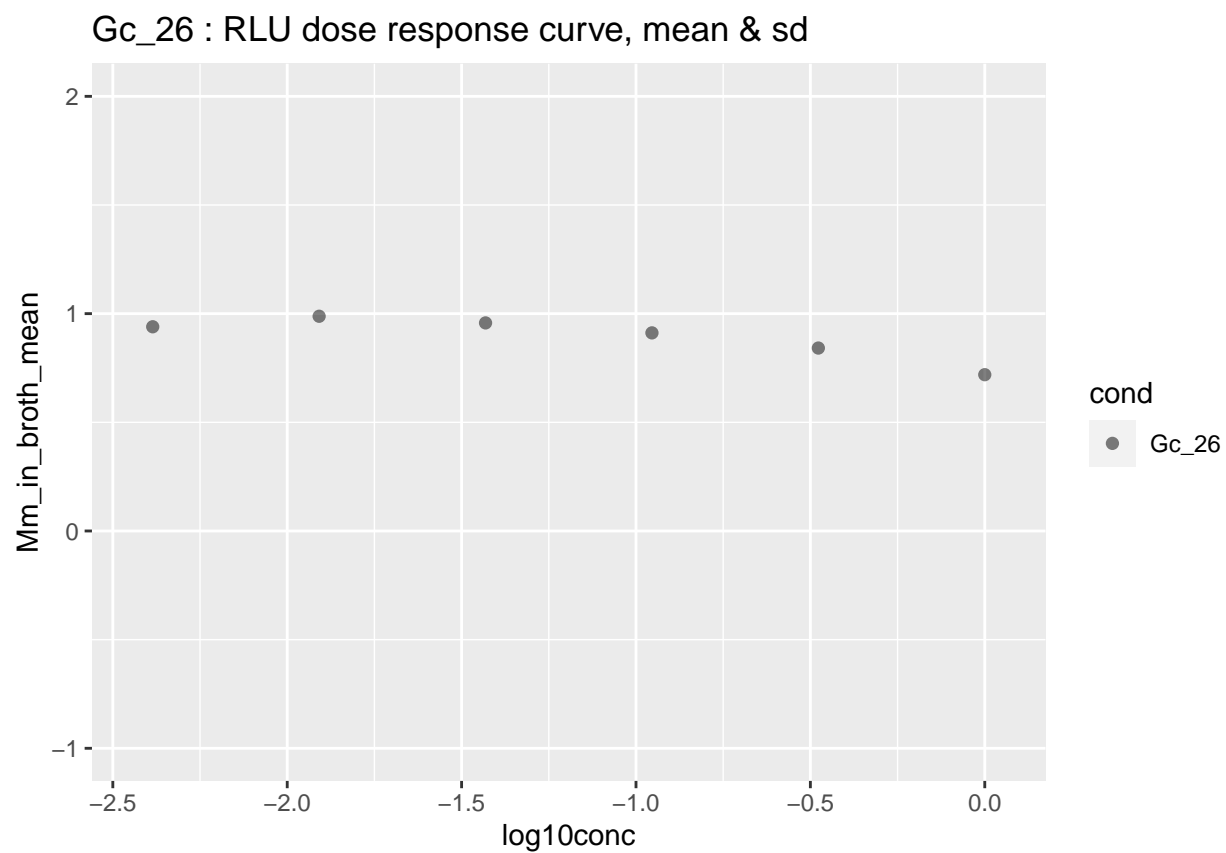
Gc_23 : RLU dose response curve, median & mad

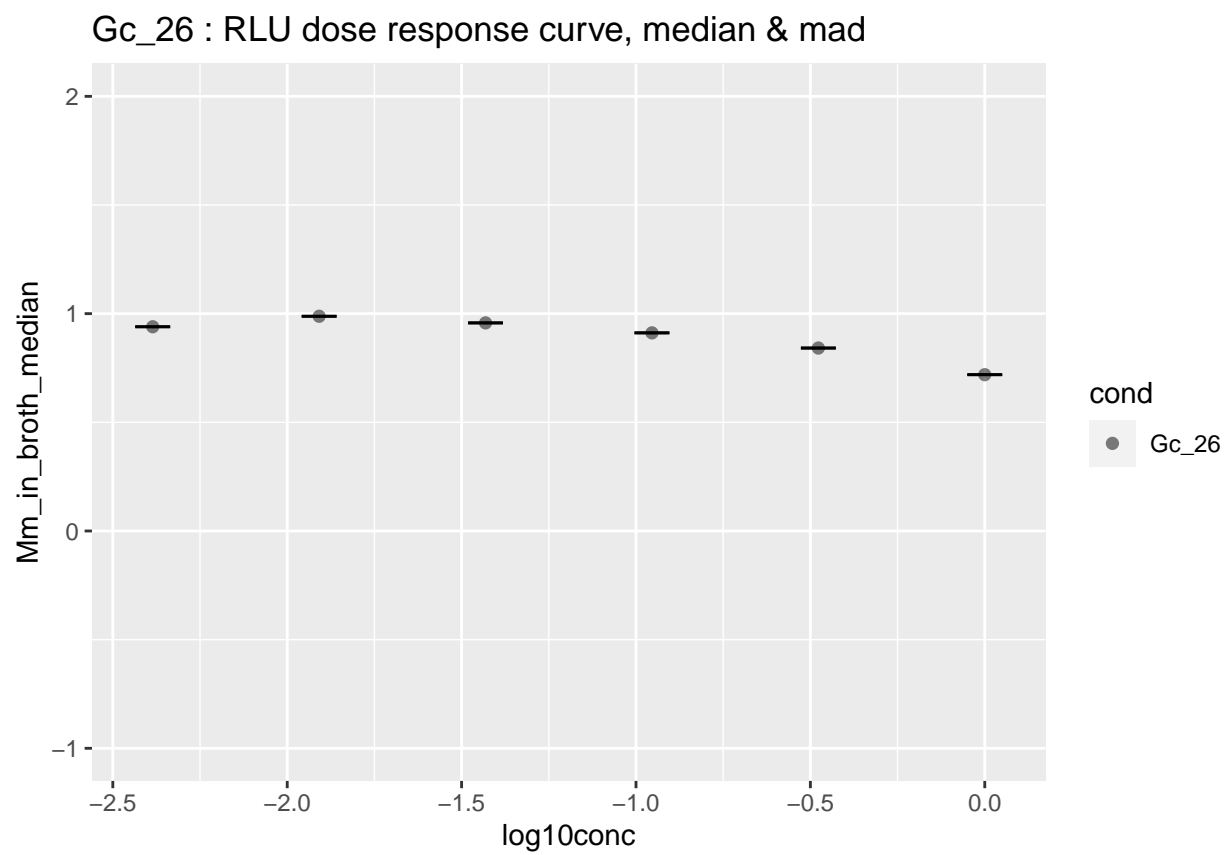


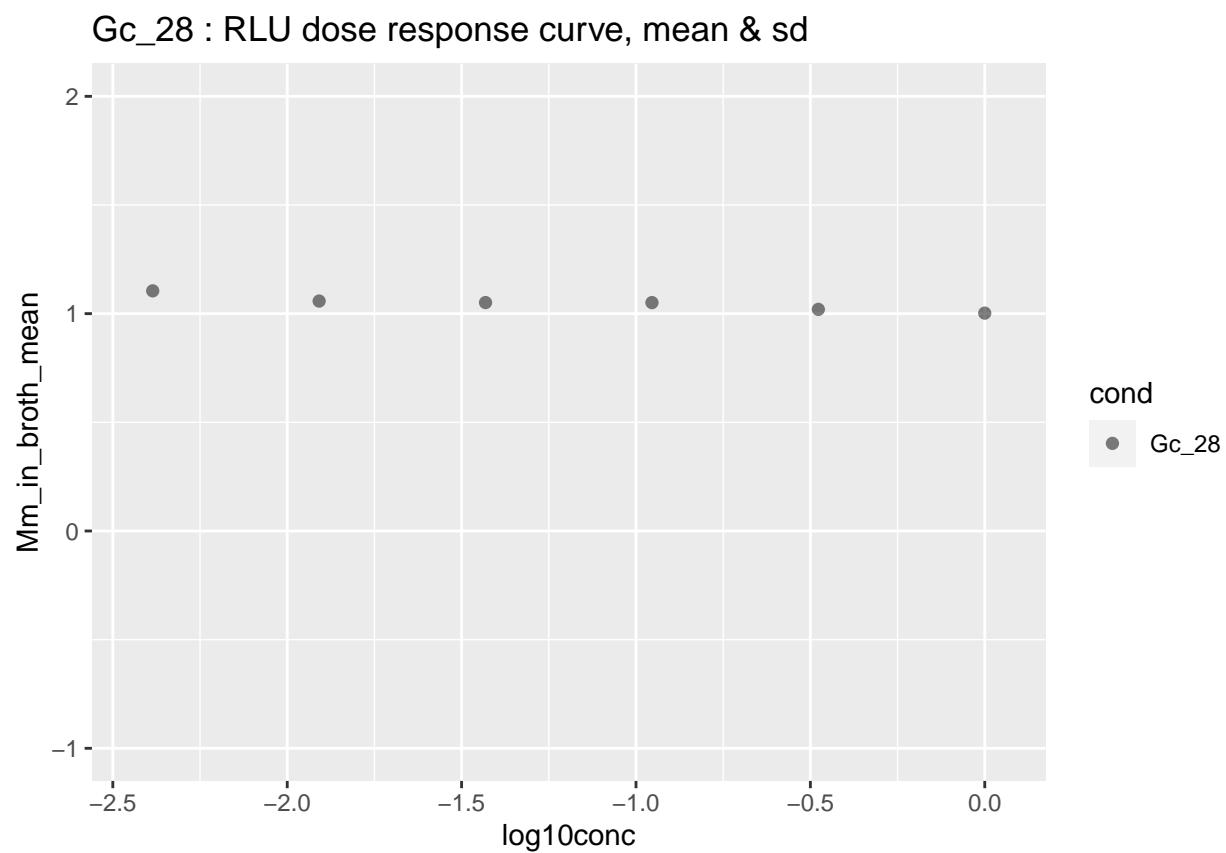


Gc_25 : RLU dose response curve, median & mad

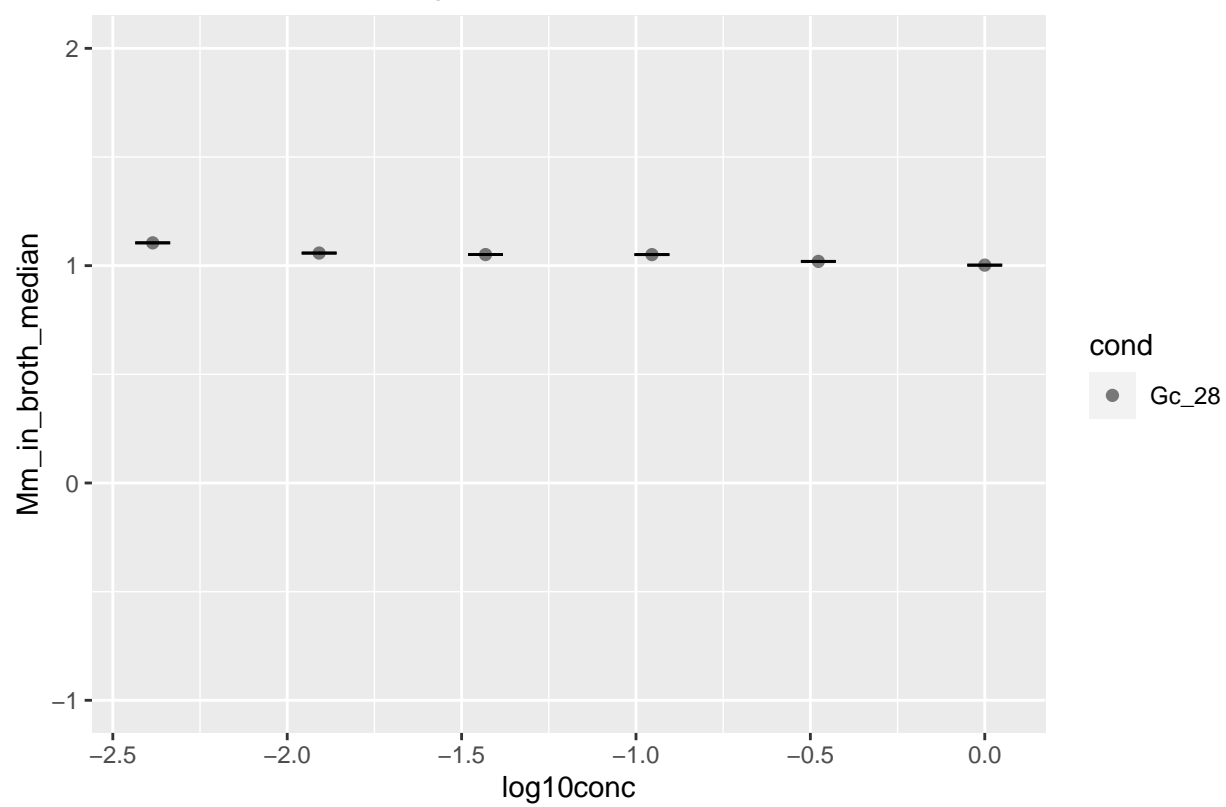


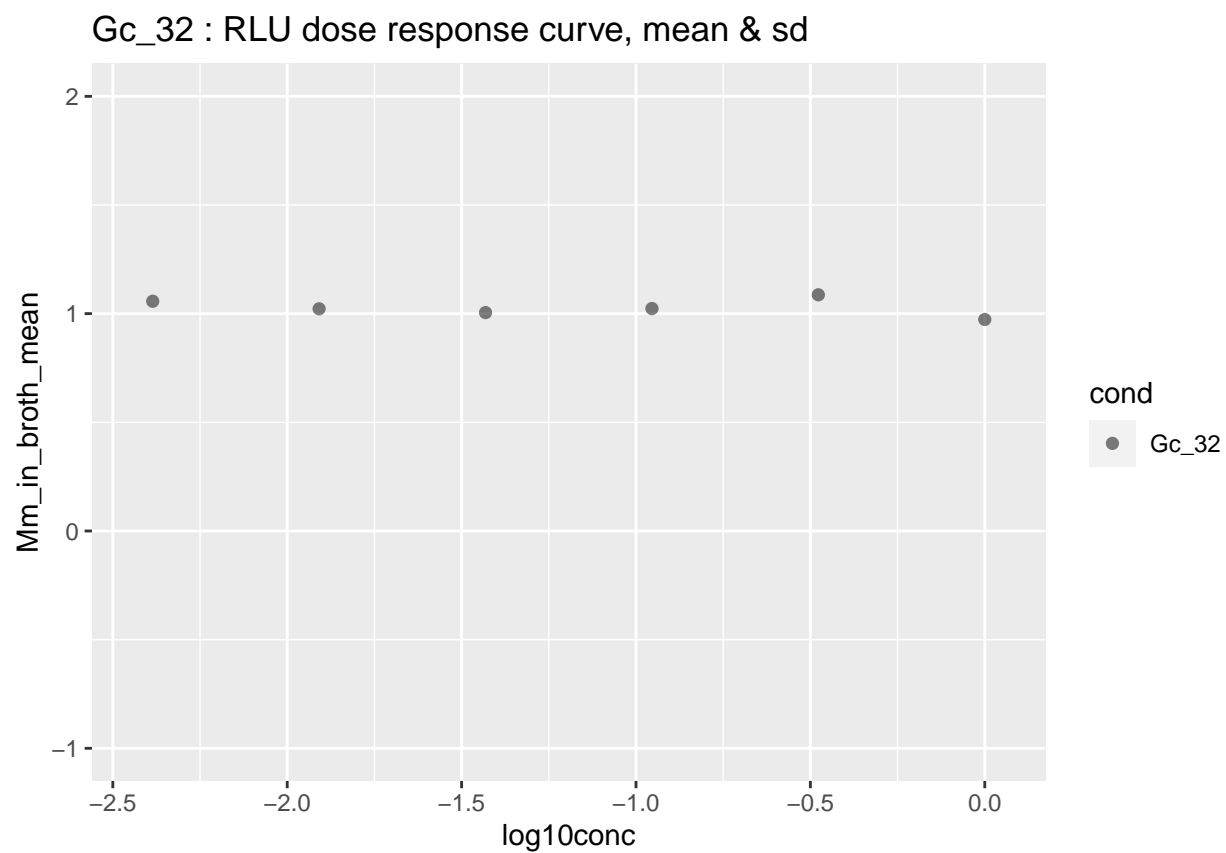




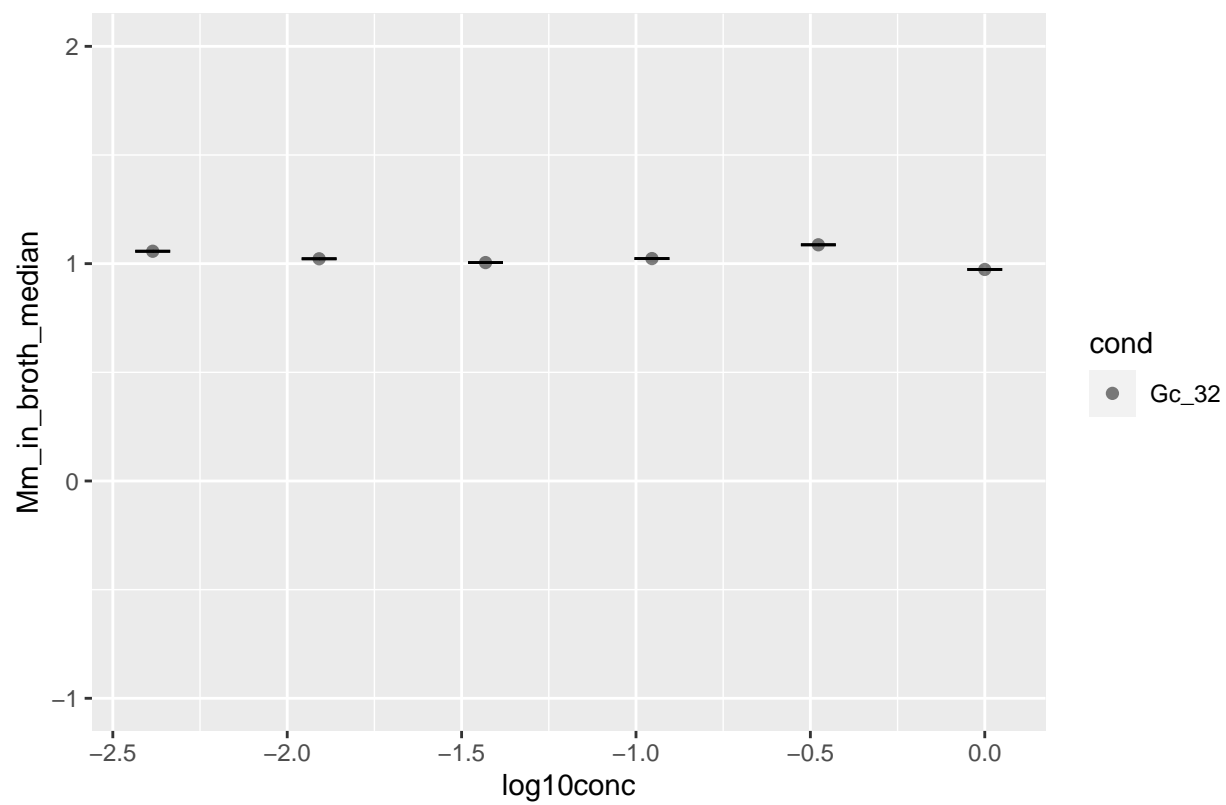


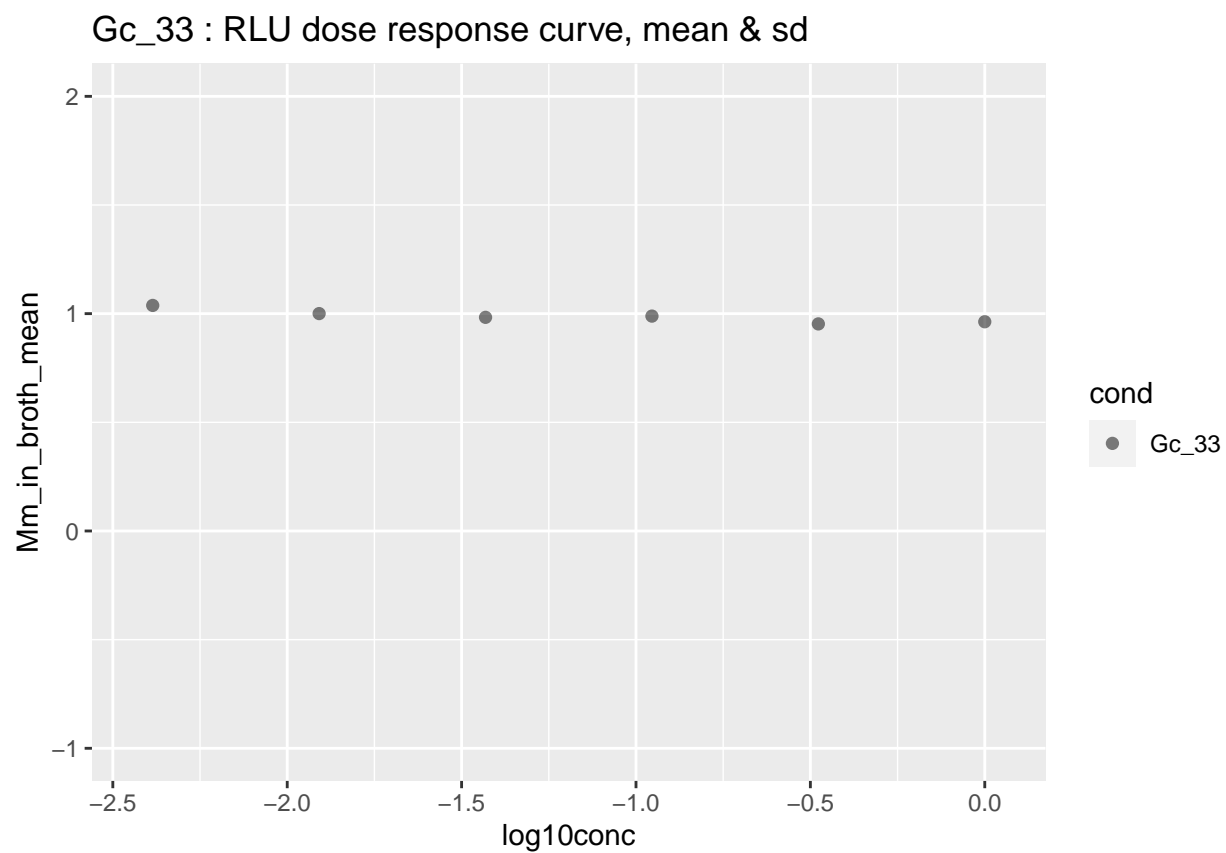
Gc_28 : RLU dose response curve, median & mad



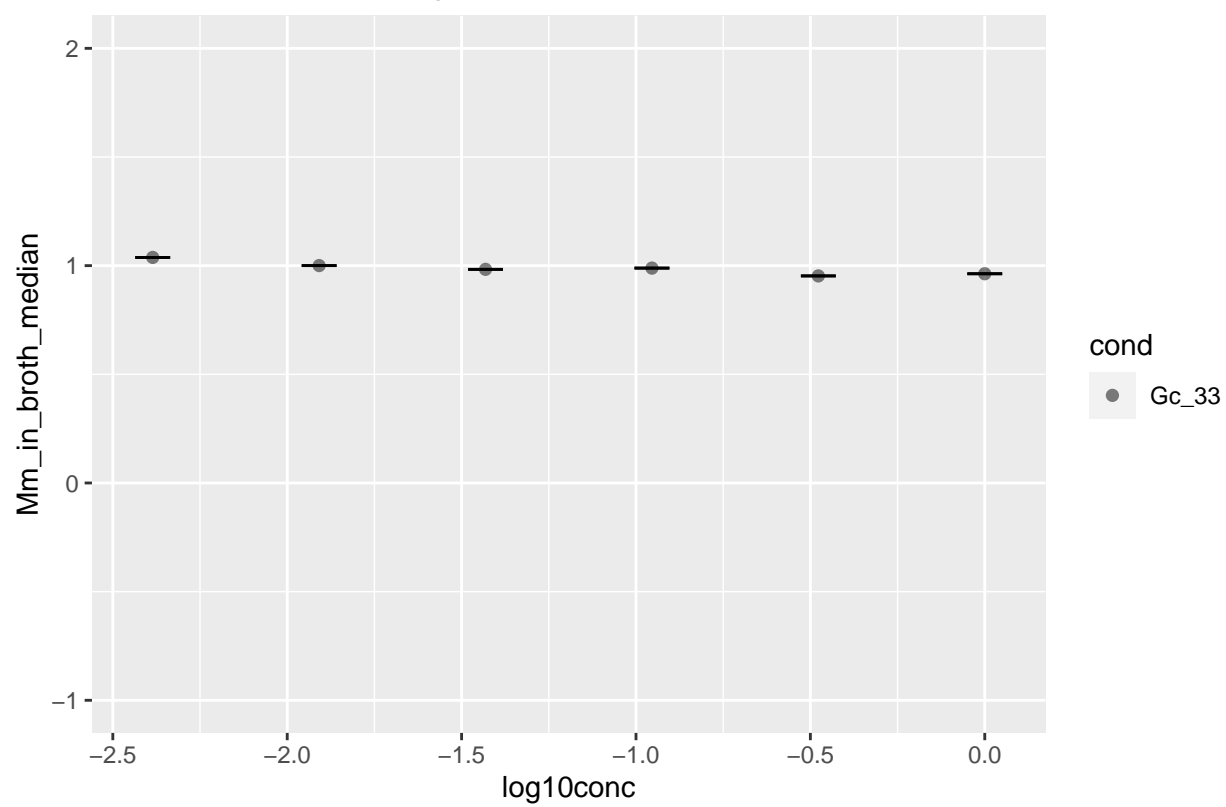


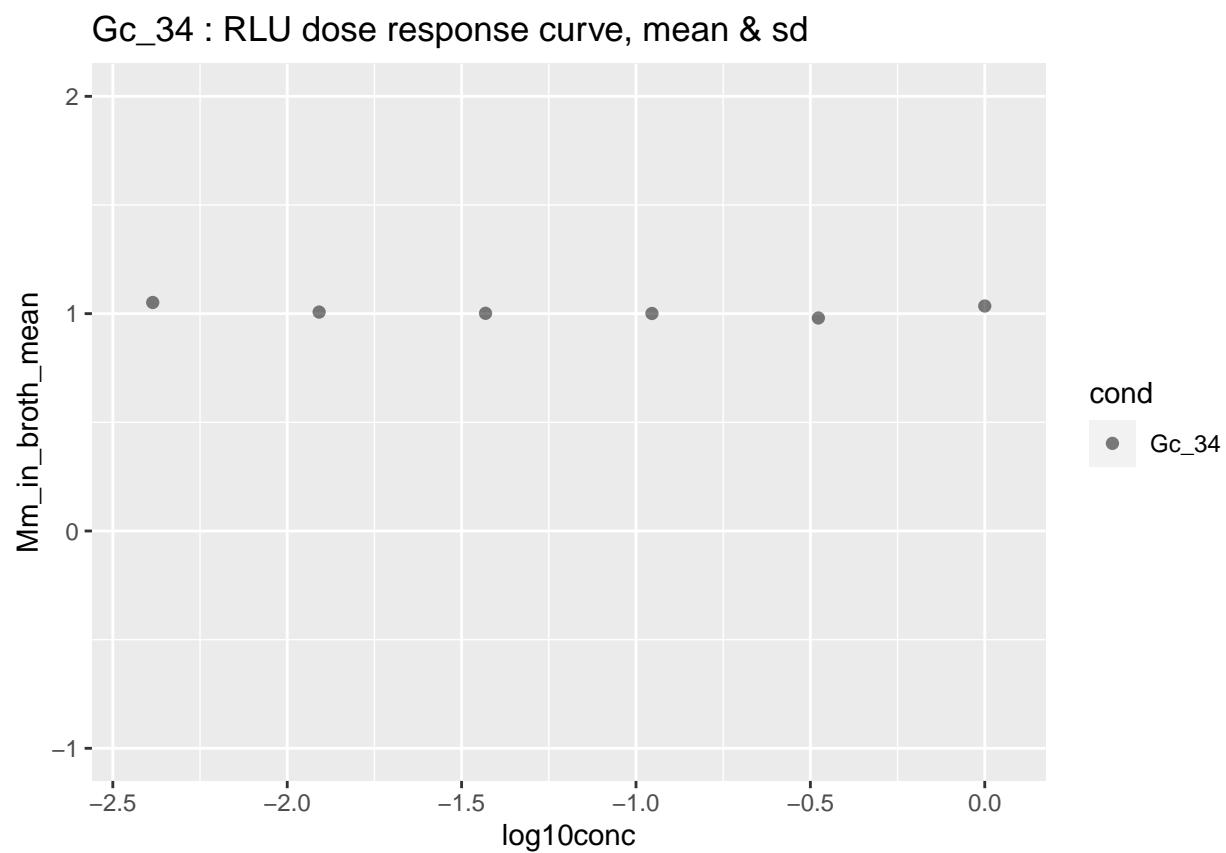
Gc_32 : RLU dose response curve, median & mad



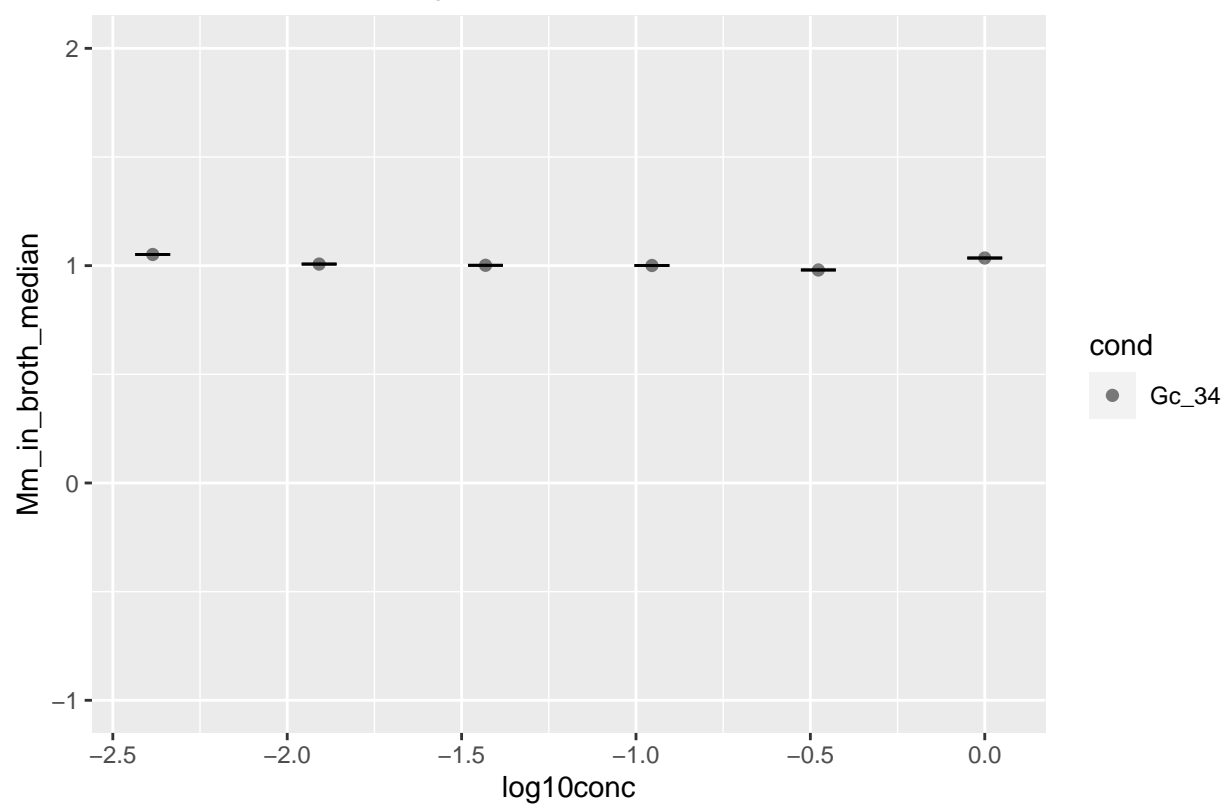


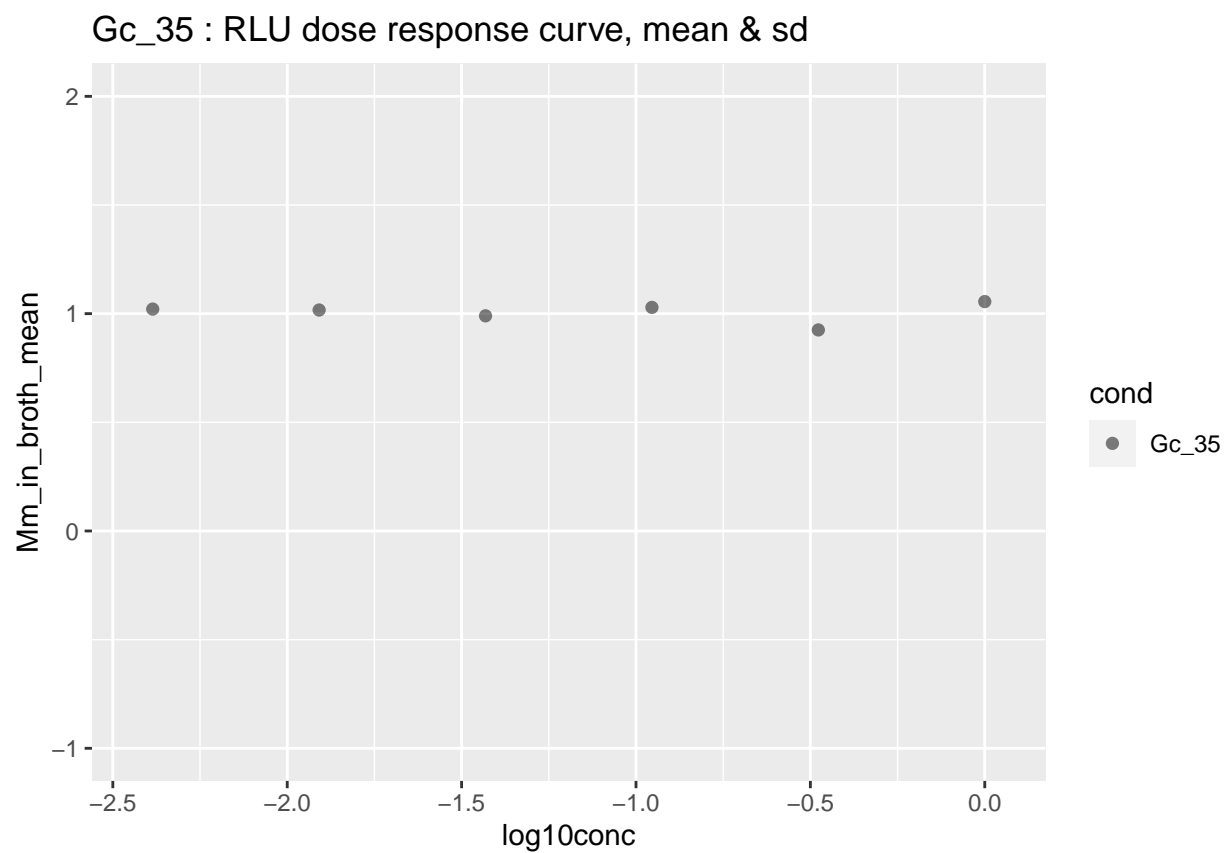
Gc_33 : RLU dose response curve, median & mad



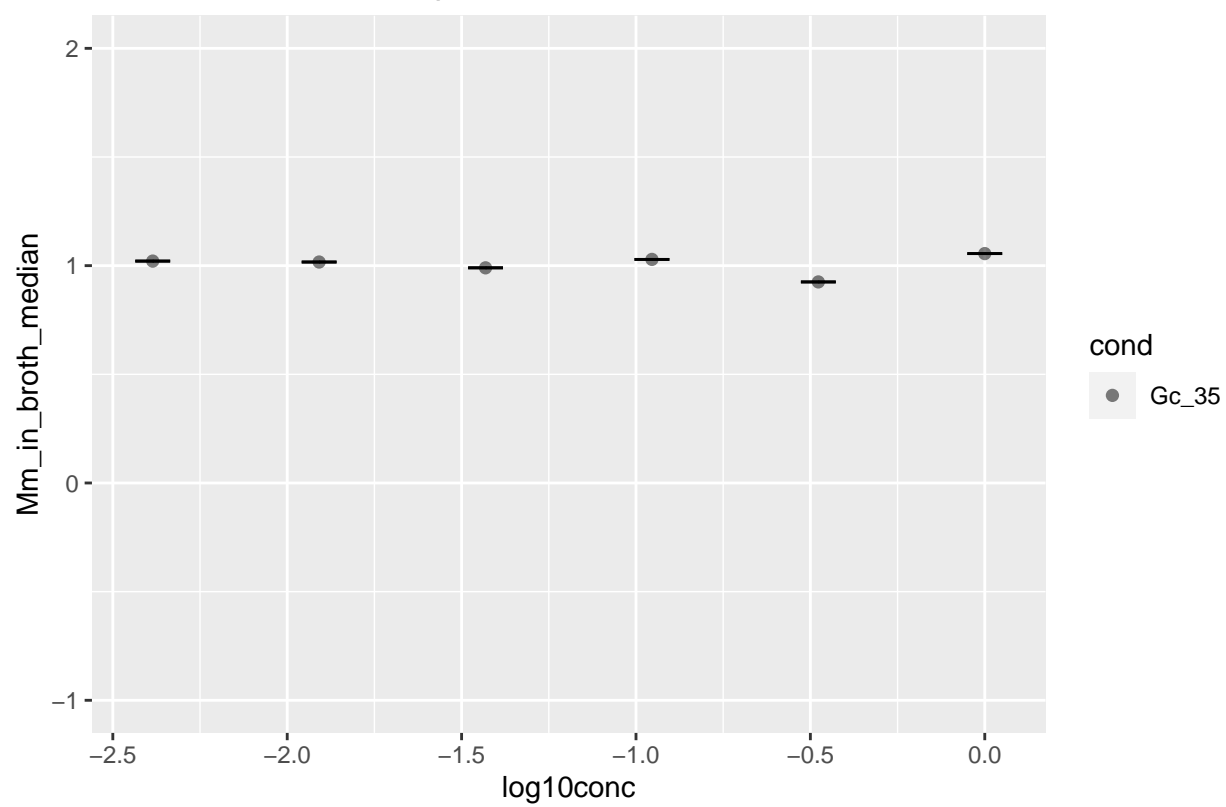


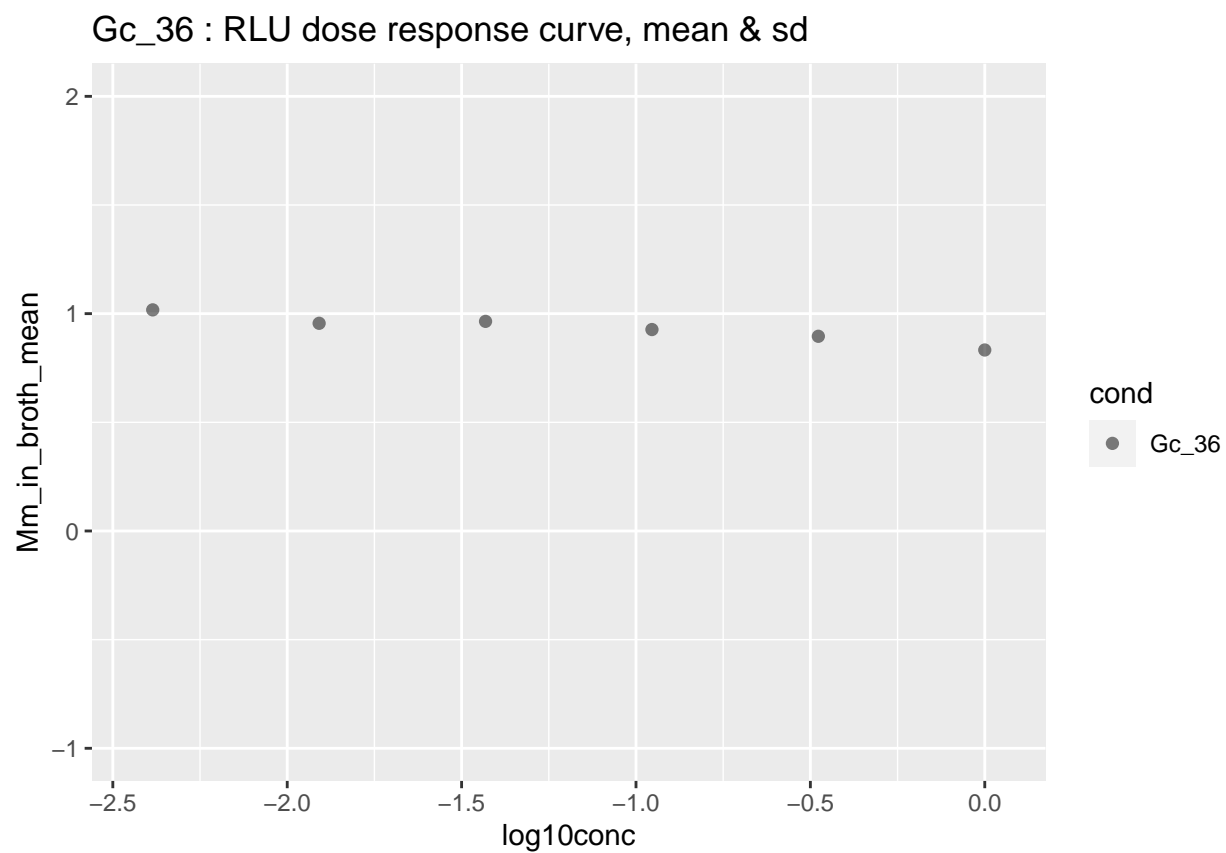
Gc_34 : RLU dose response curve, median & mad

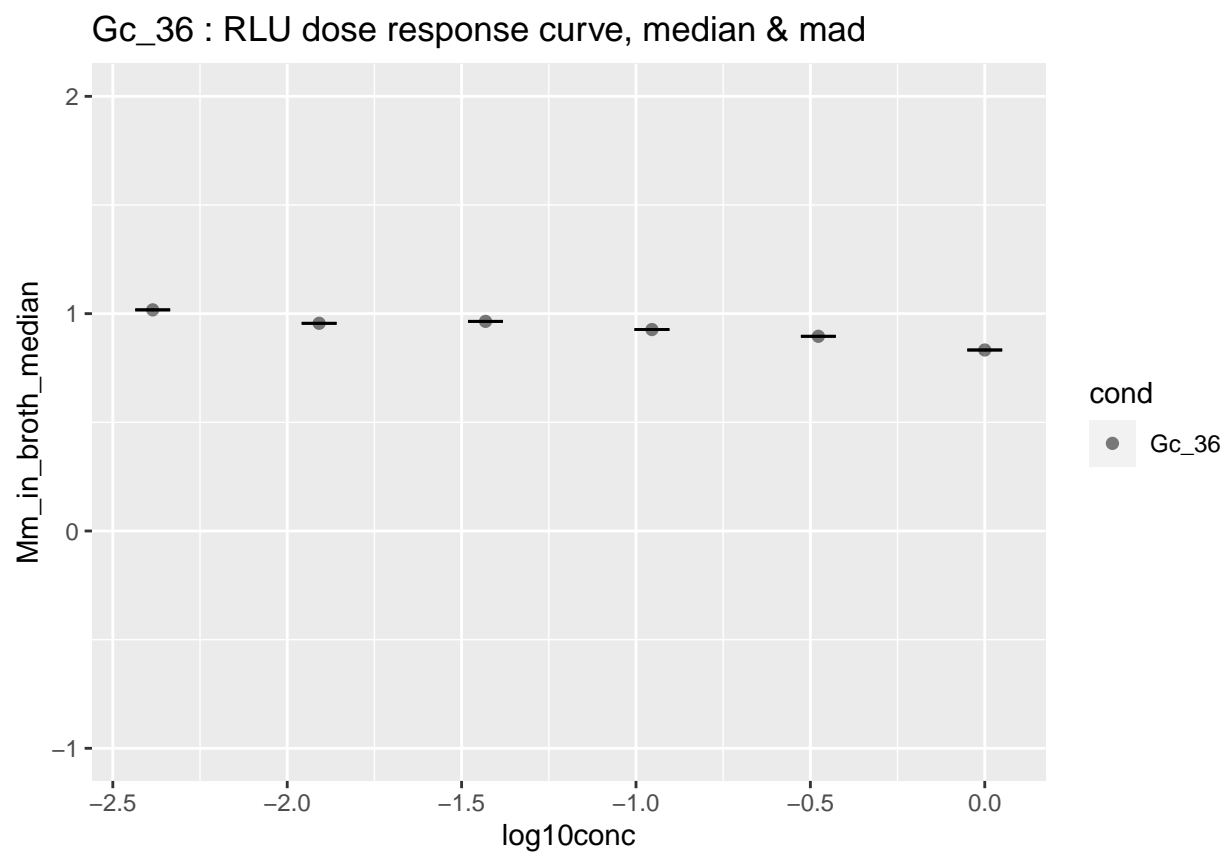


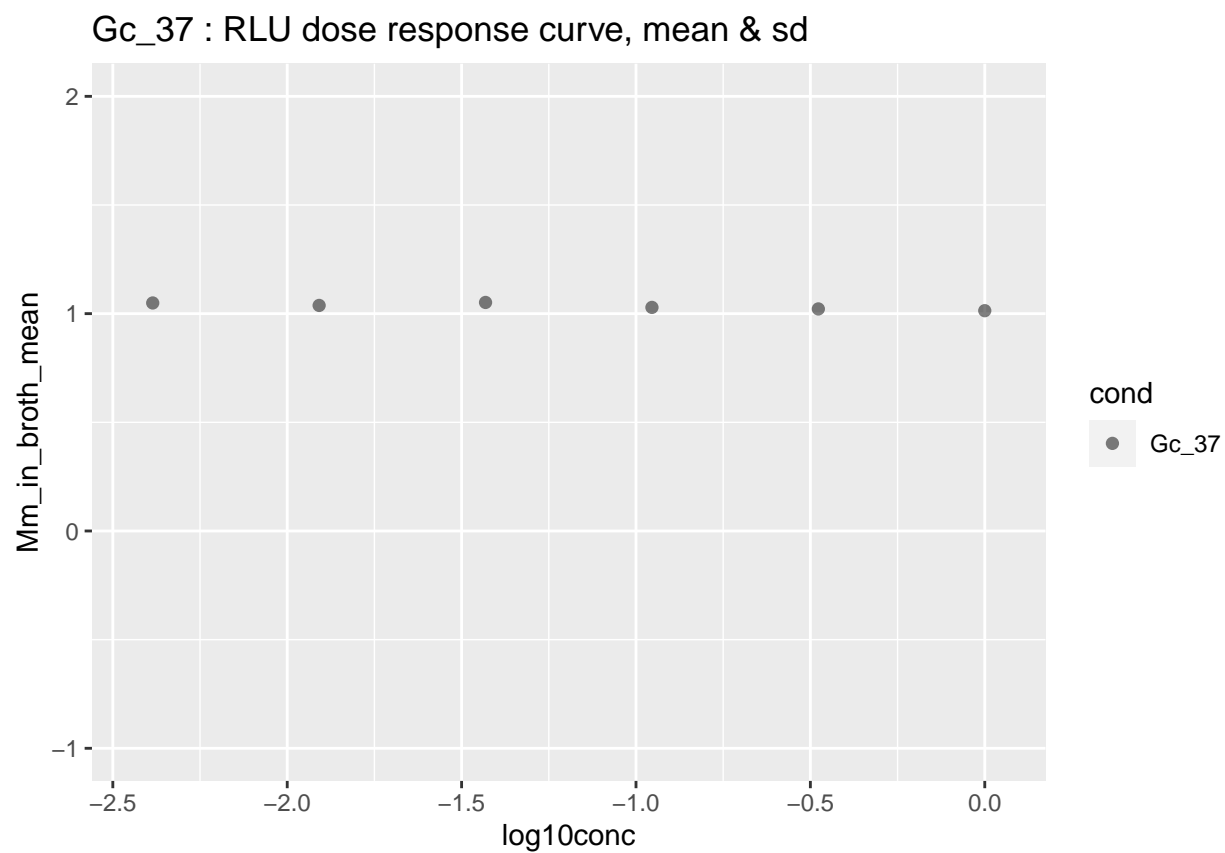


Gc_35 : RLU dose response curve, median & mad

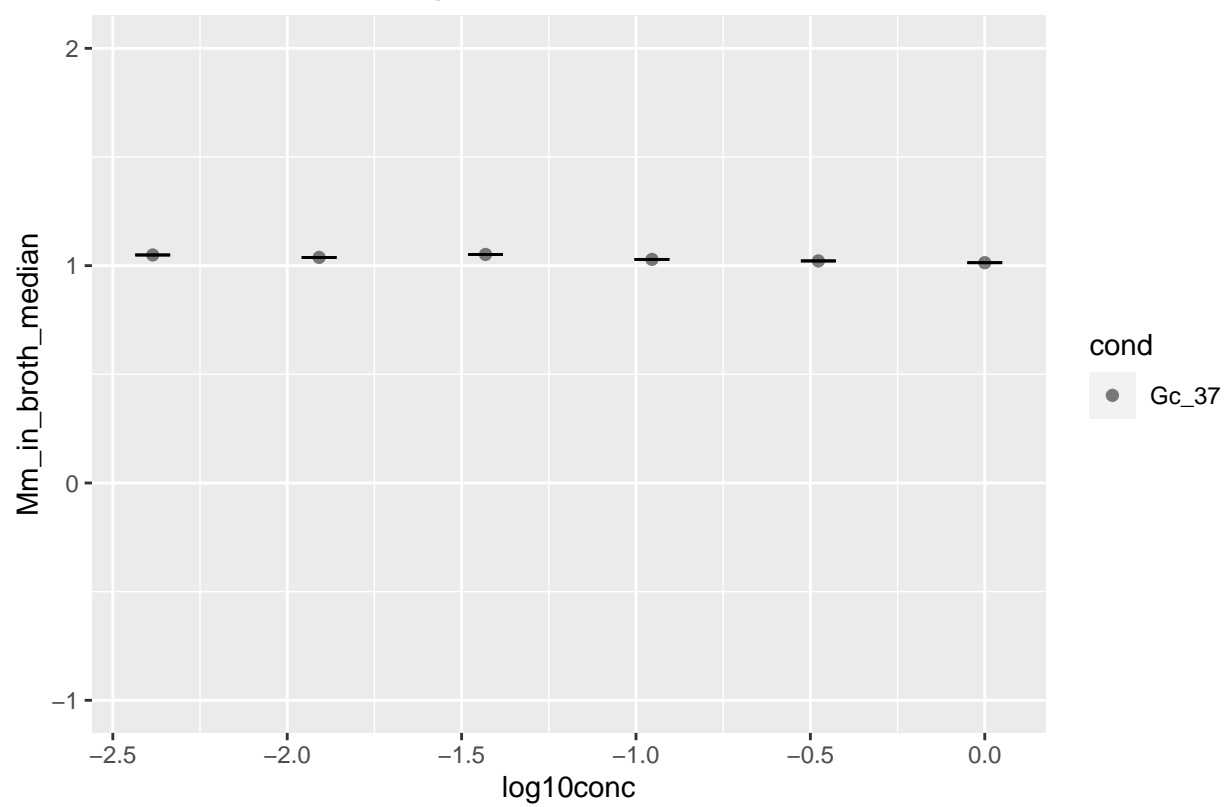


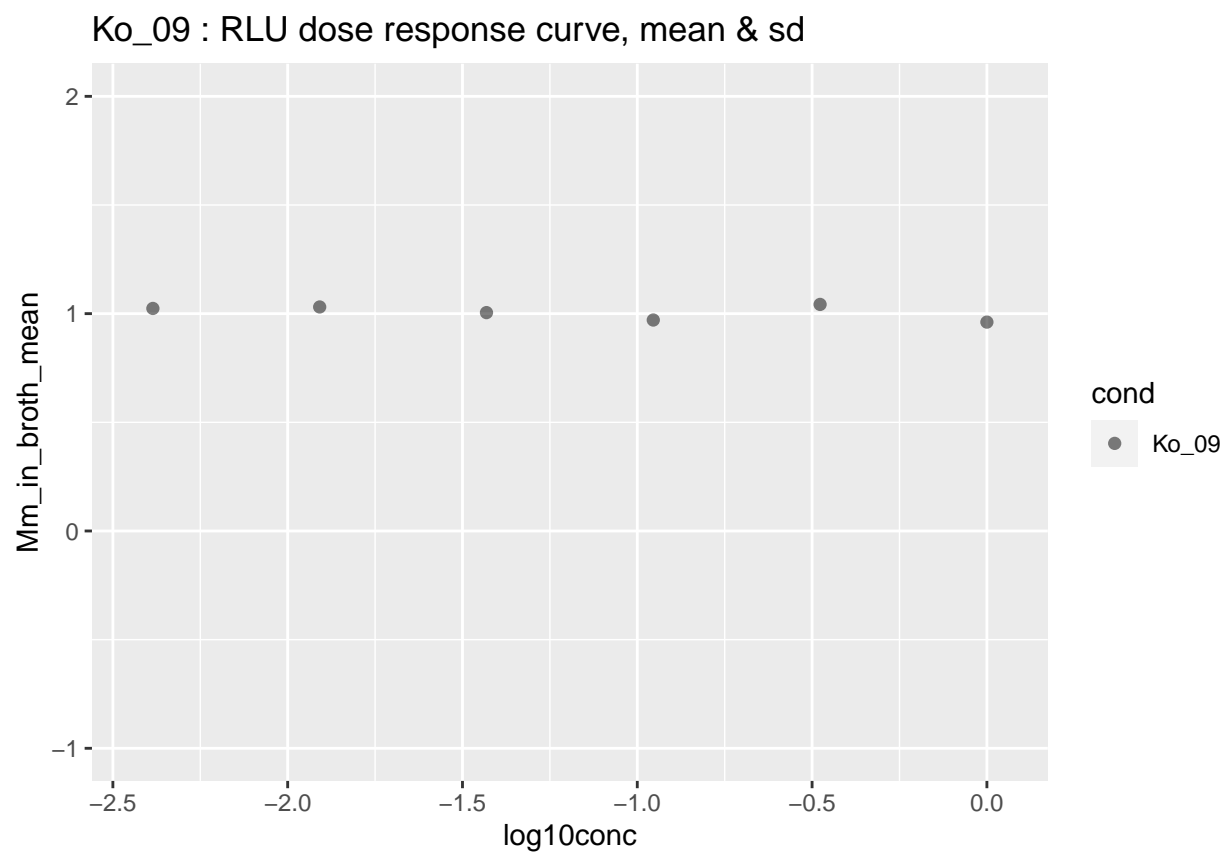


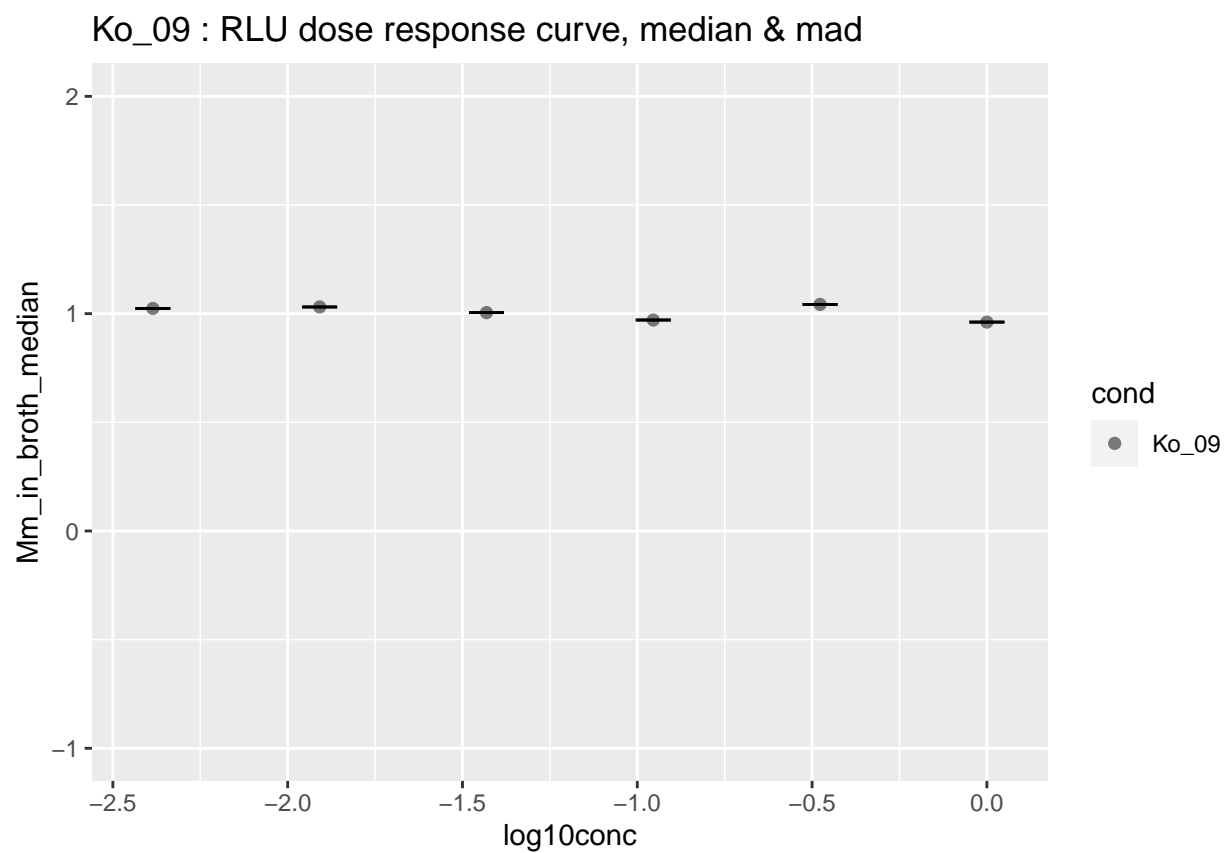


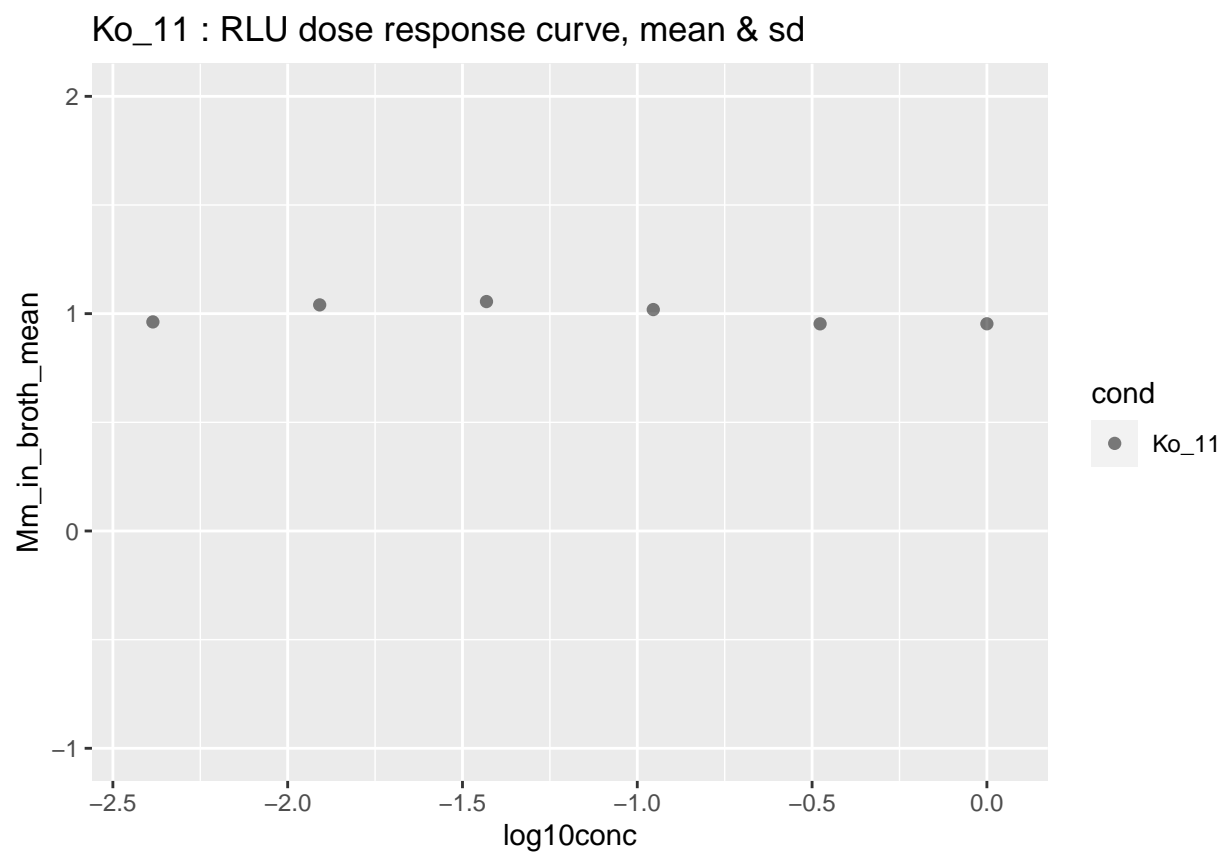


Gc_37 : RLU dose response curve, median & mad

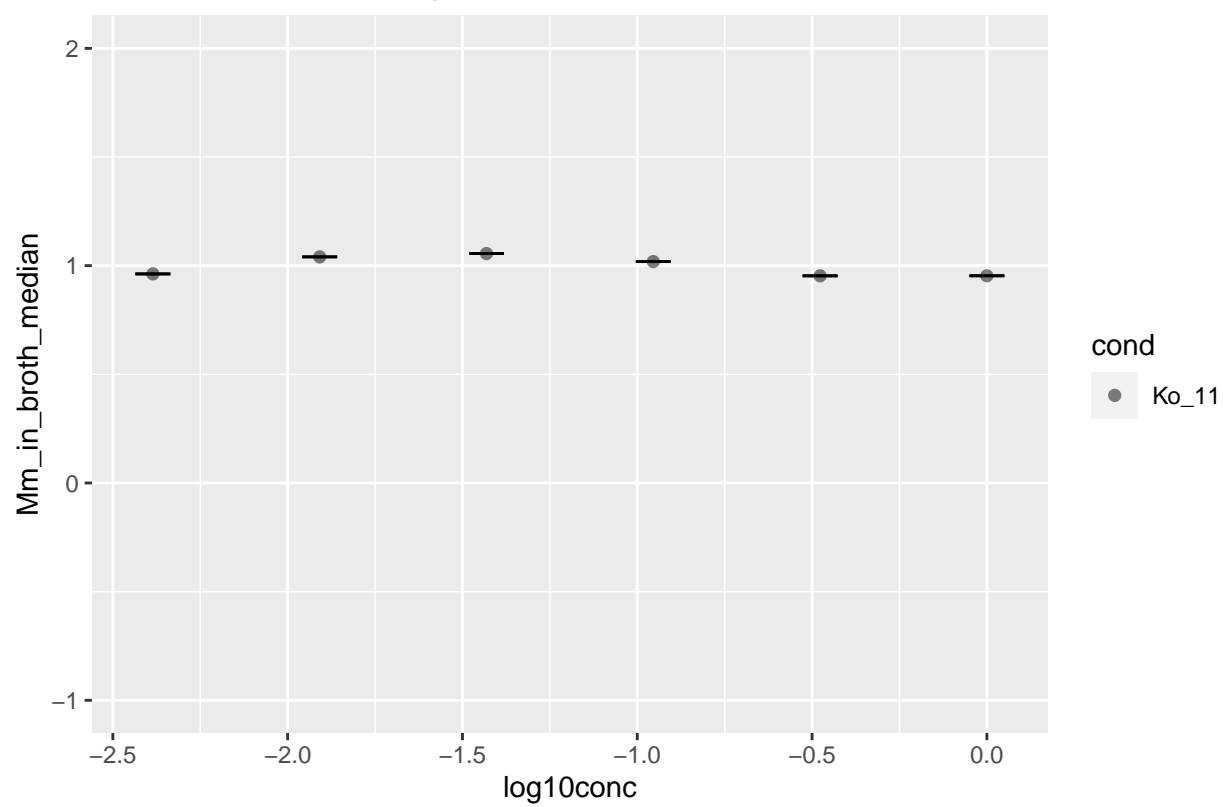


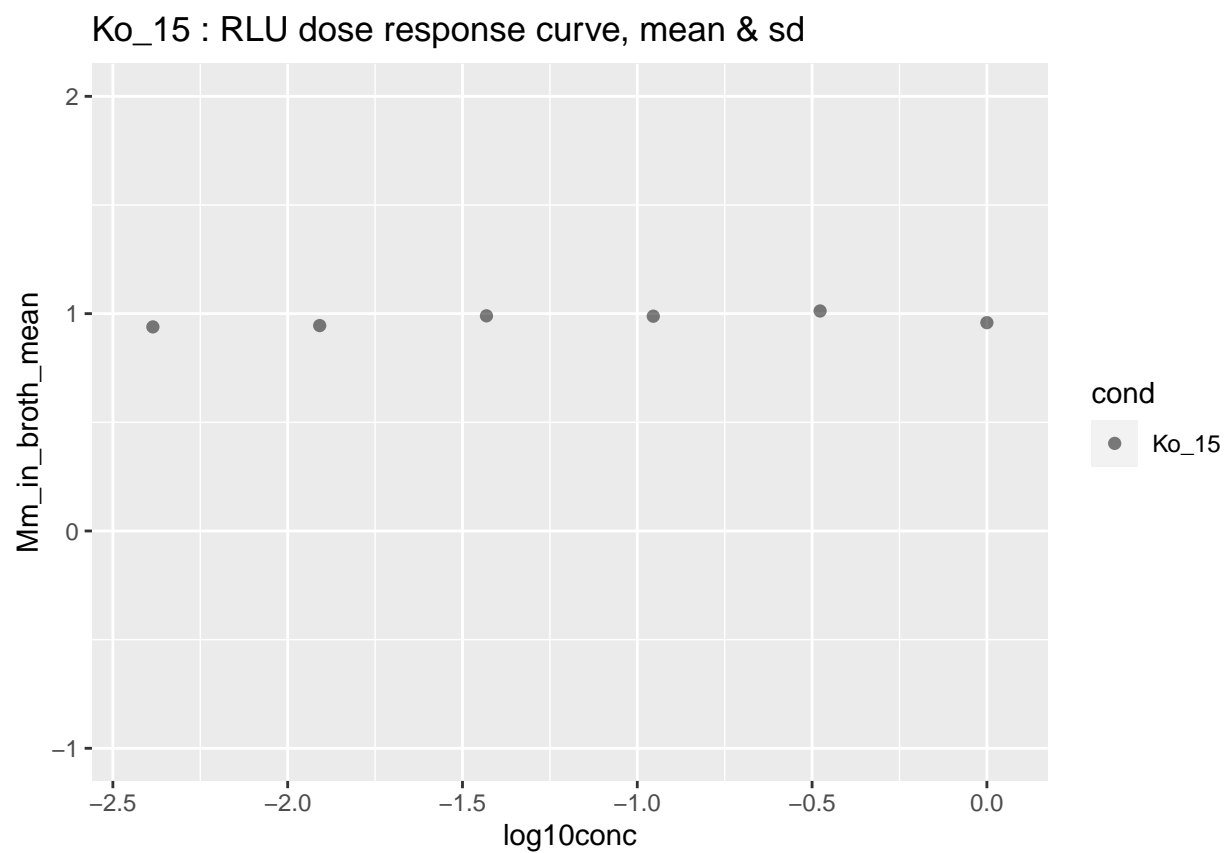




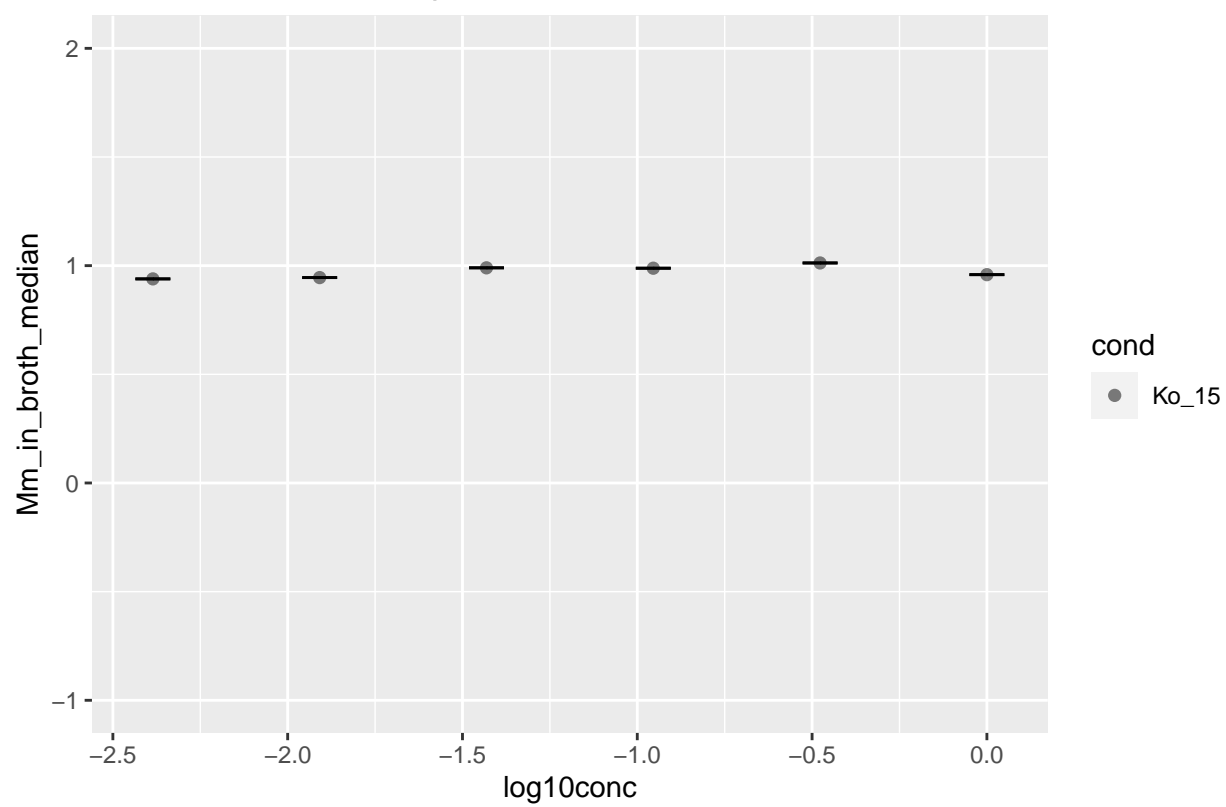


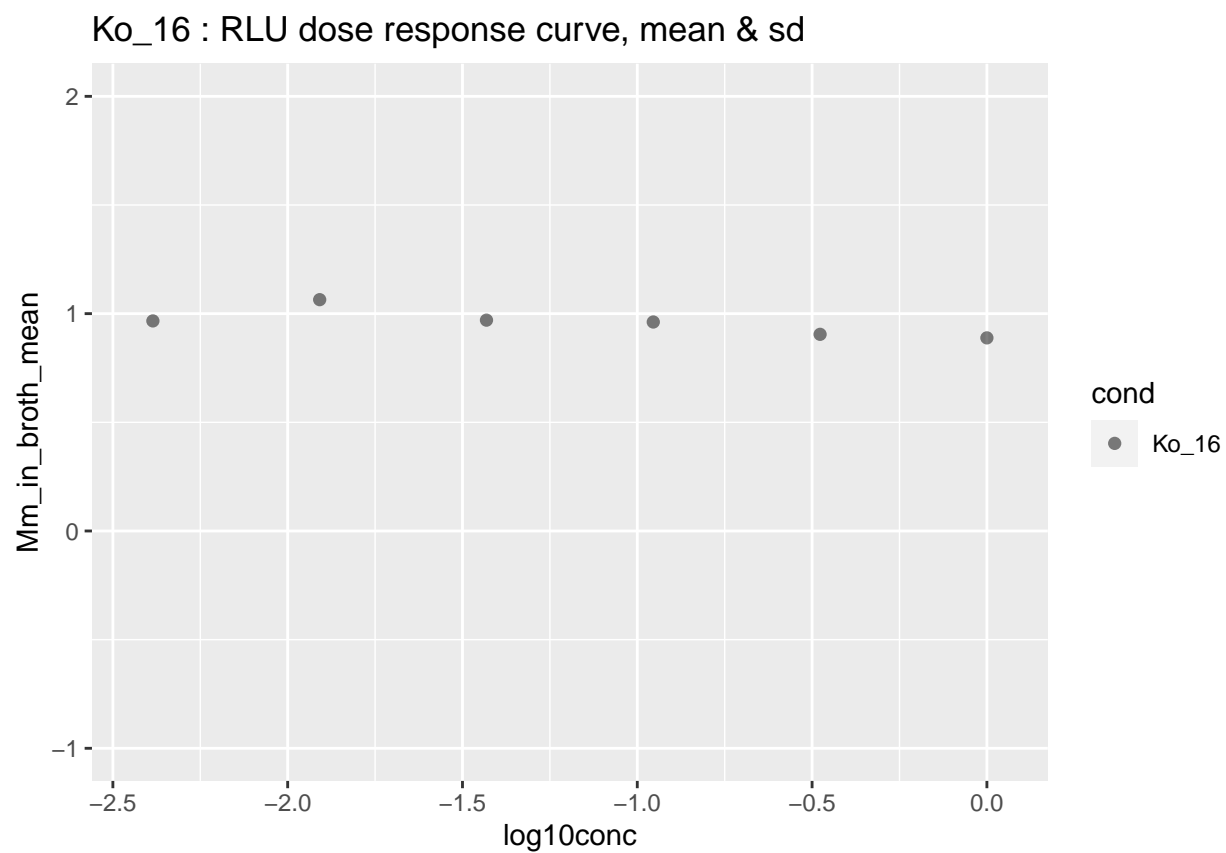
Ko_11 : RLU dose response curve, median & mad

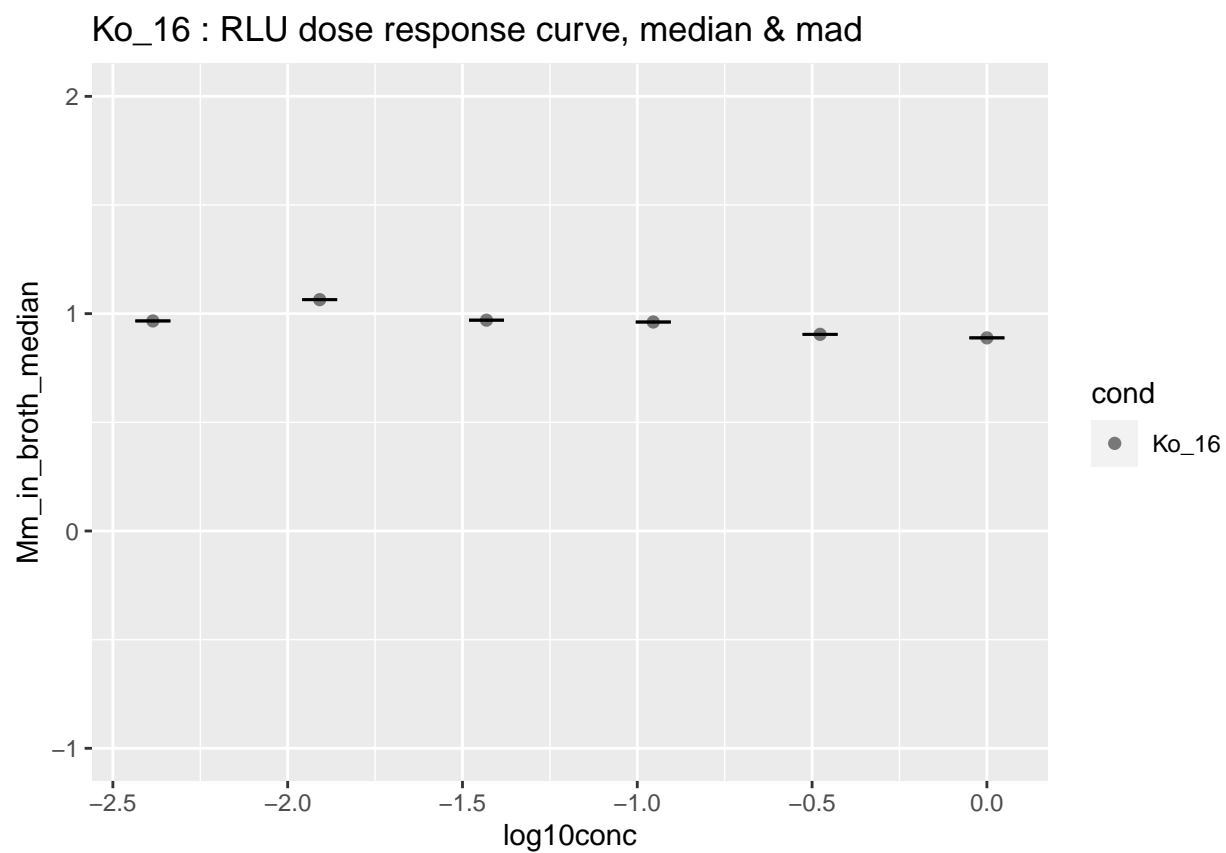




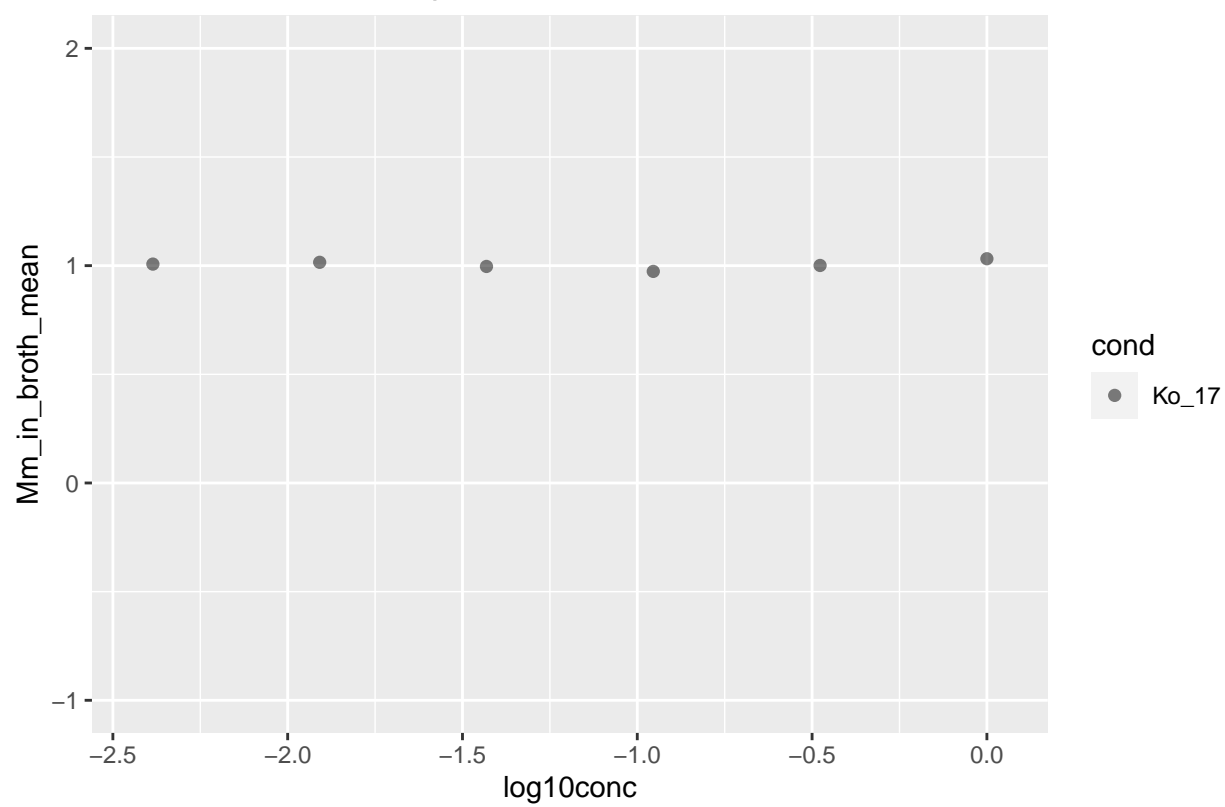
Ko_15 : RLU dose response curve, median & mad



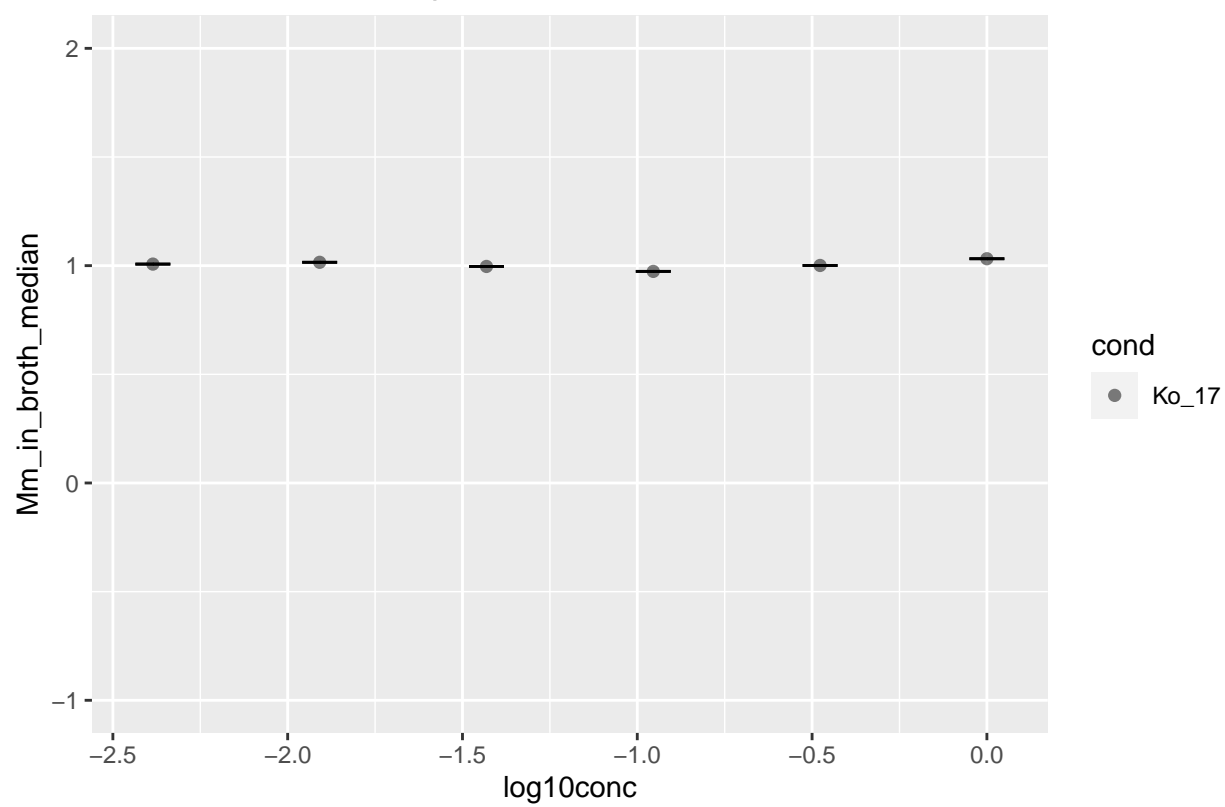


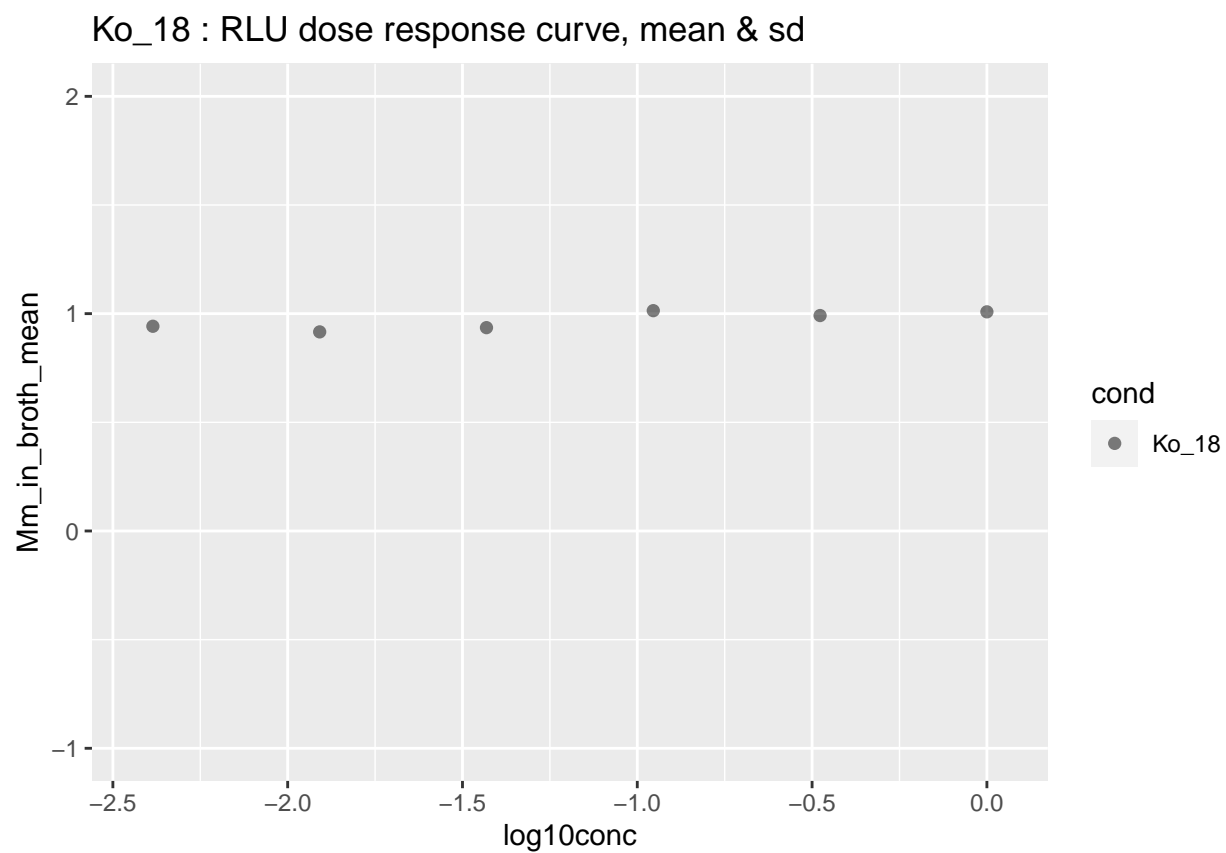


Ko_17 : RLU dose response curve, mean & sd

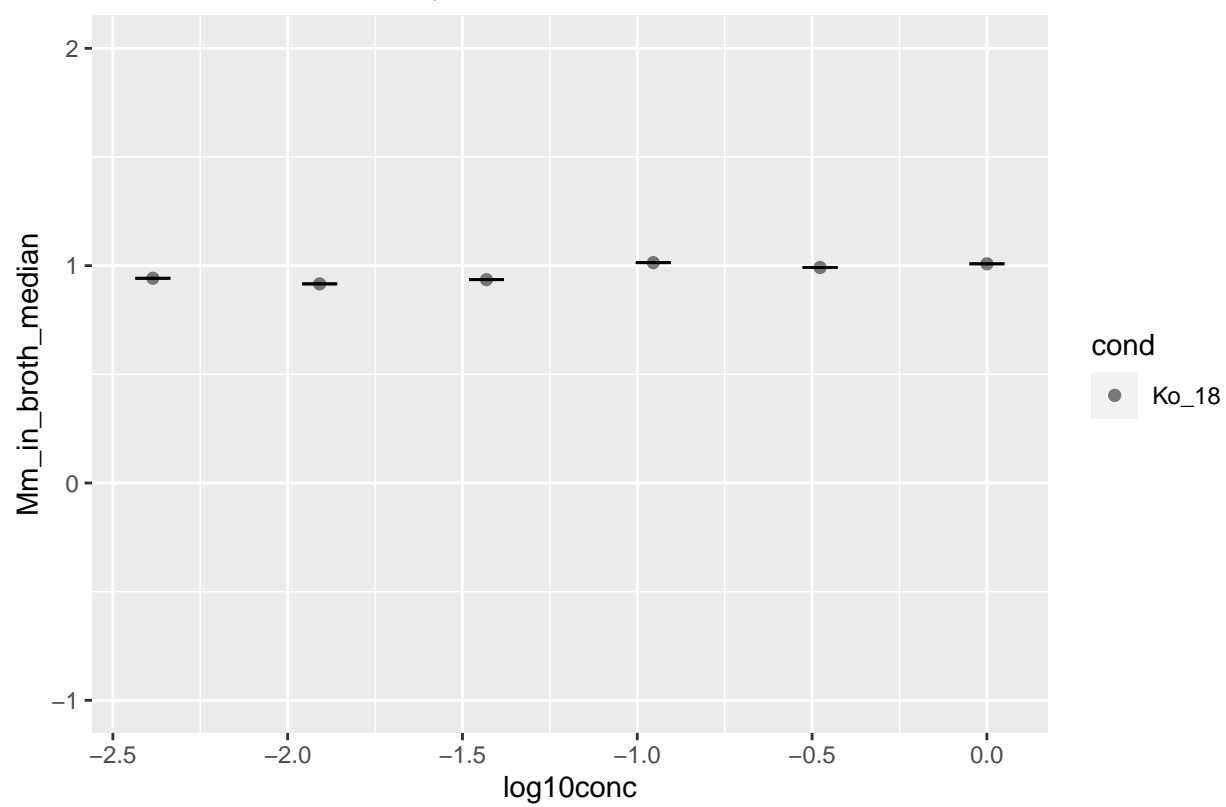


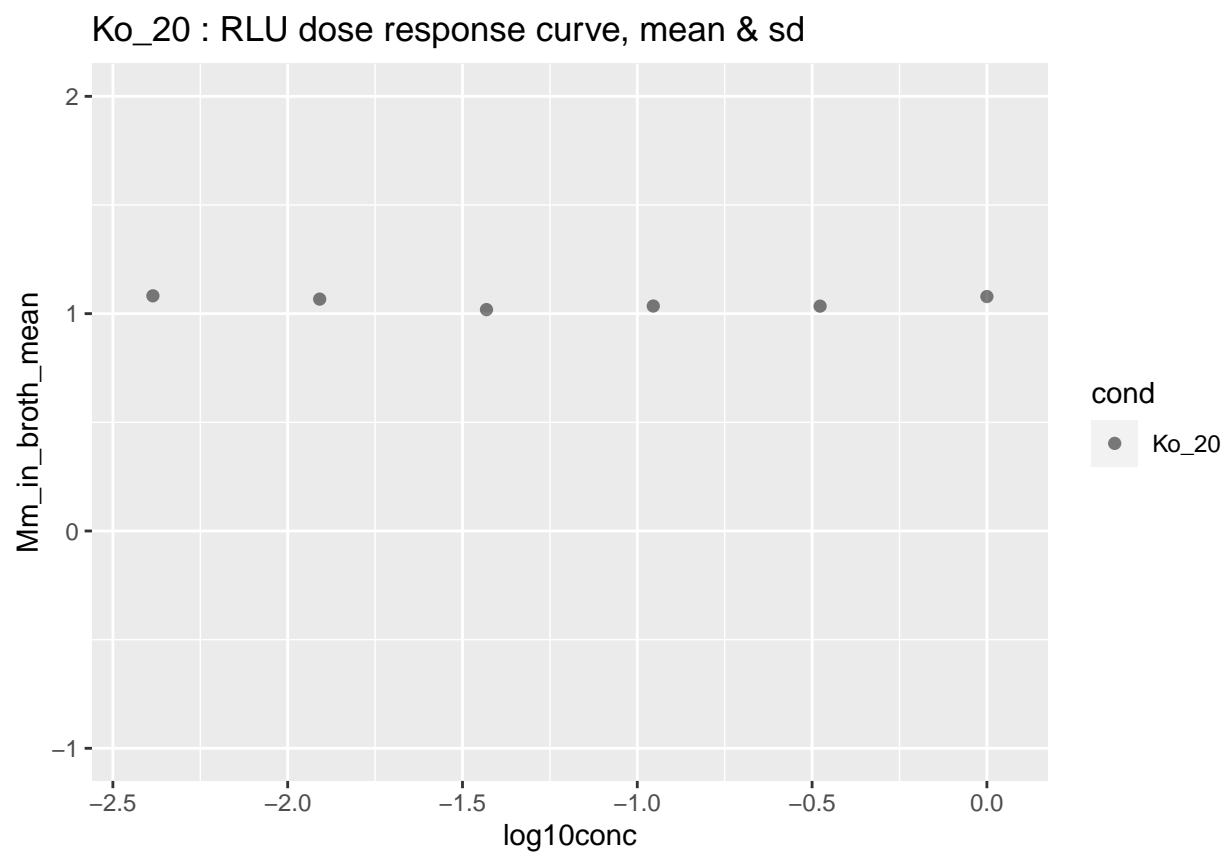
Ko_17 : RLU dose response curve, median & mad

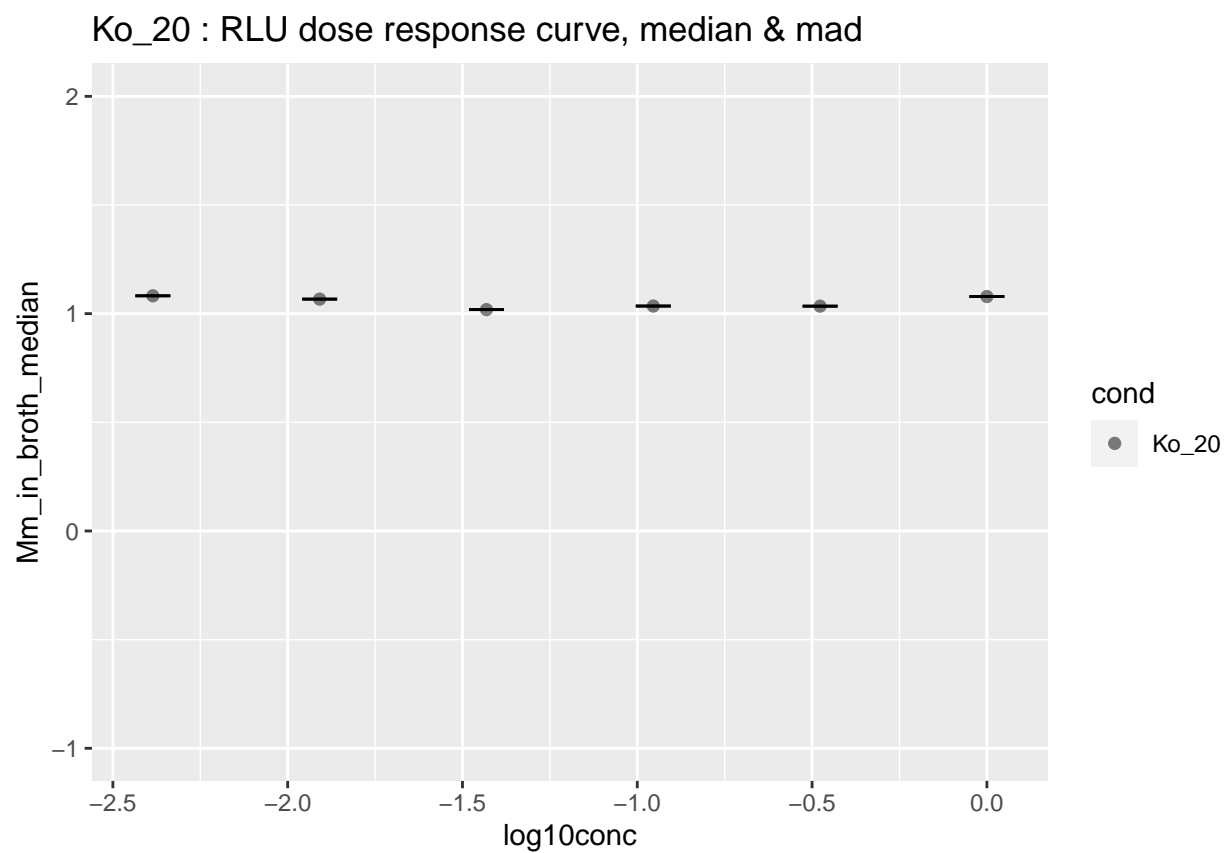


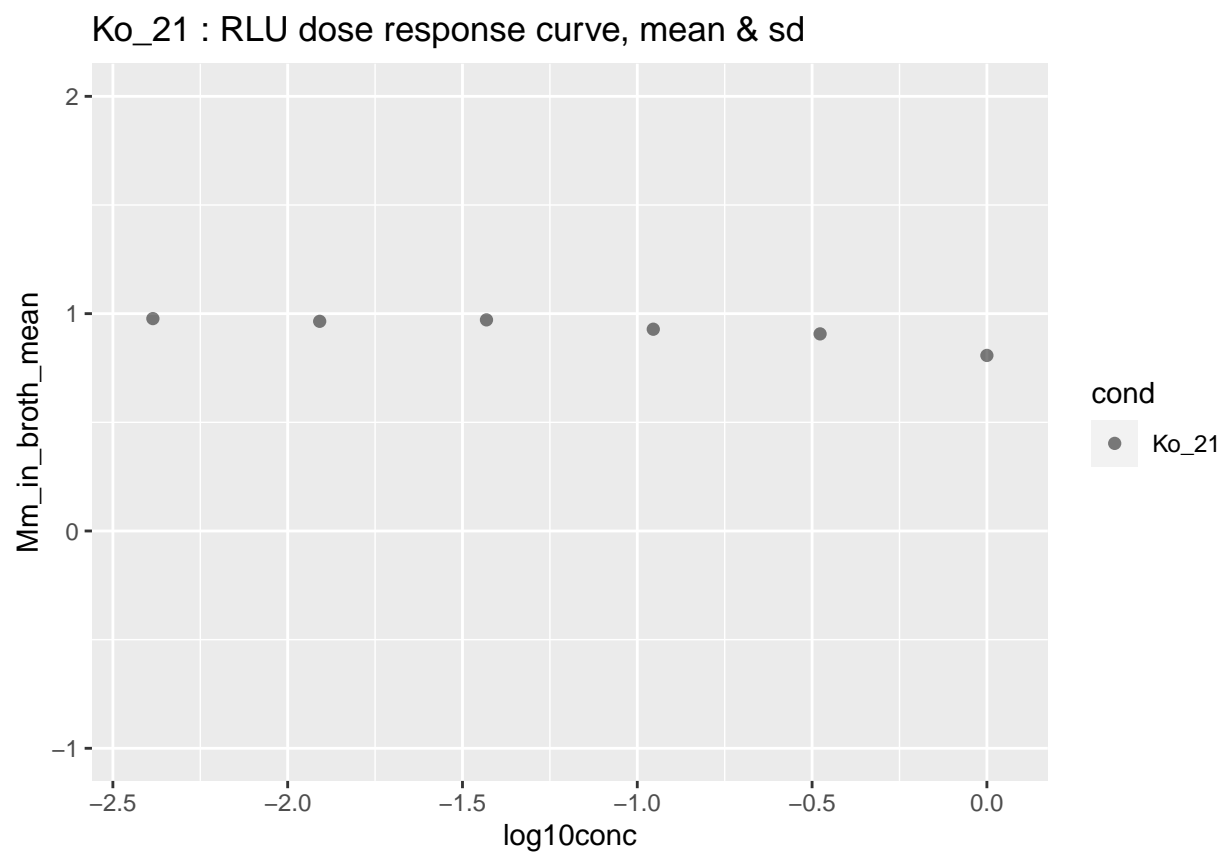


Ko_18 : RLU dose response curve, median & mad

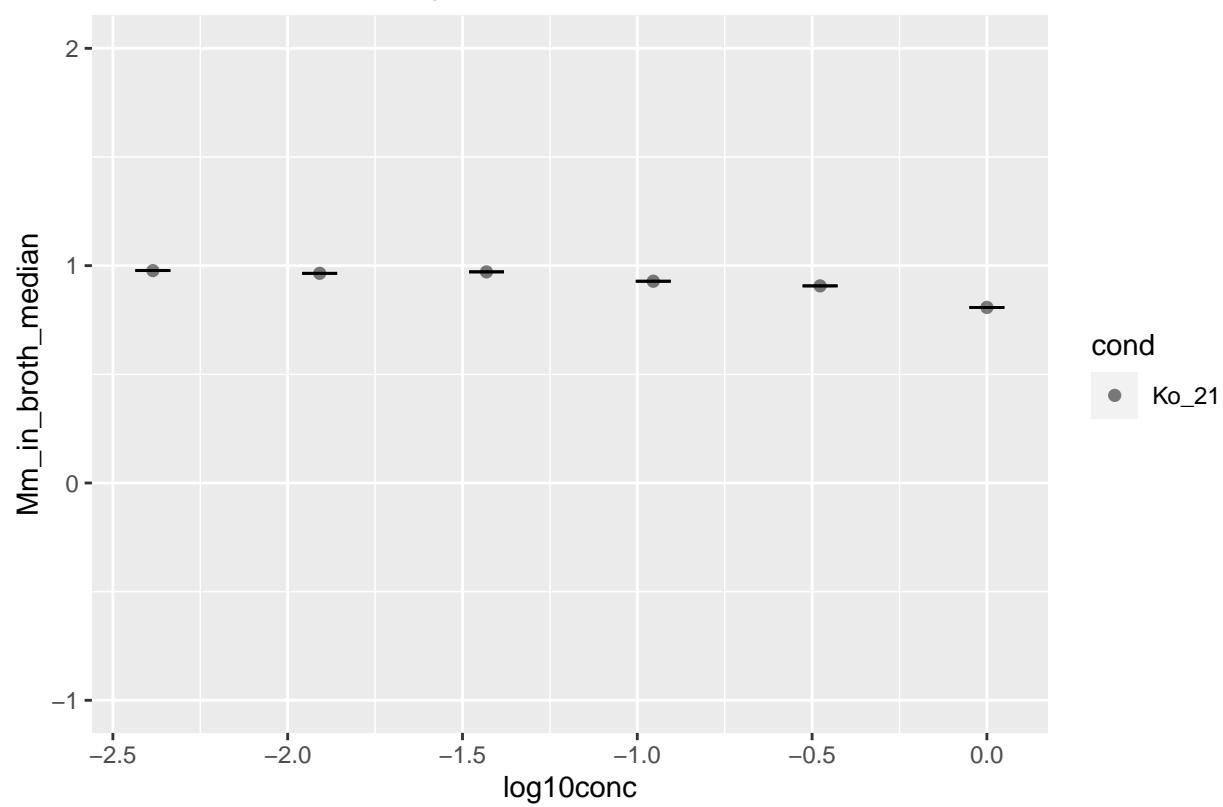


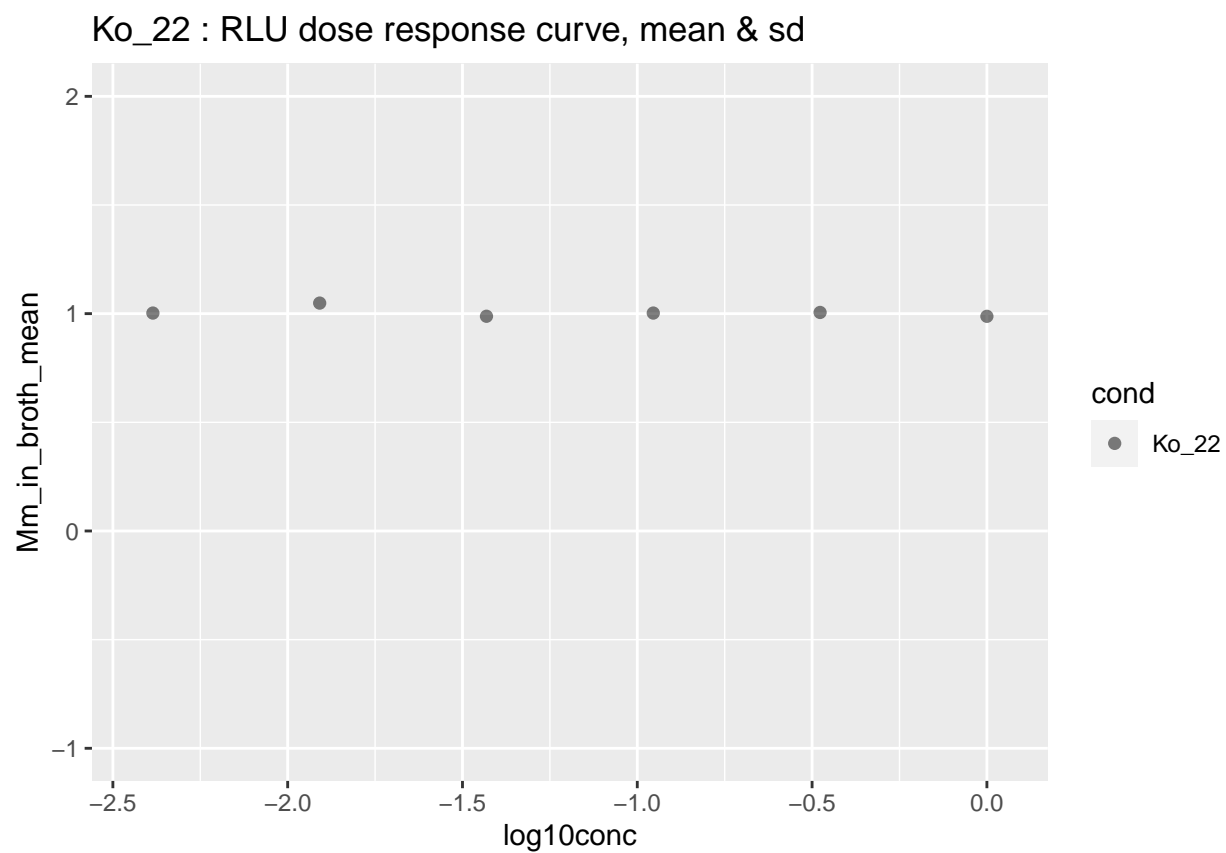




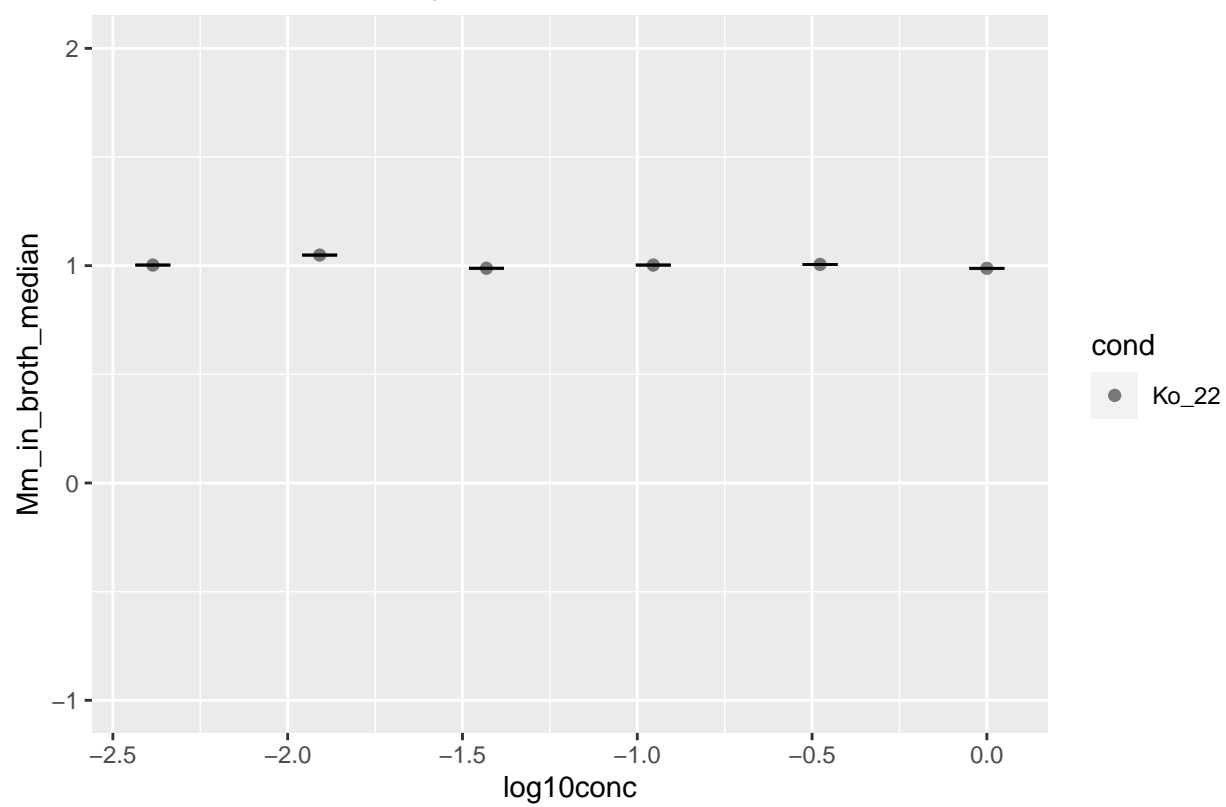


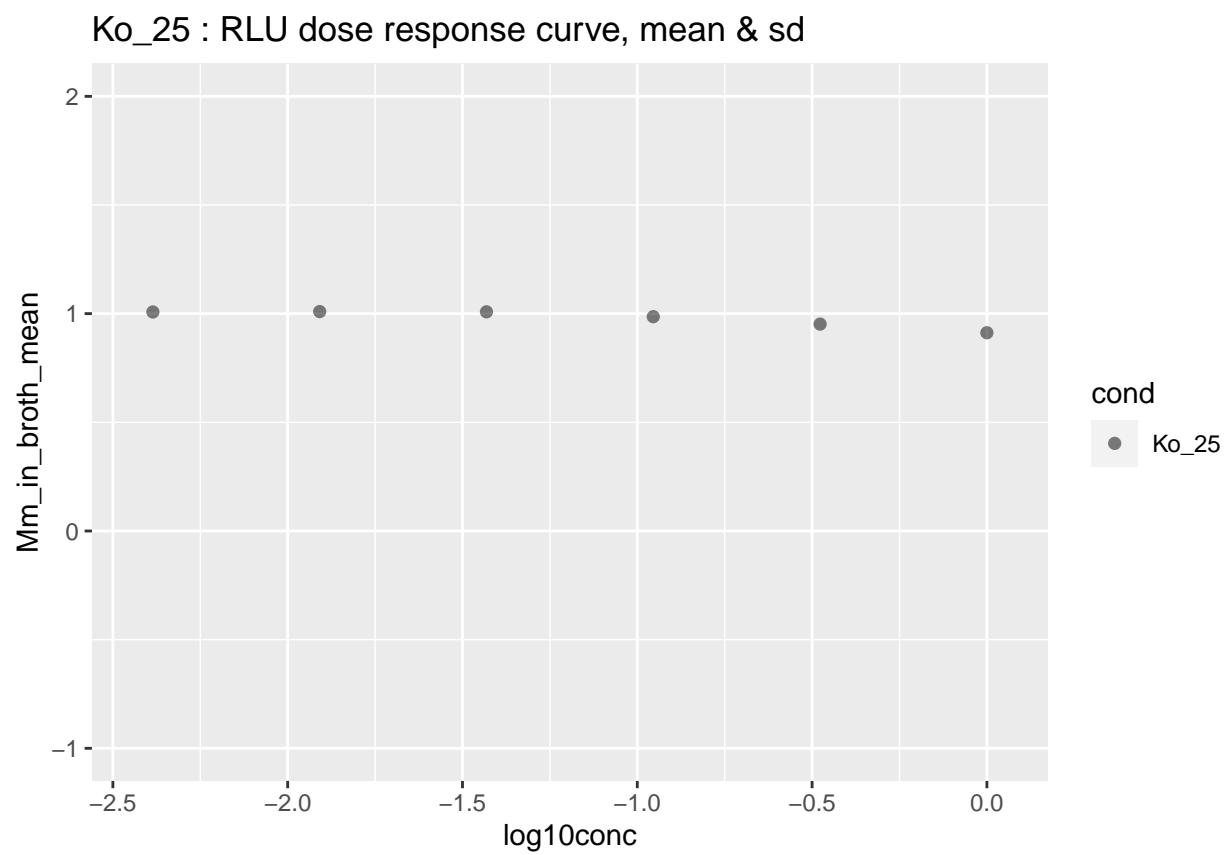
Ko_21 : RLU dose response curve, median & mad



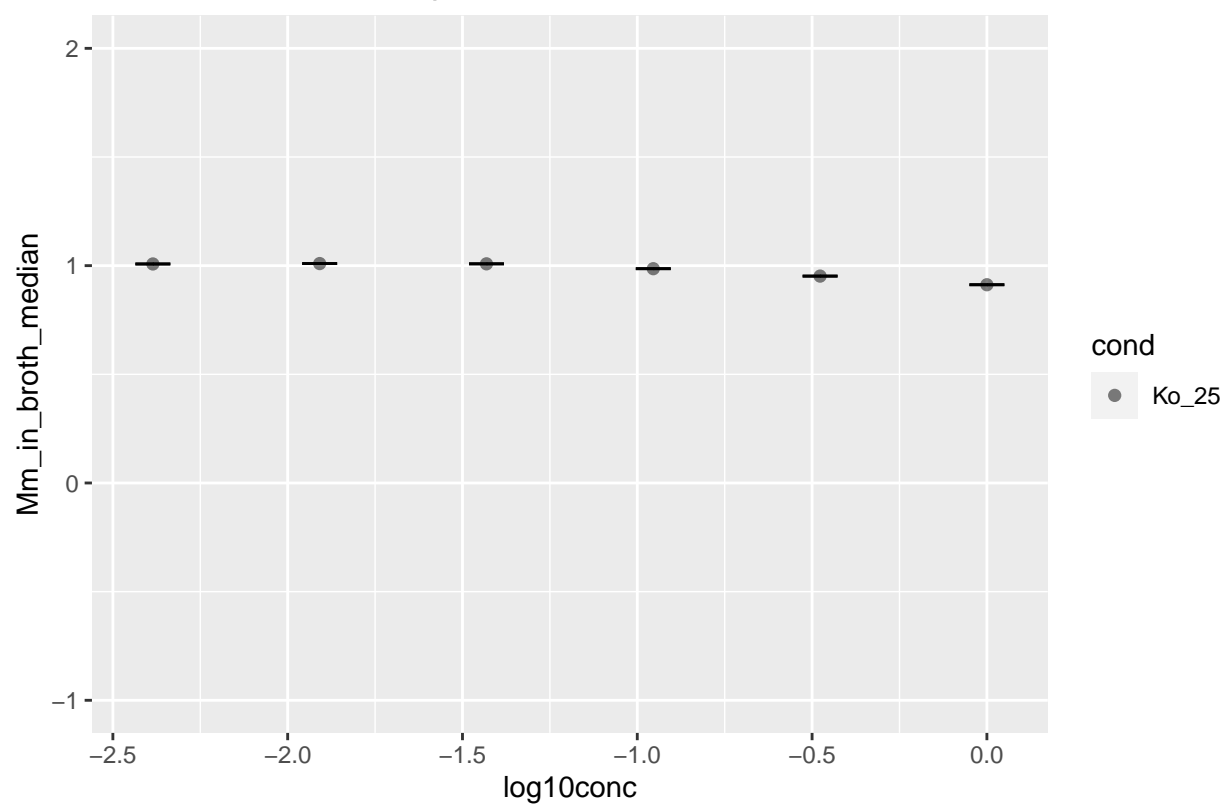


Ko_22 : RLU dose response curve, median & mad

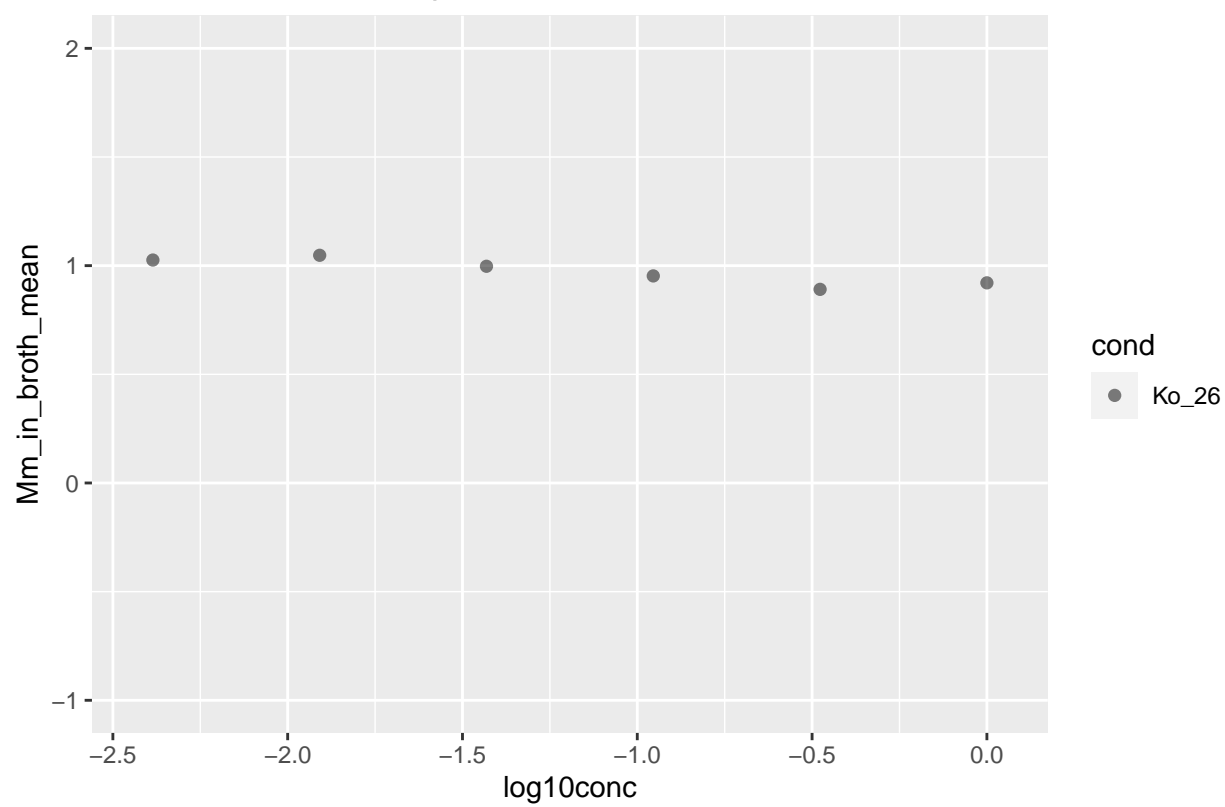




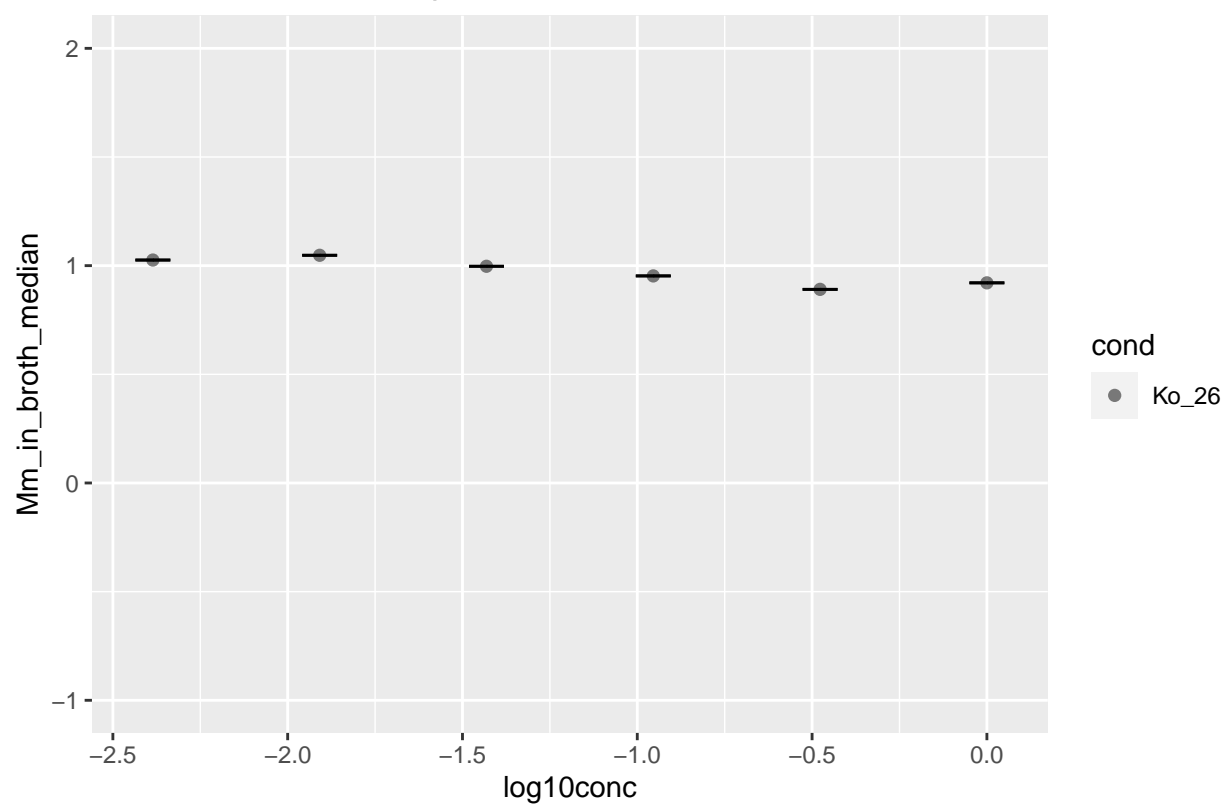
Ko_25 : RLU dose response curve, median & mad



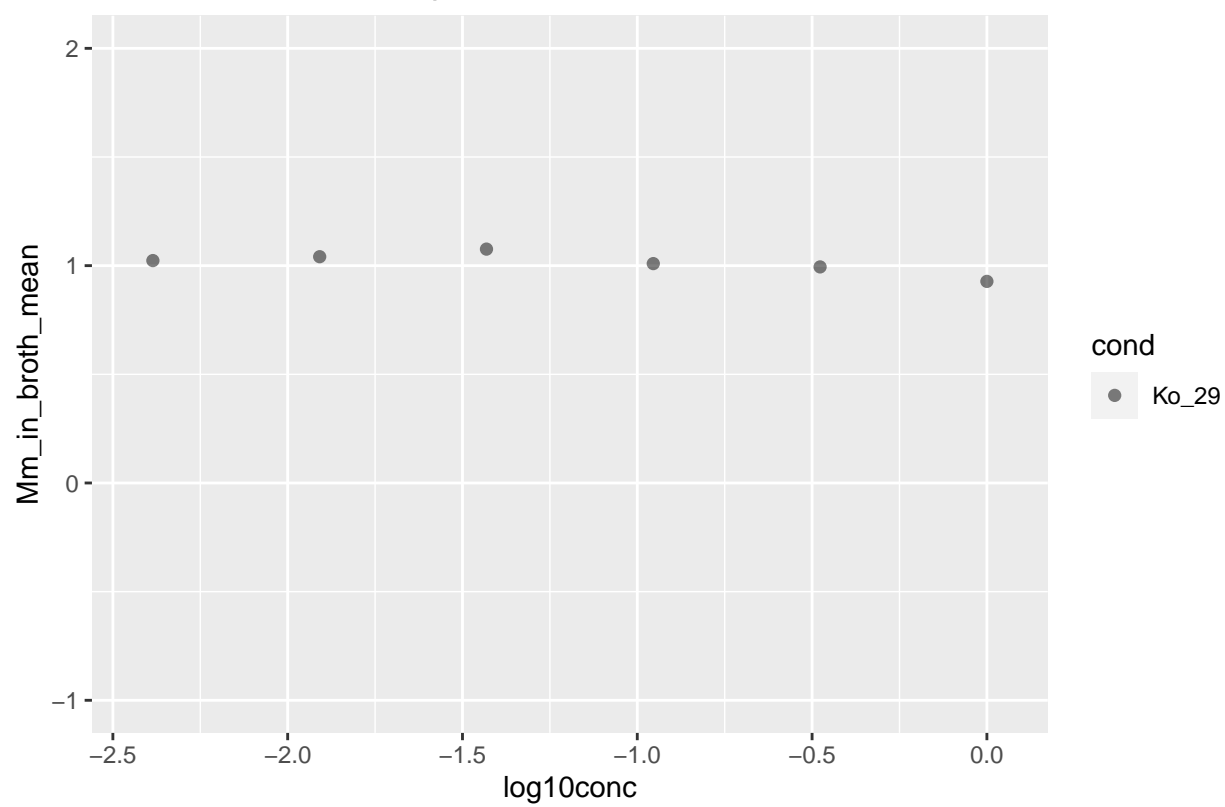
Ko_26 : RLU dose response curve, mean & sd



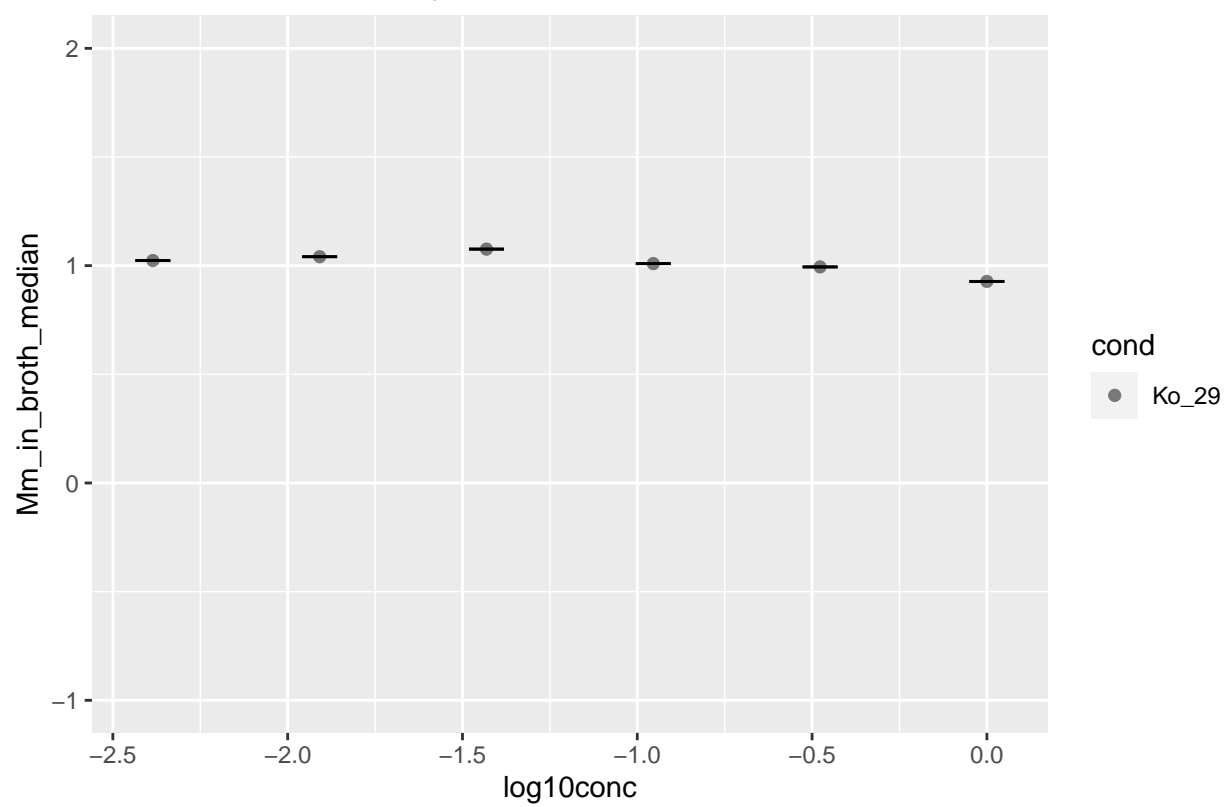
Ko_26 : RLU dose response curve, median & mad

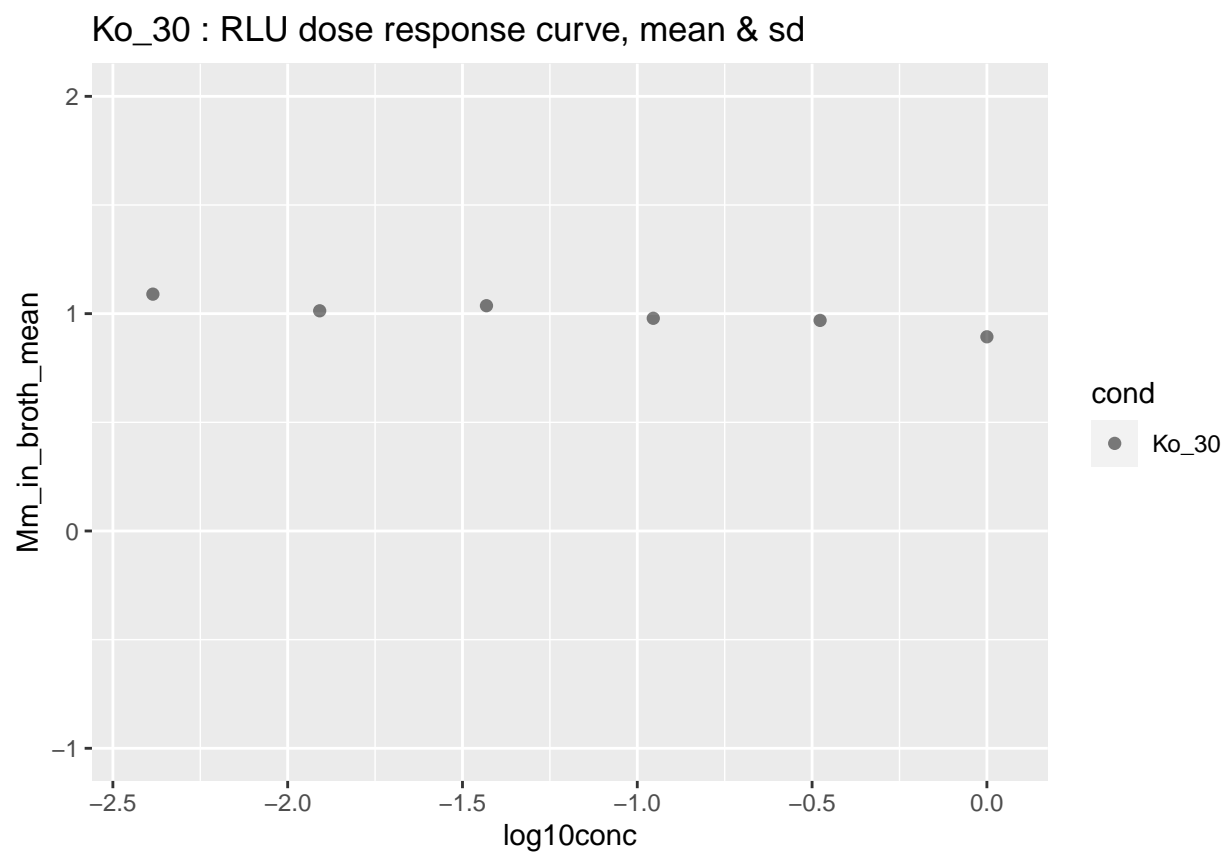


Ko_29 : RLU dose response curve, mean & sd

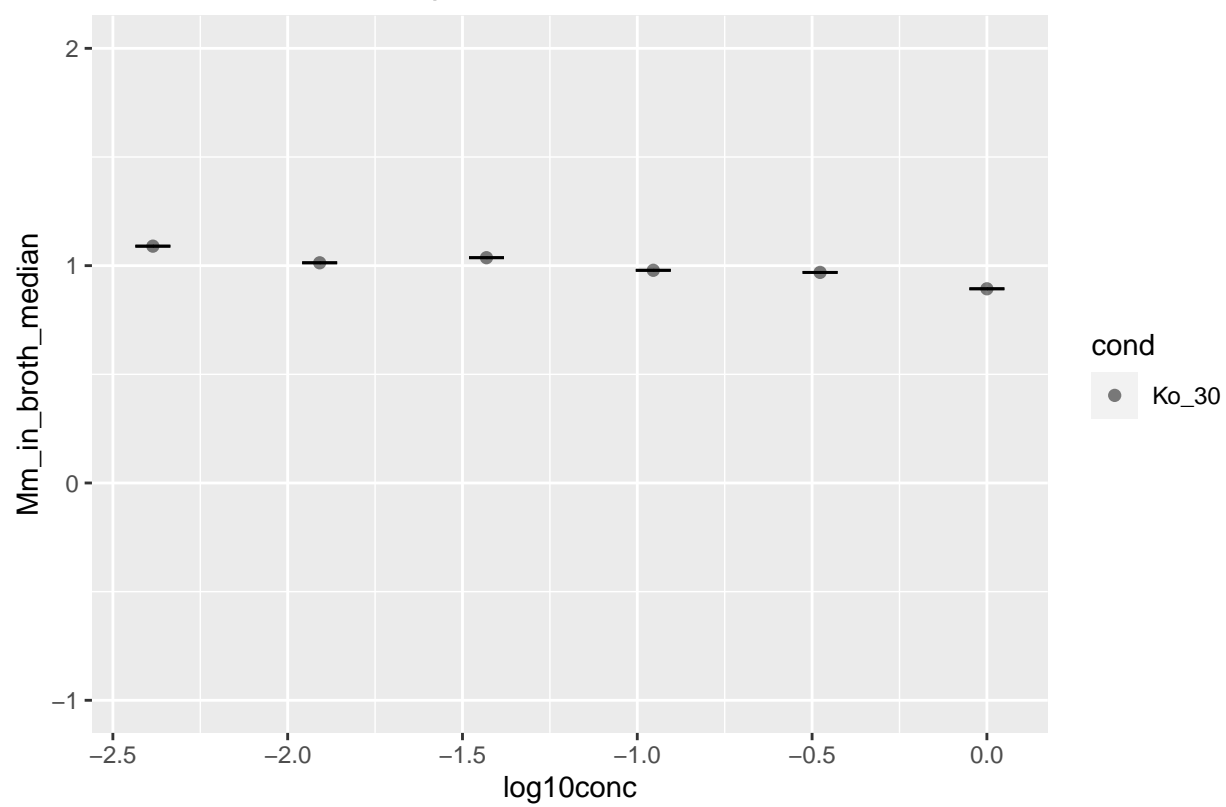


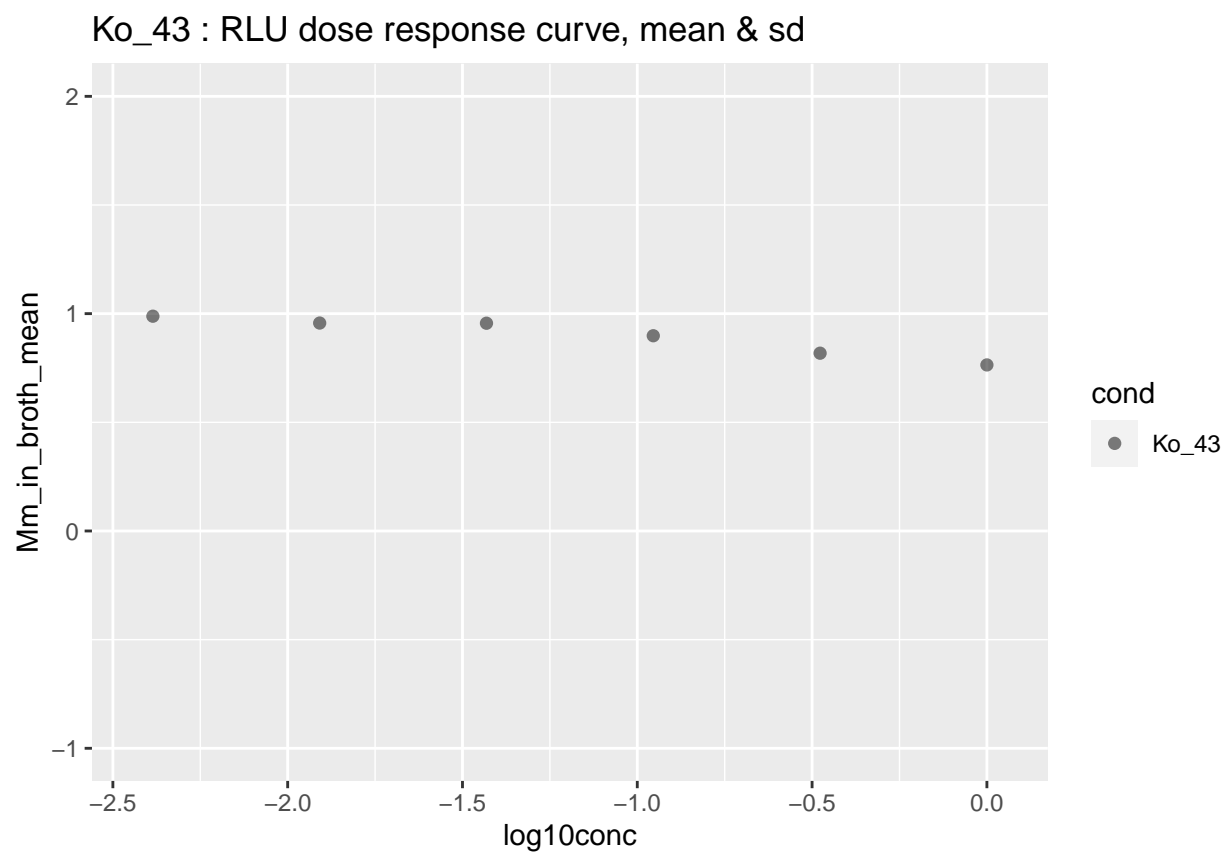
Ko_29 : RLU dose response curve, median & mad

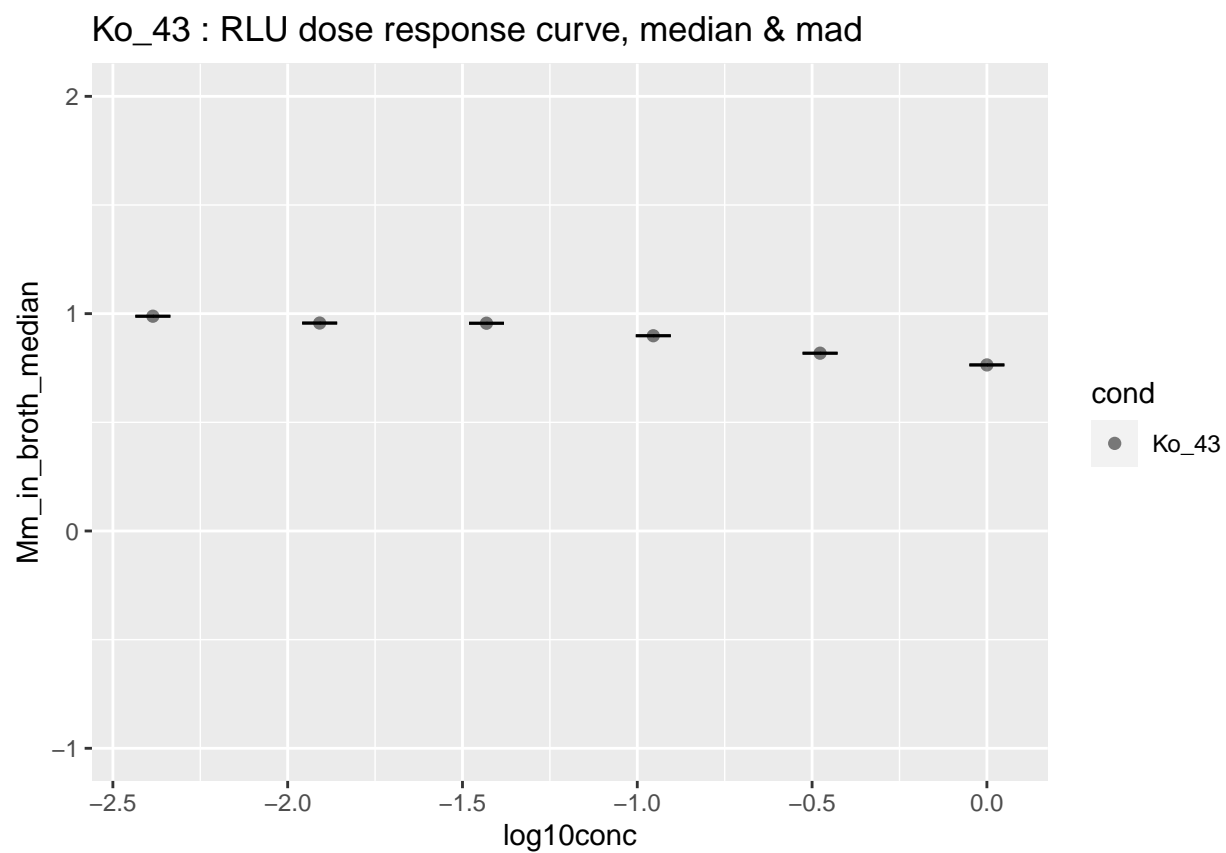


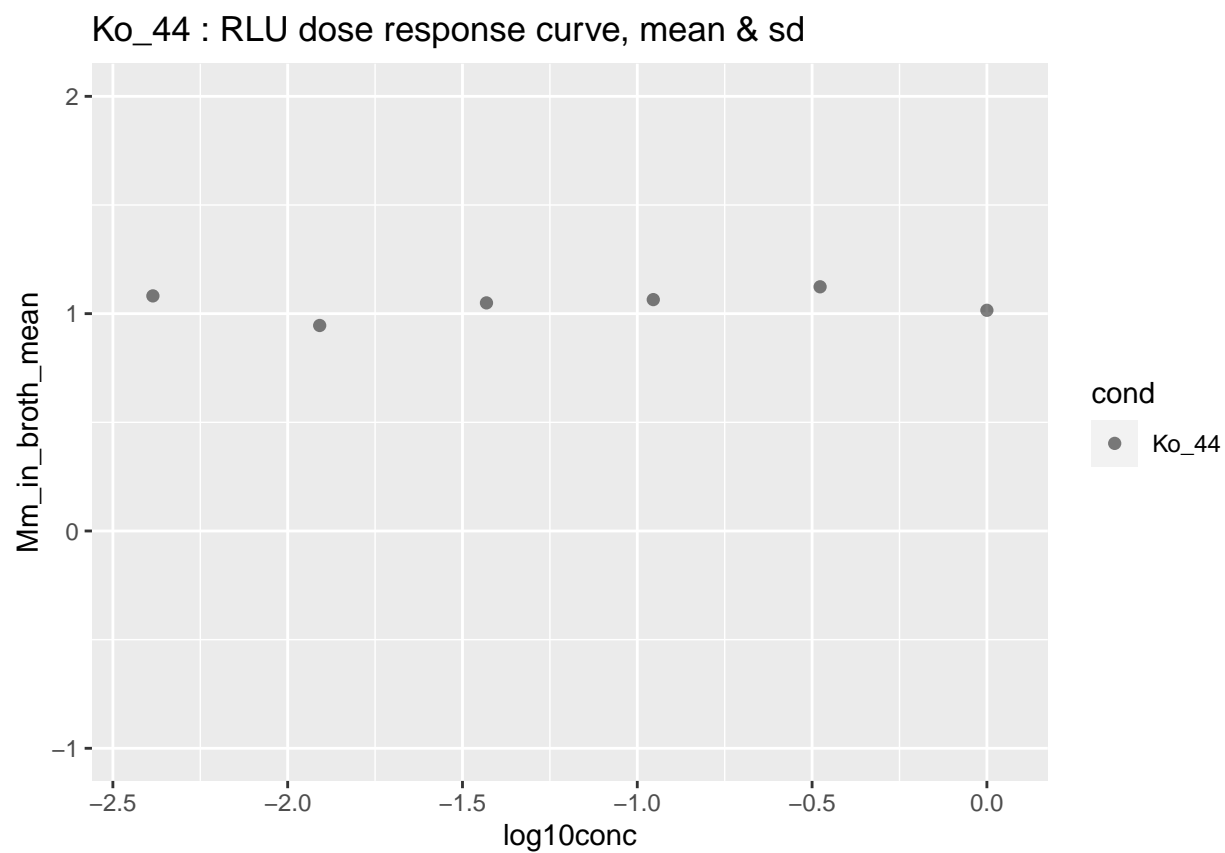


Ko_30 : RLU dose response curve, median & mad

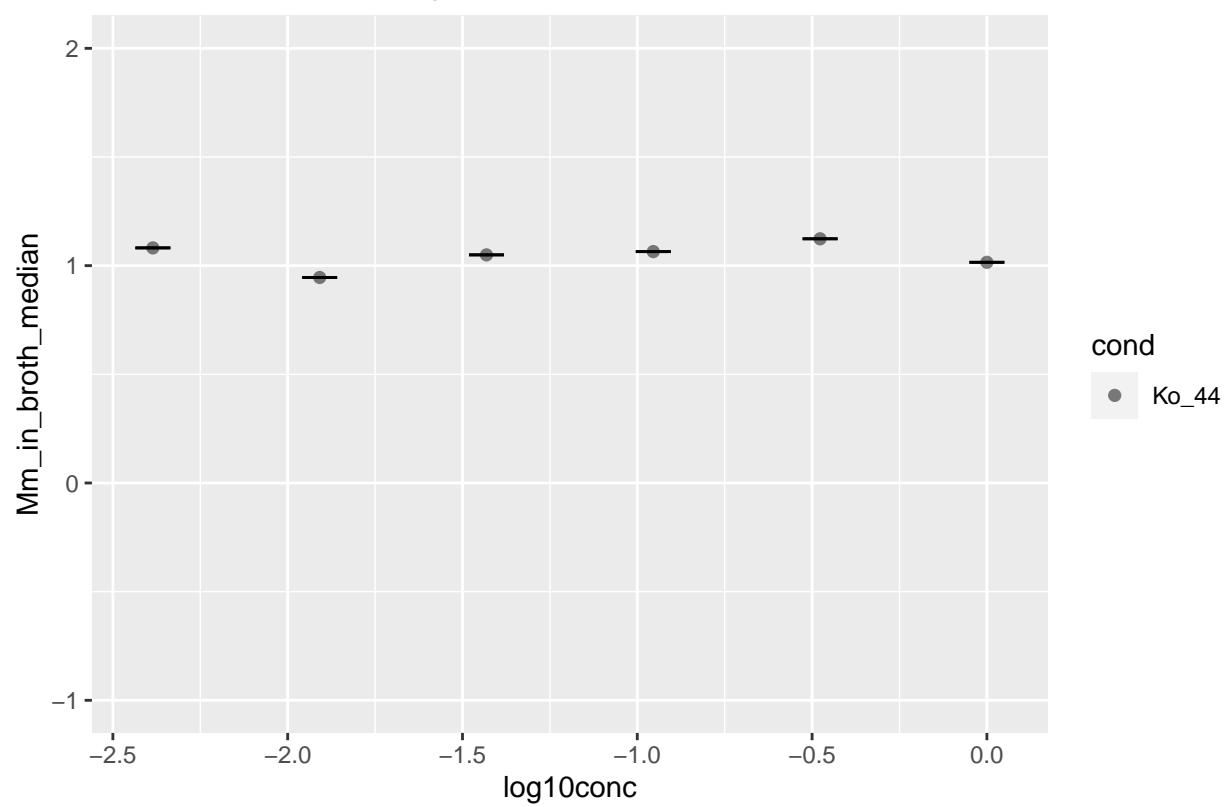


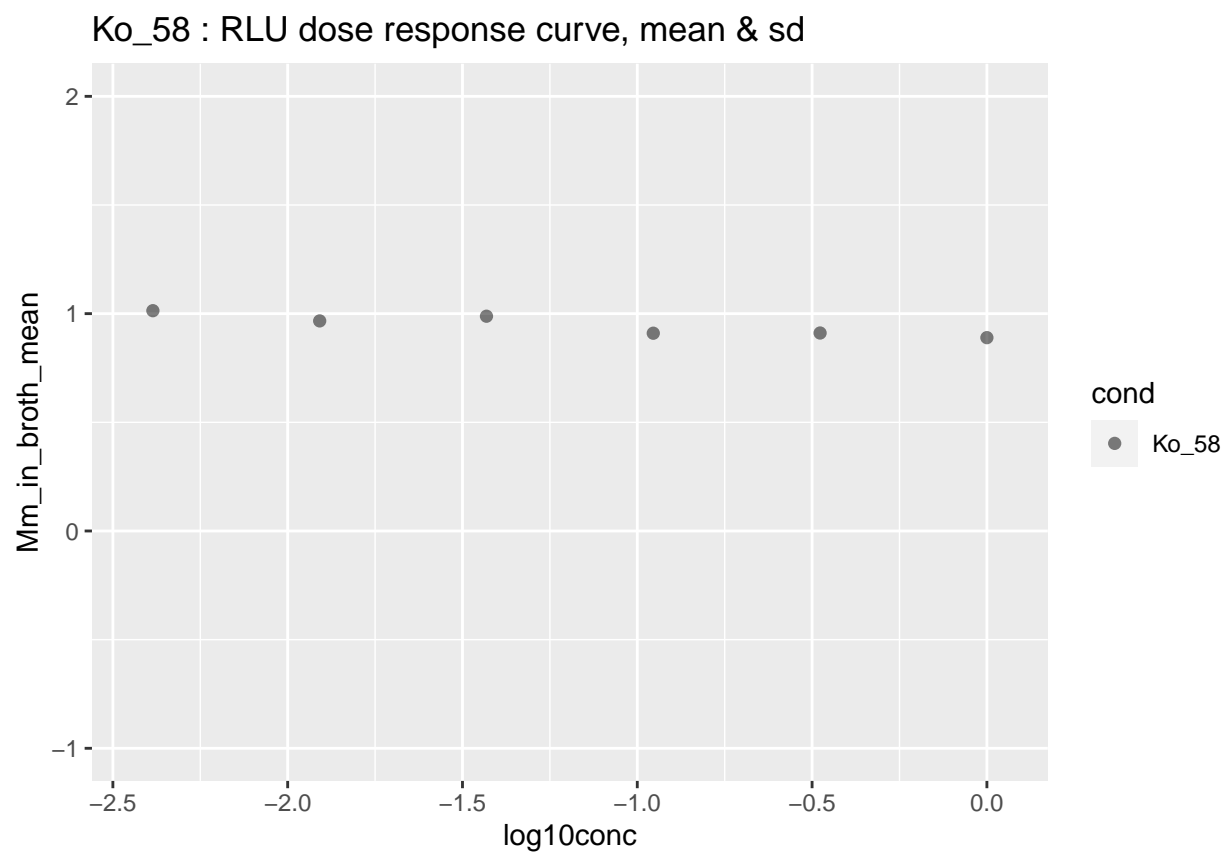




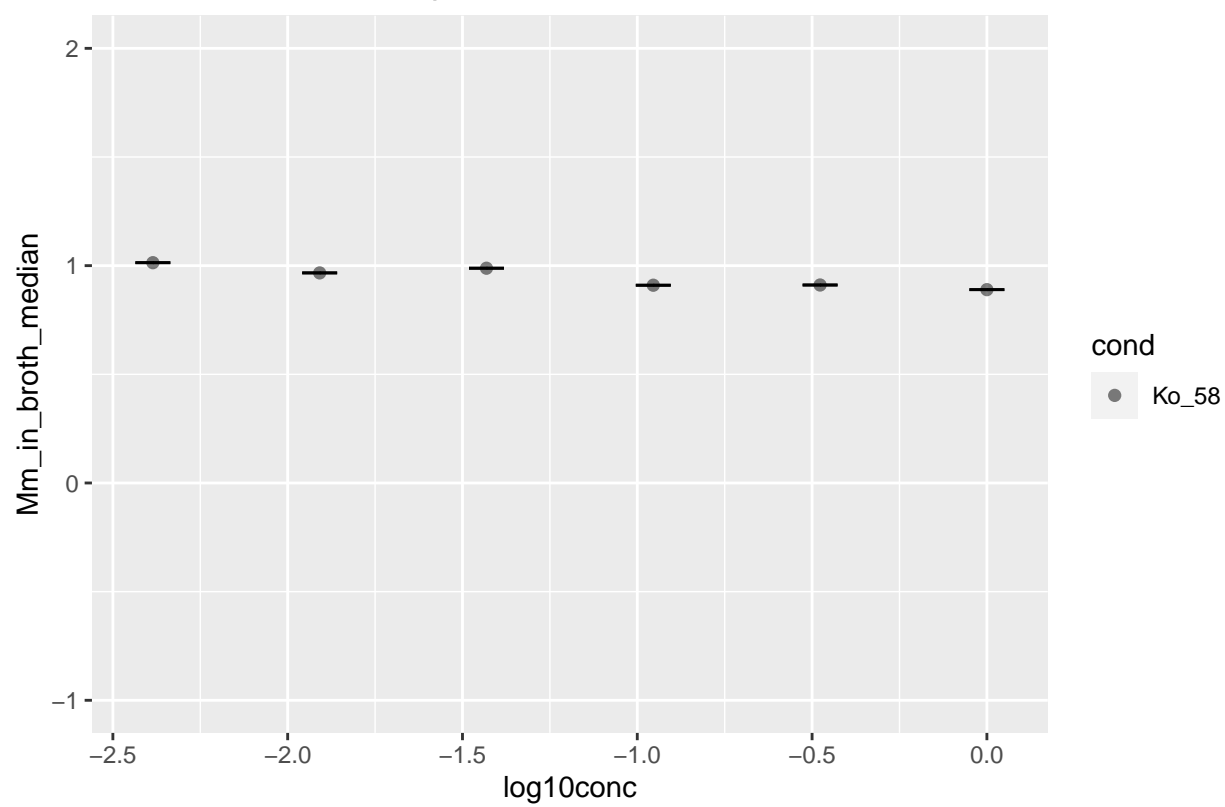


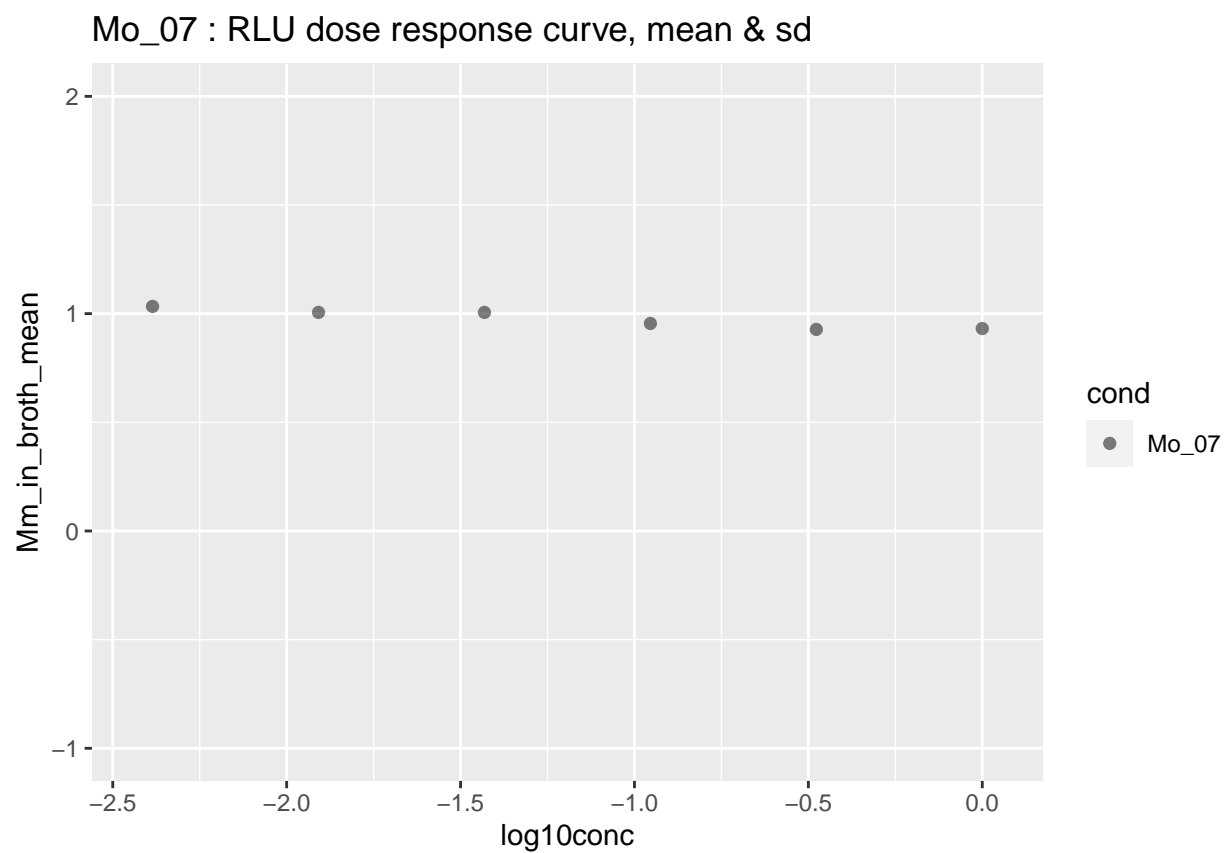
Ko_44 : RLU dose response curve, median & mad

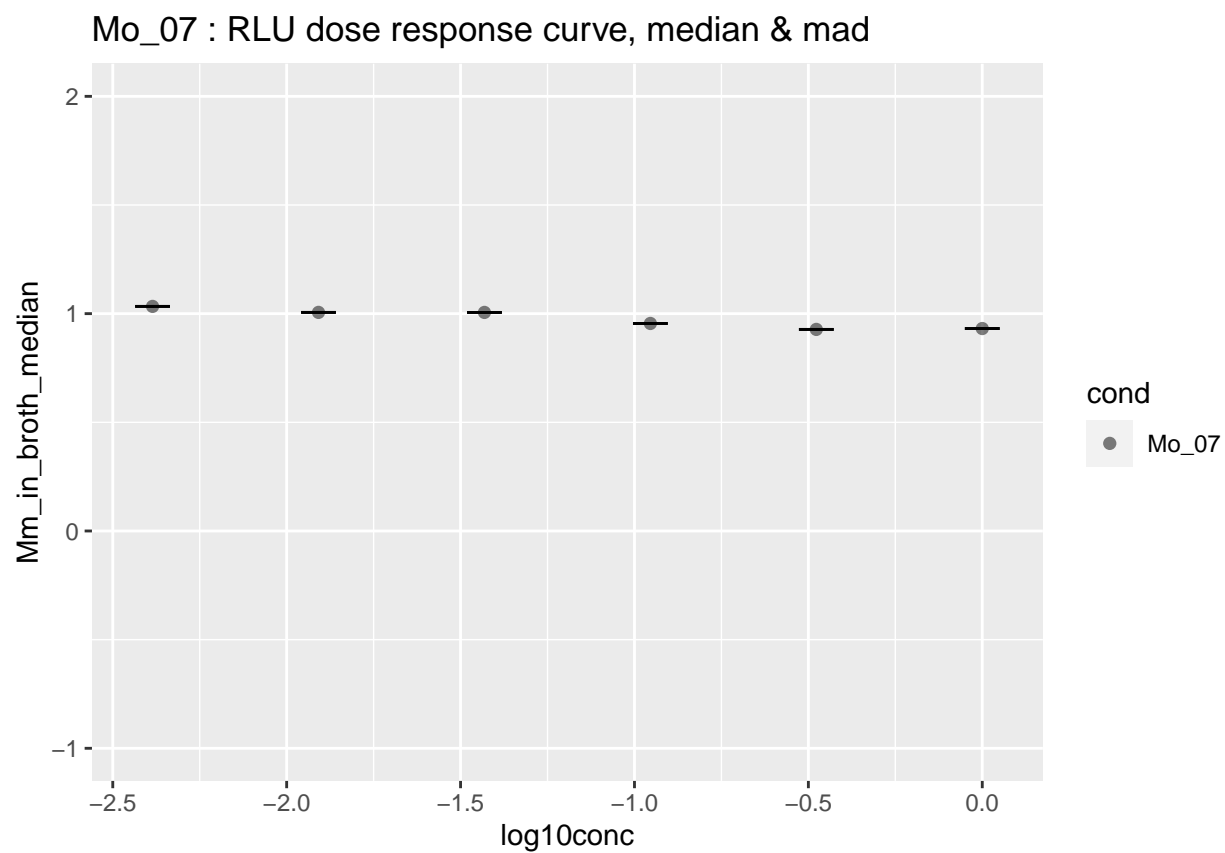


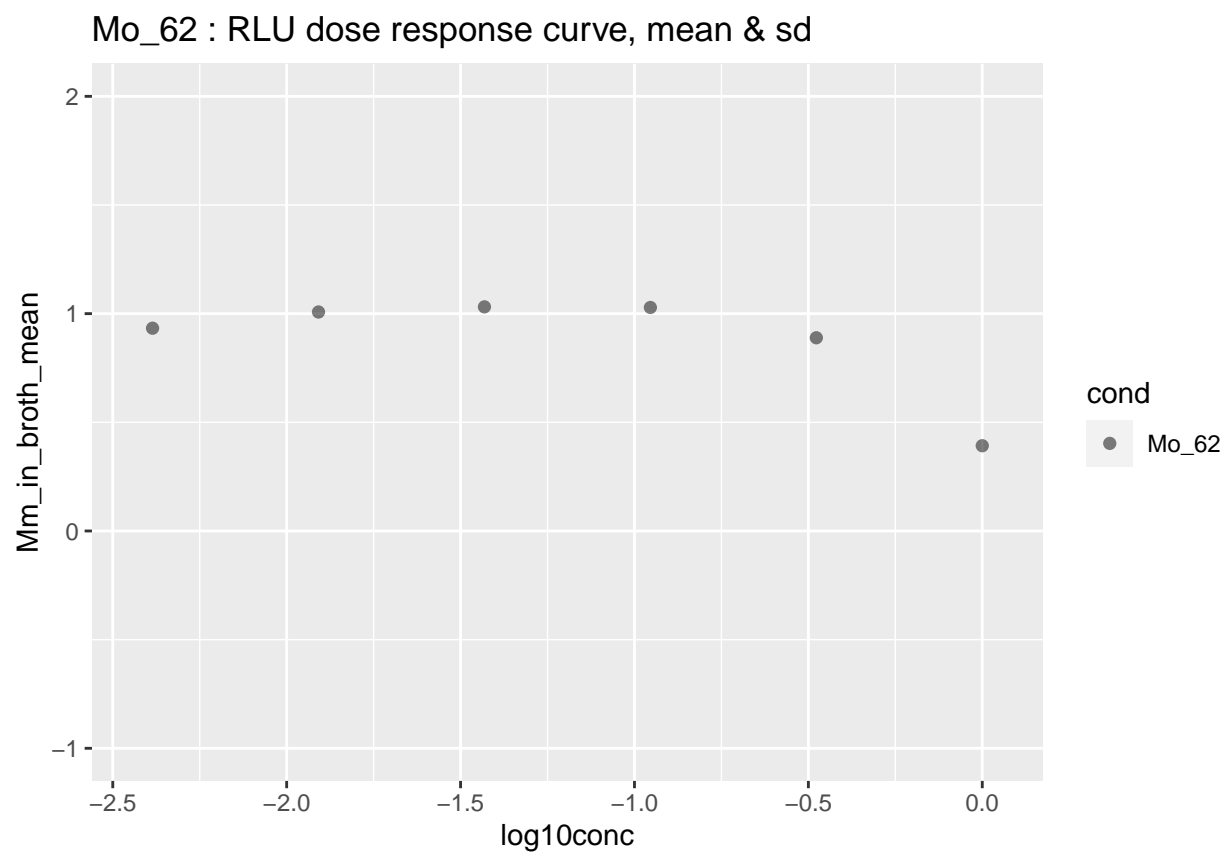


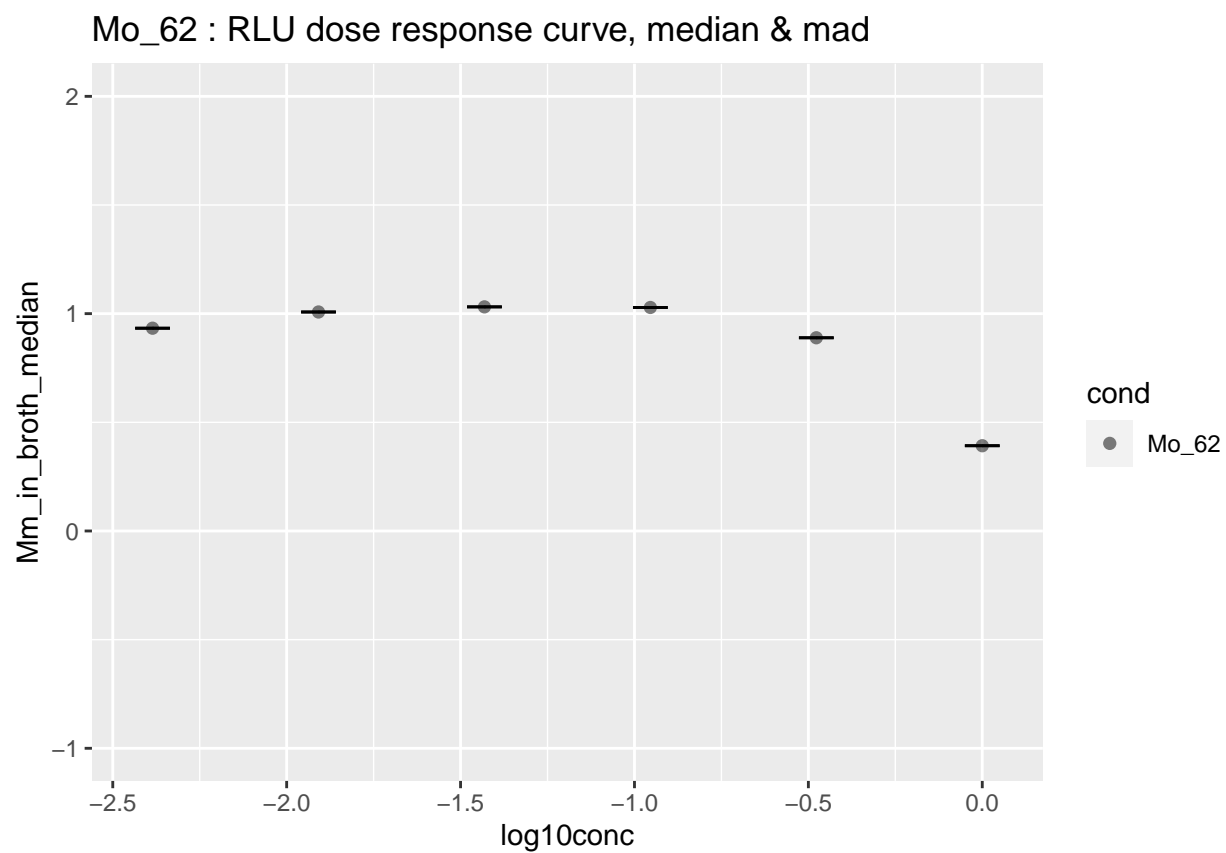
Ko_58 : RLU dose response curve, median & mad

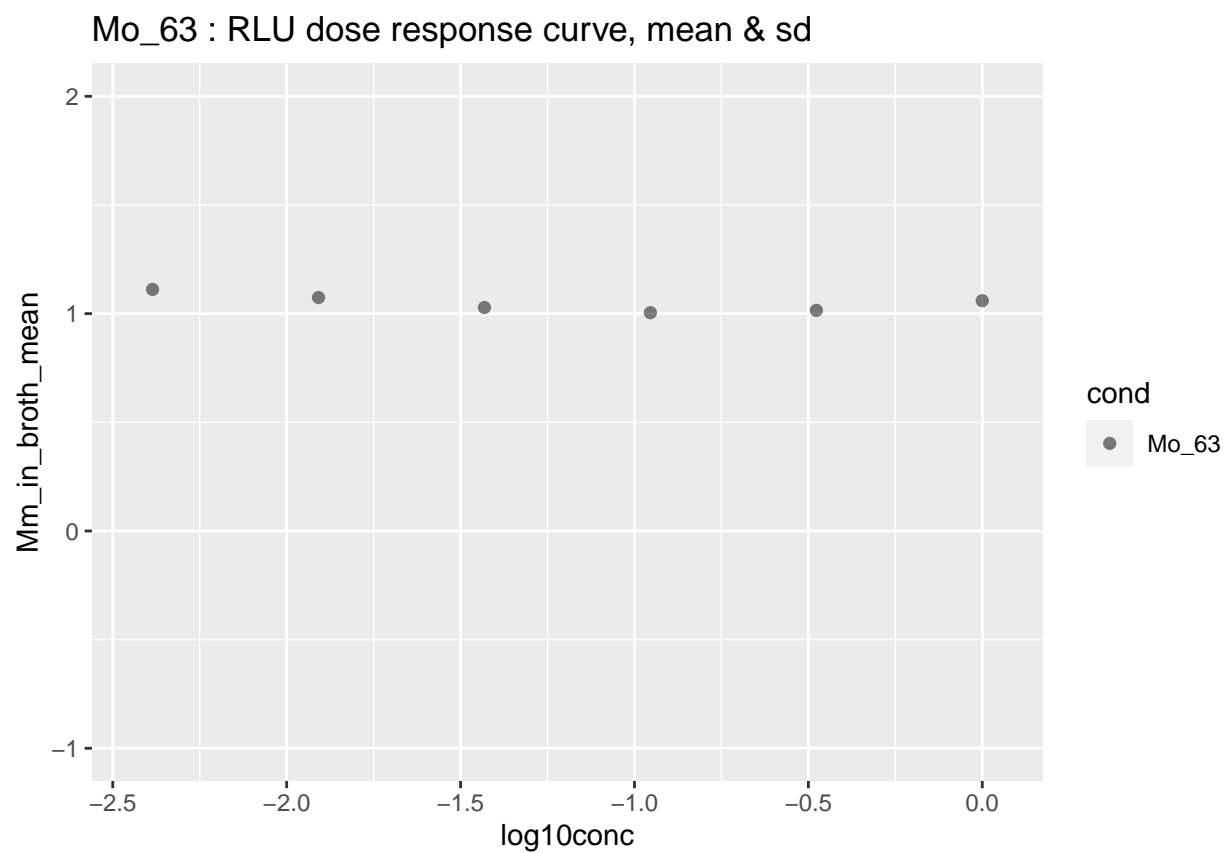


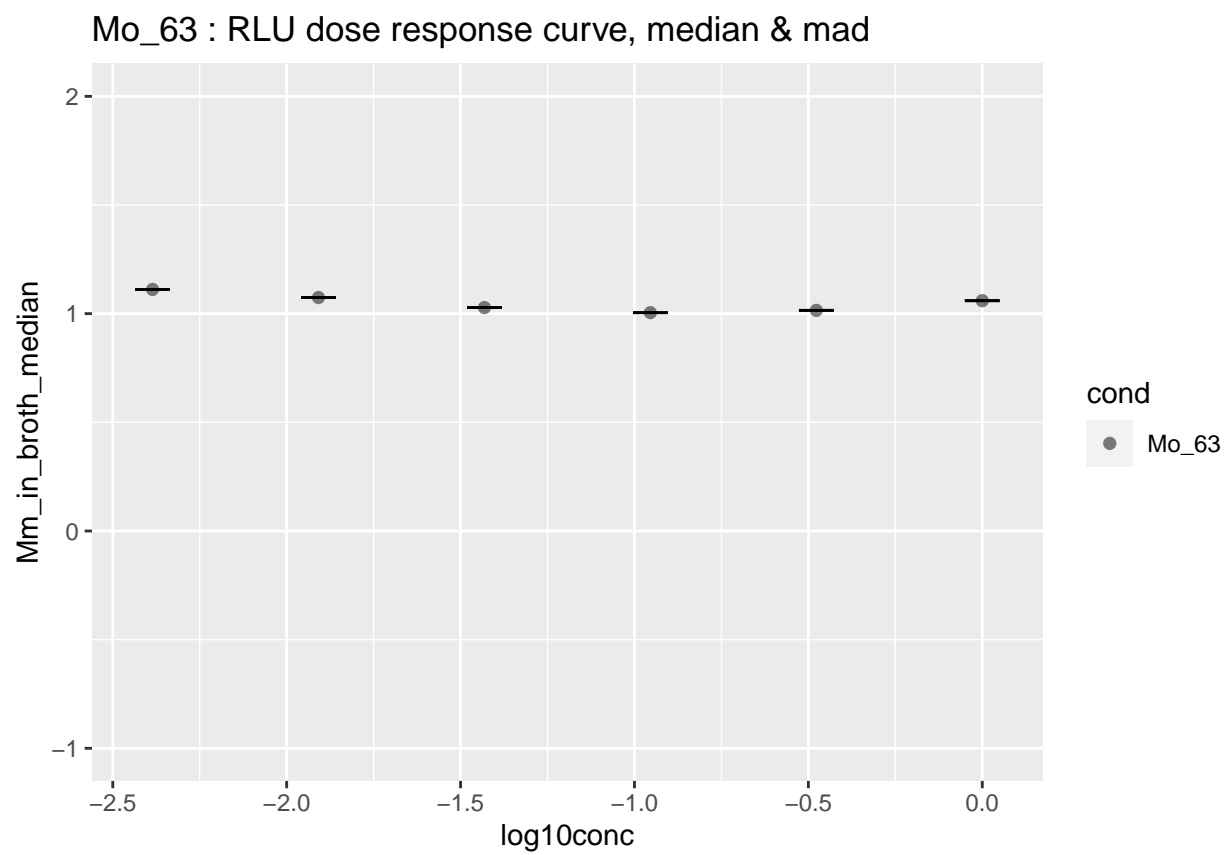


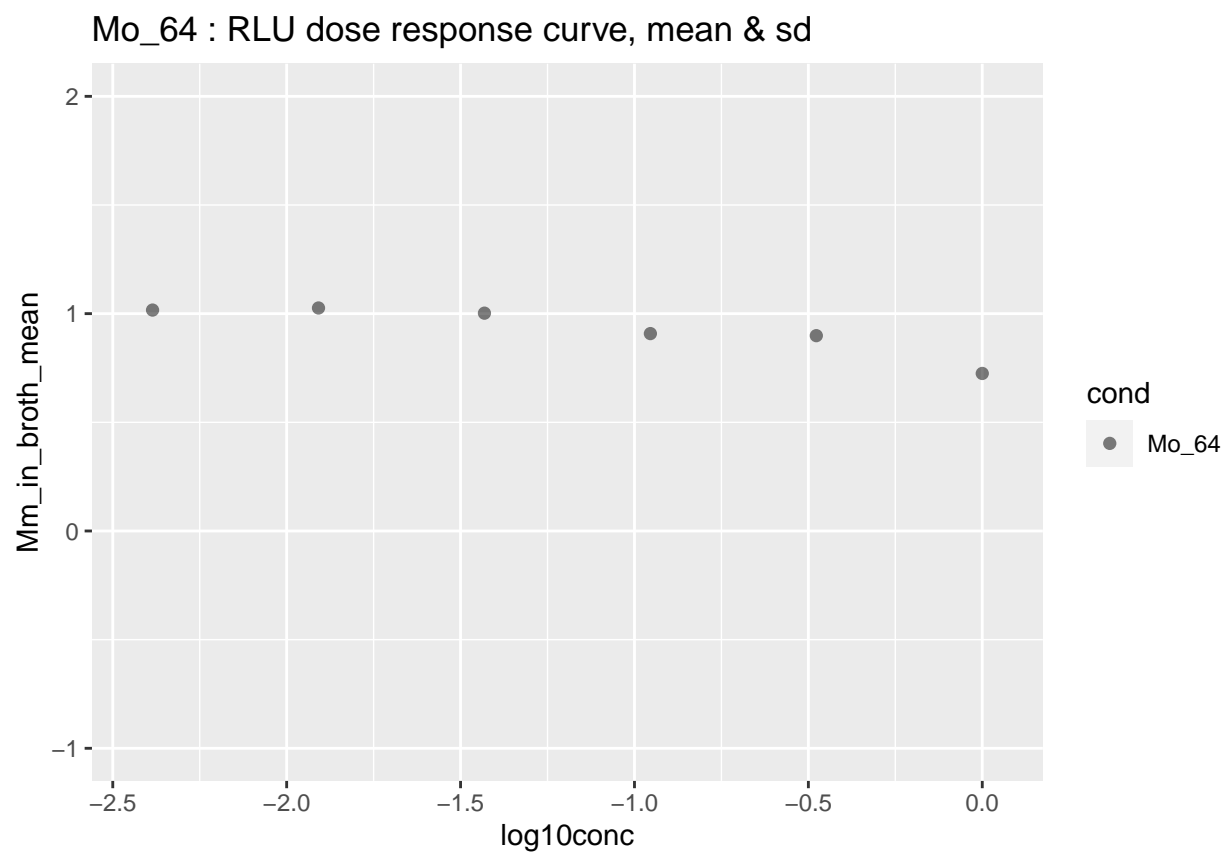


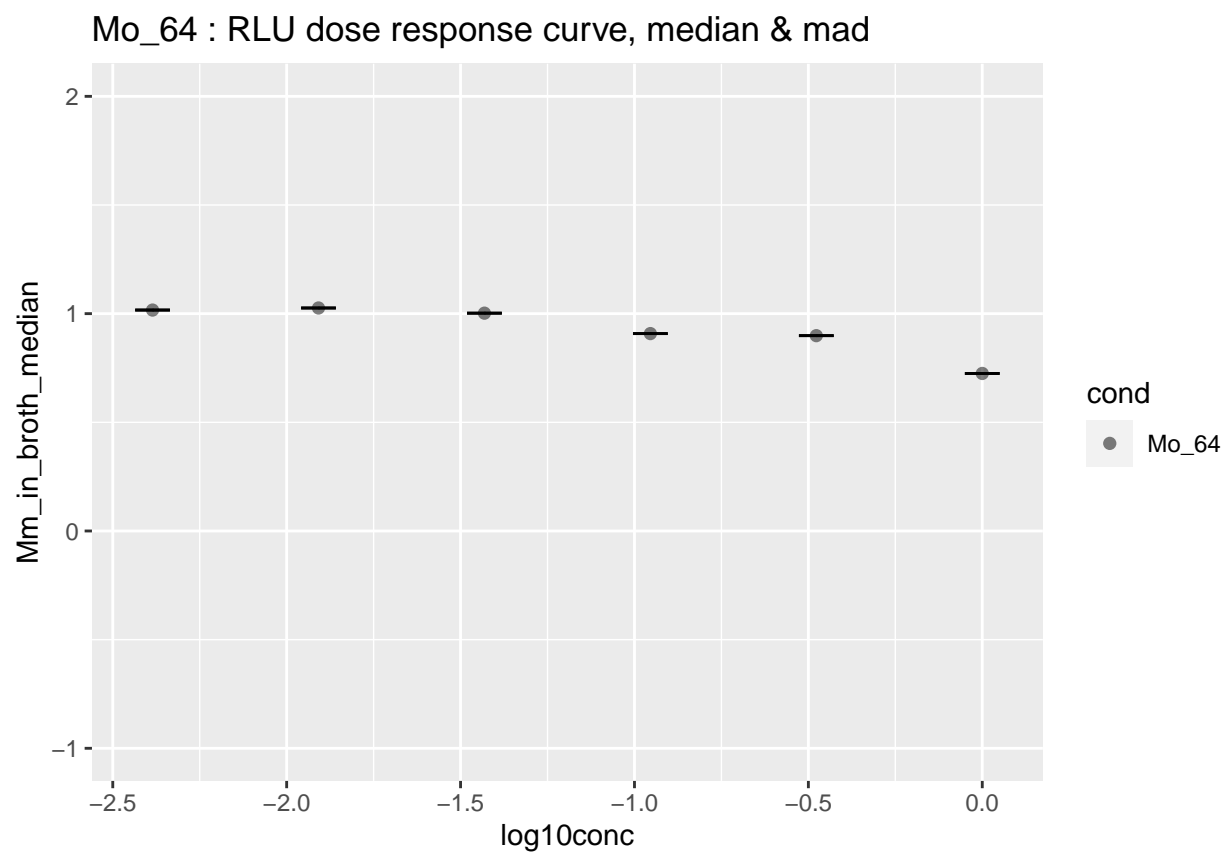


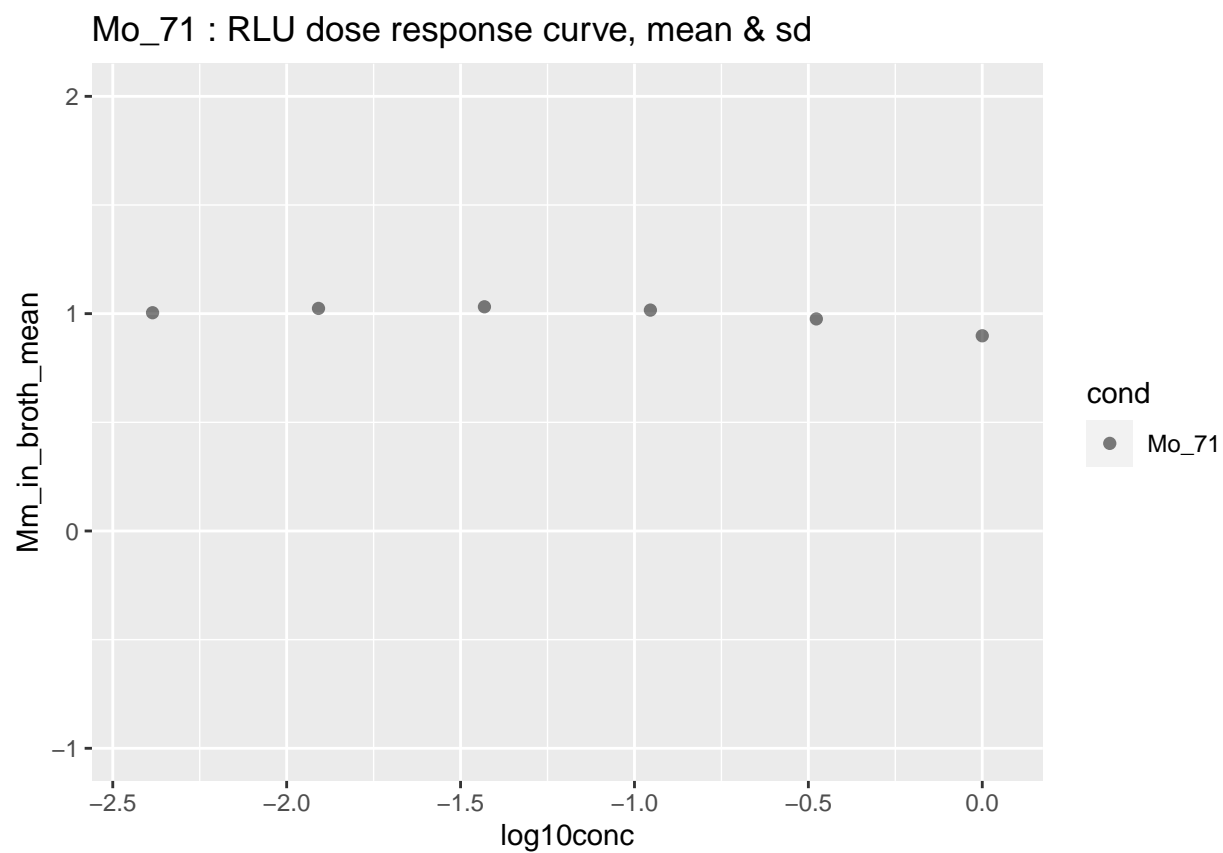


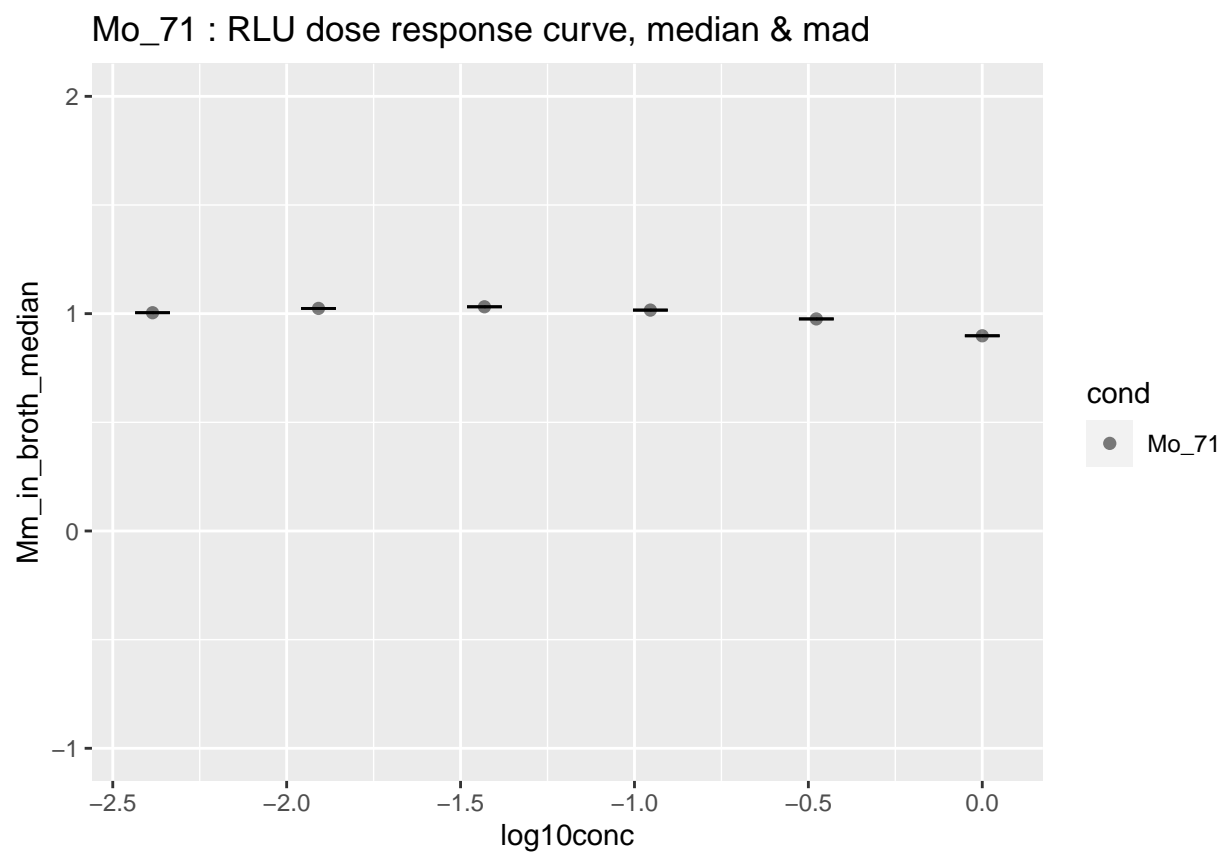


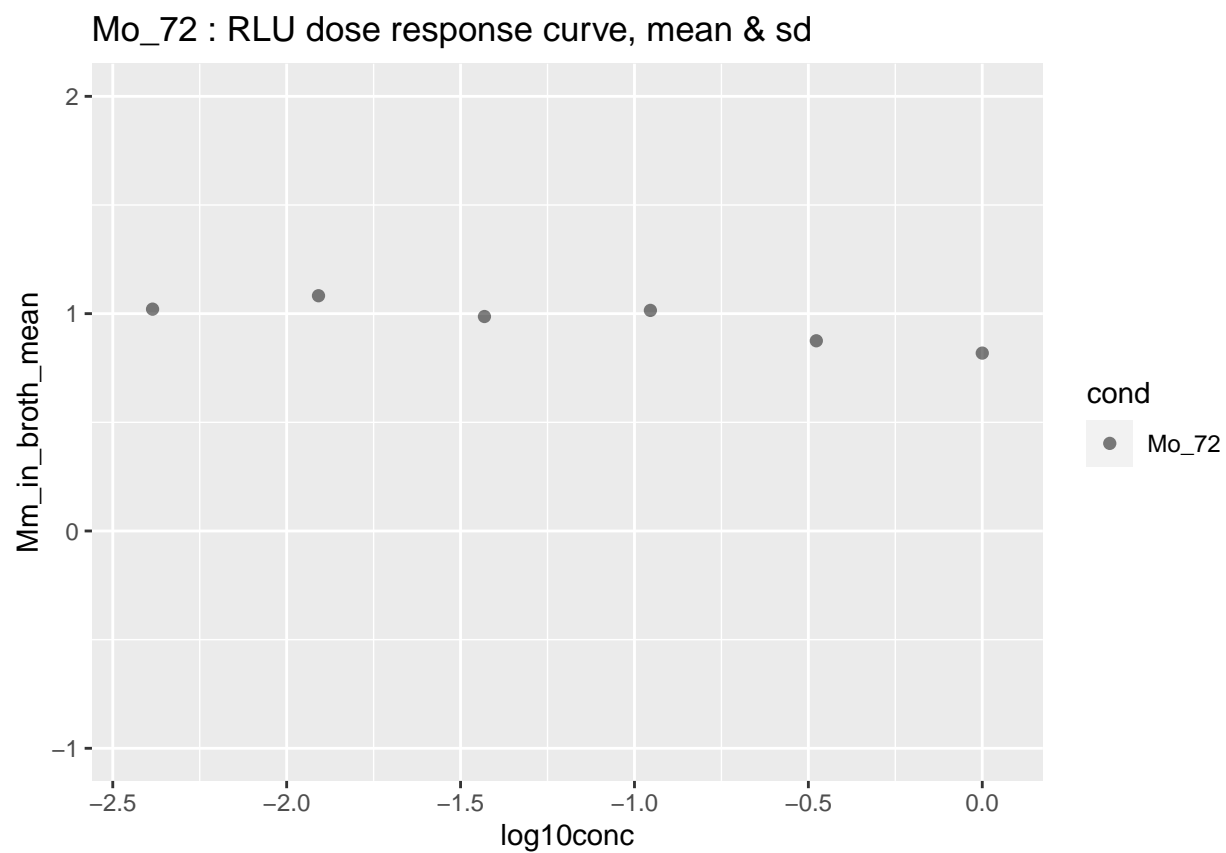




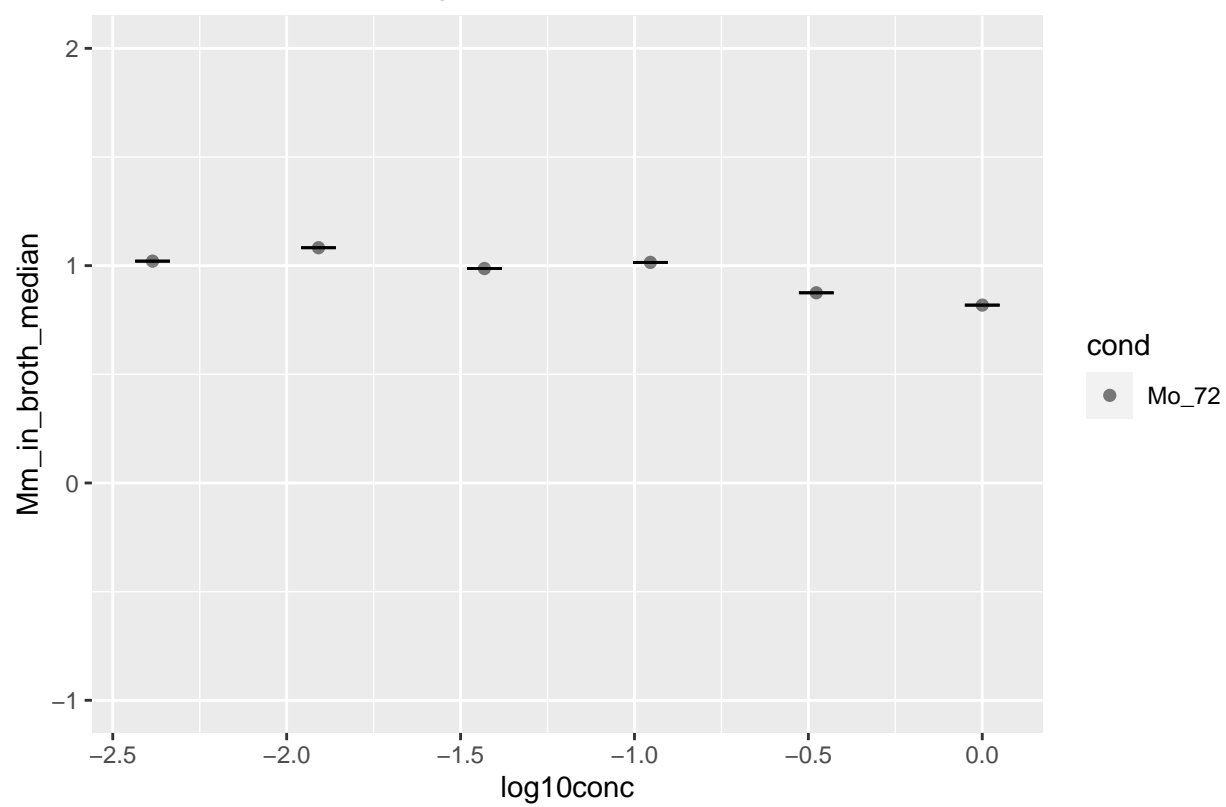


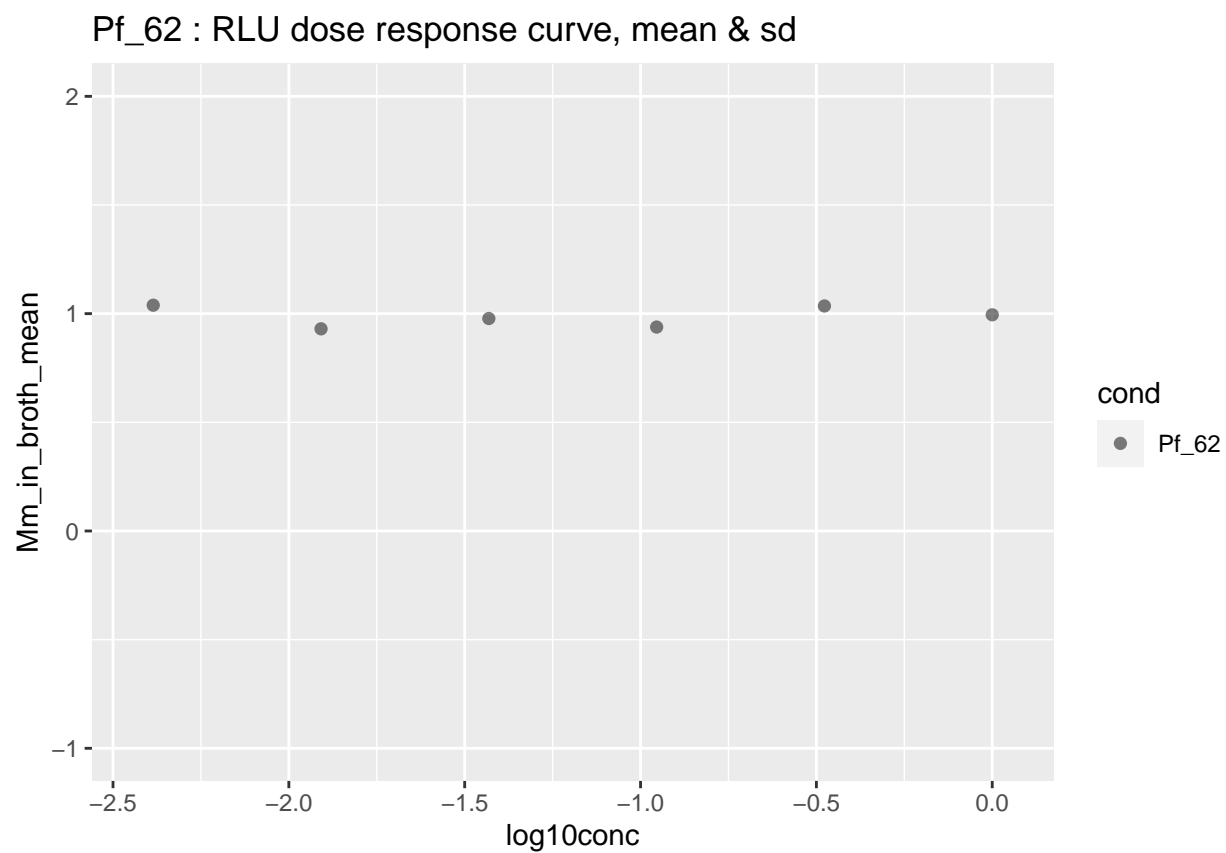




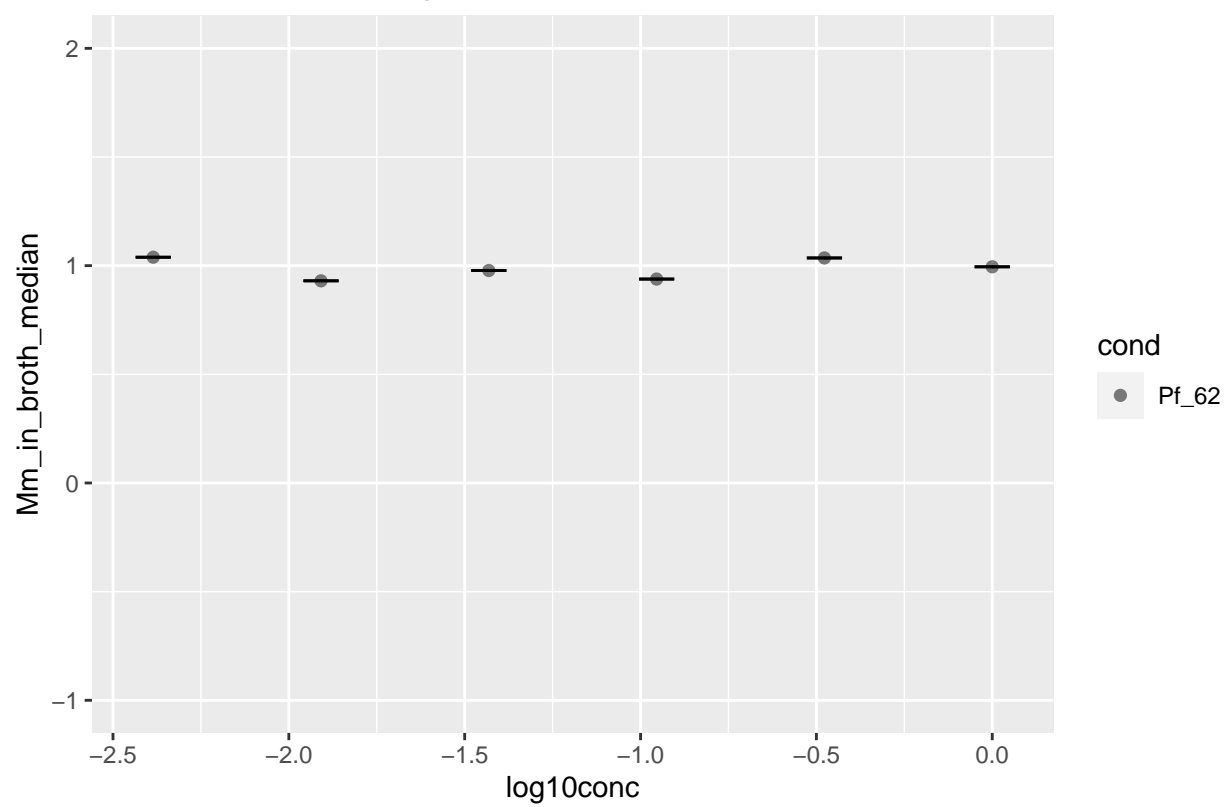


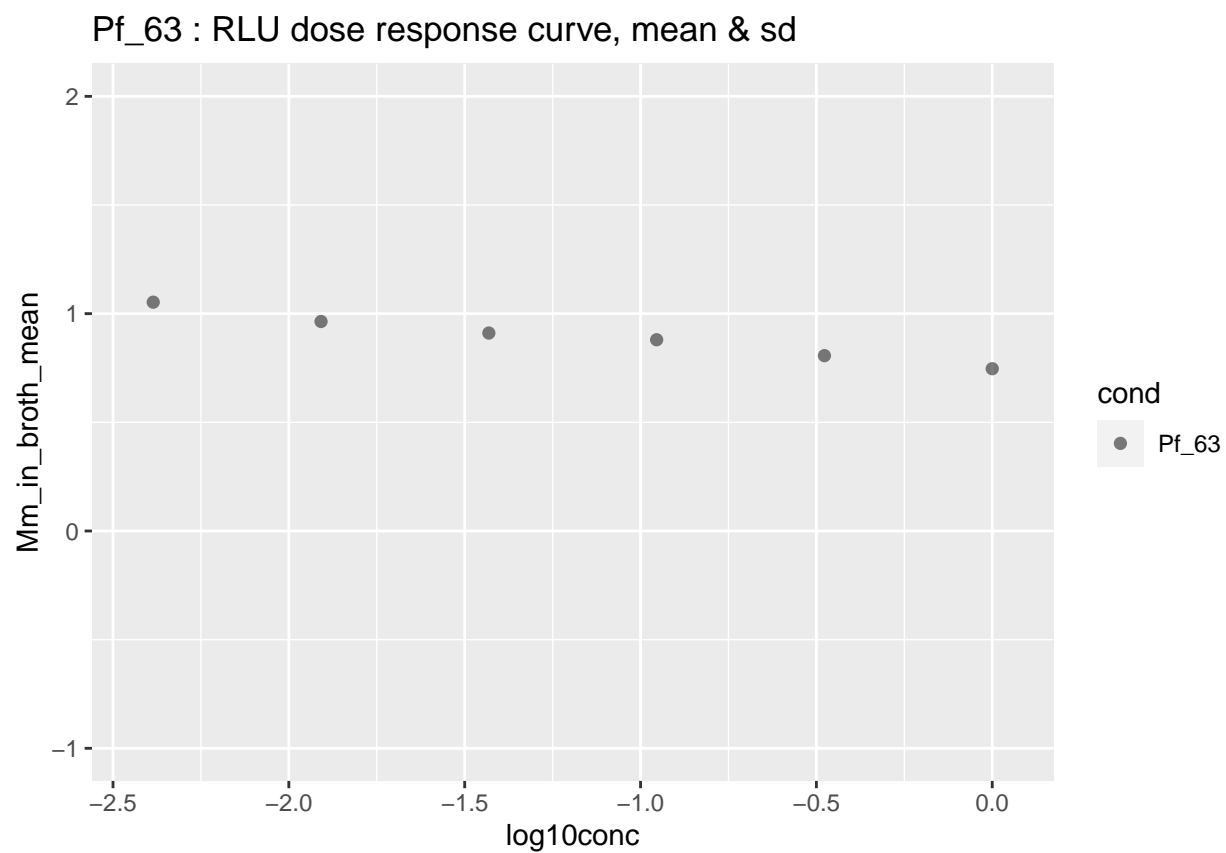
Mo_72 : RLU dose response curve, median & mad

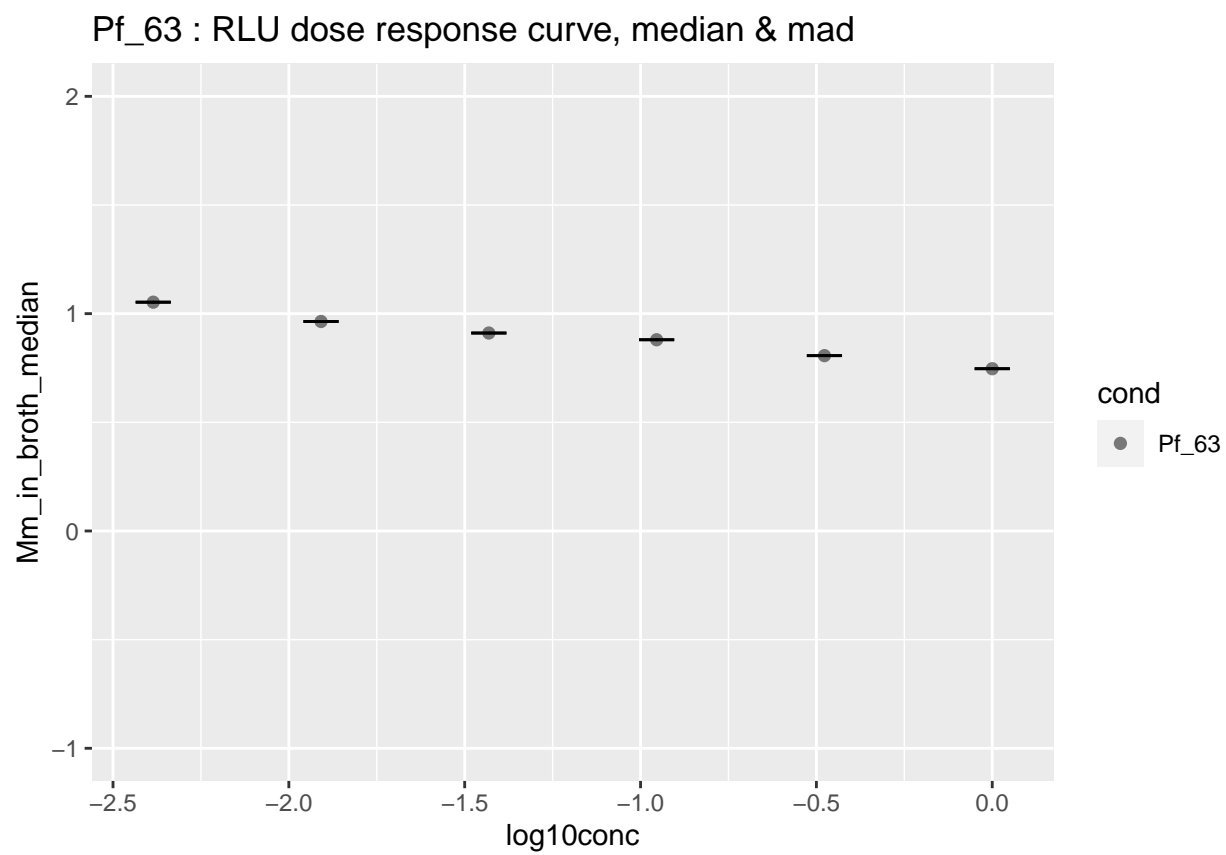


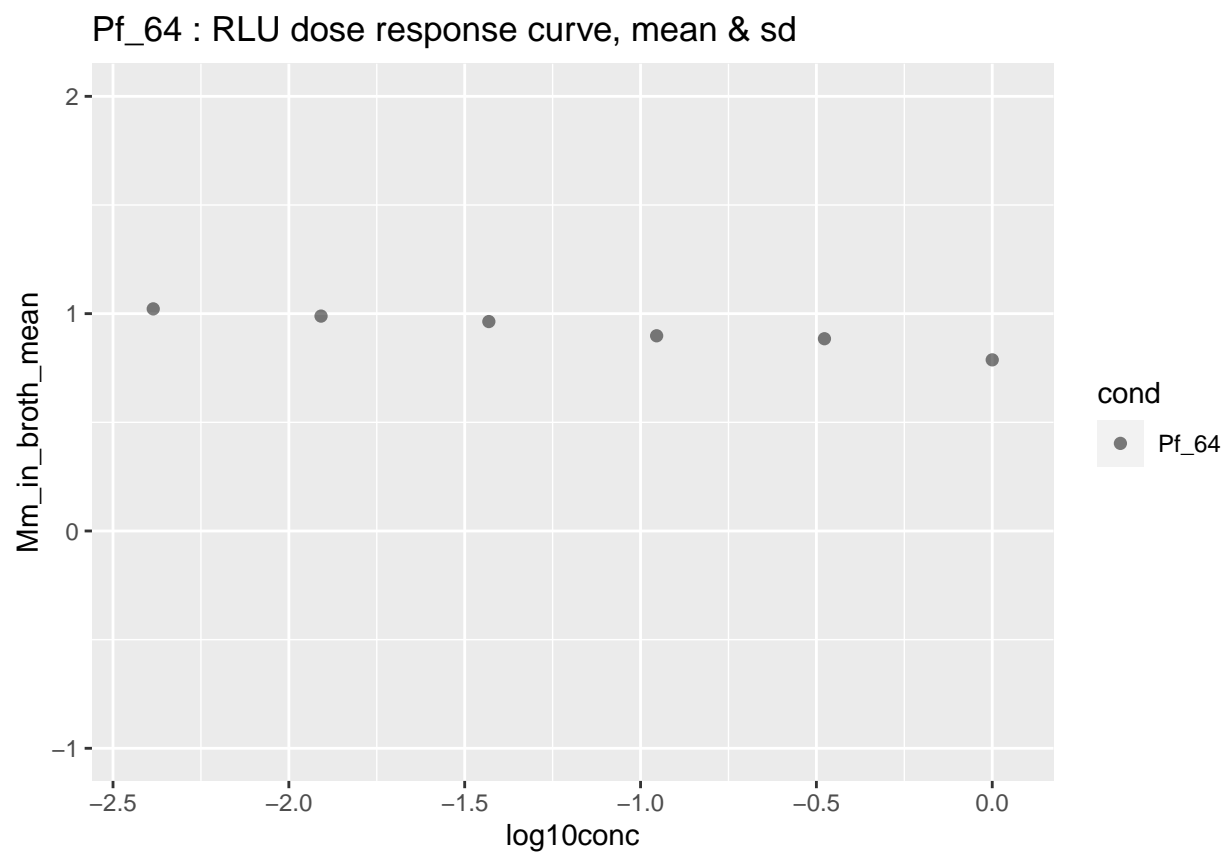


Pf_62 : RLU dose response curve, median & mad

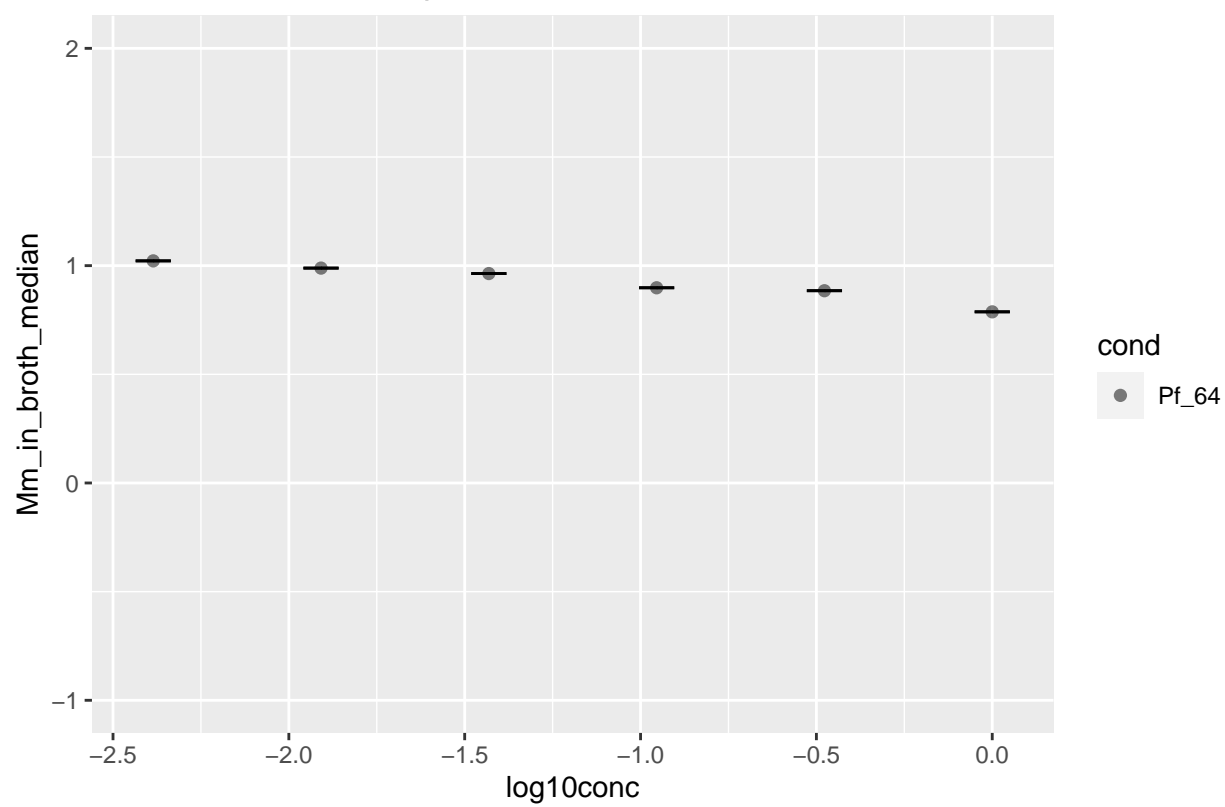




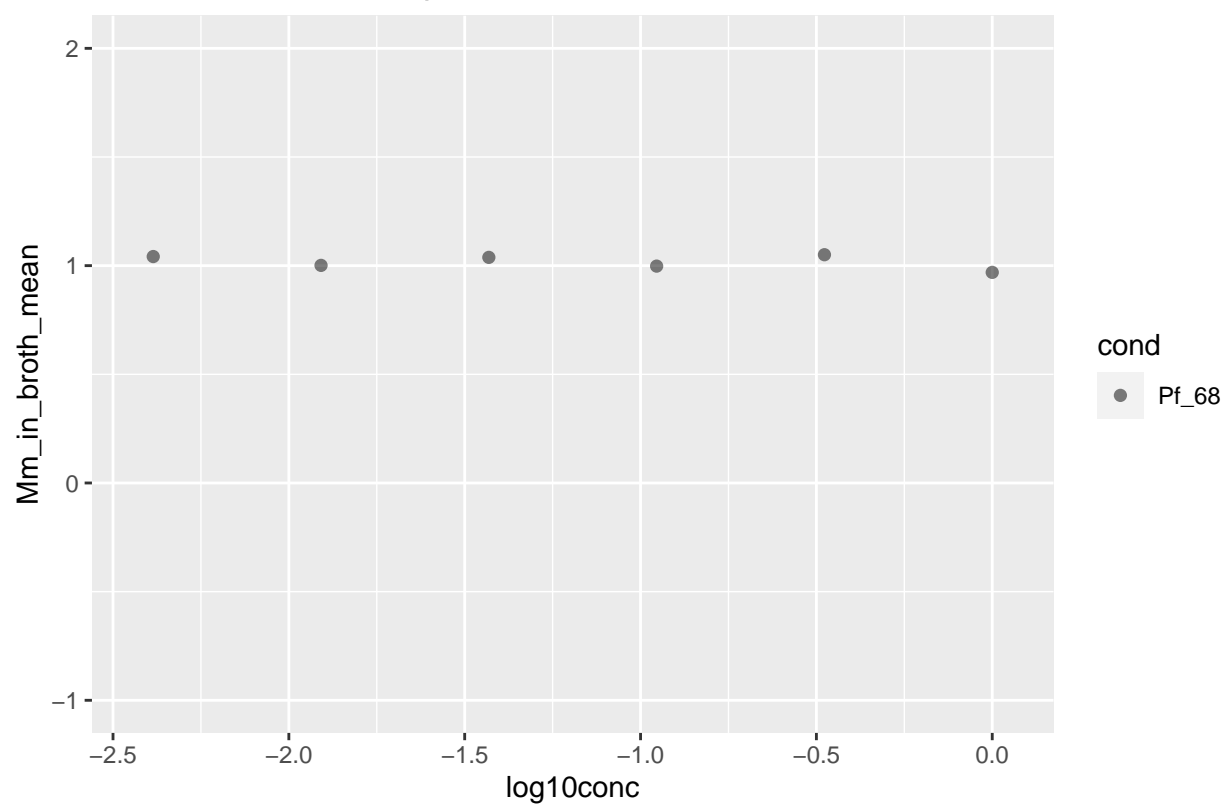




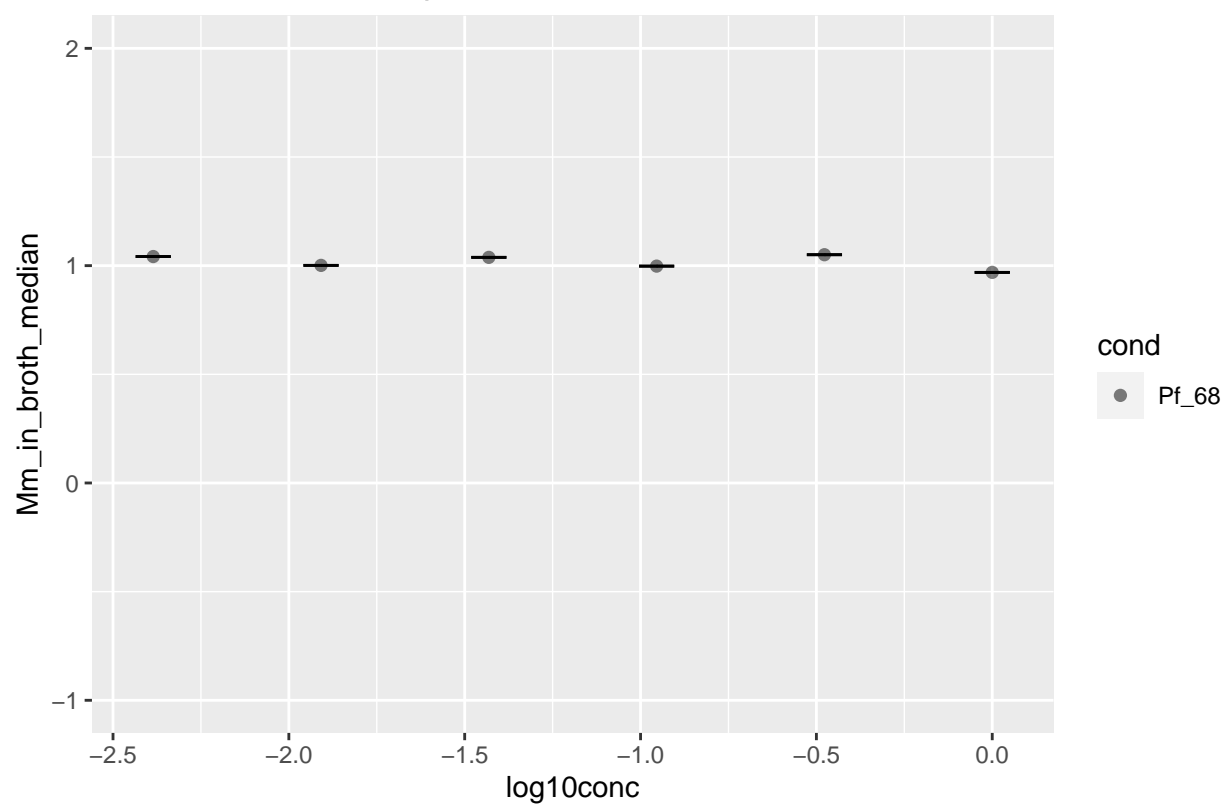
Pf_64 : RLU dose response curve, median & mad

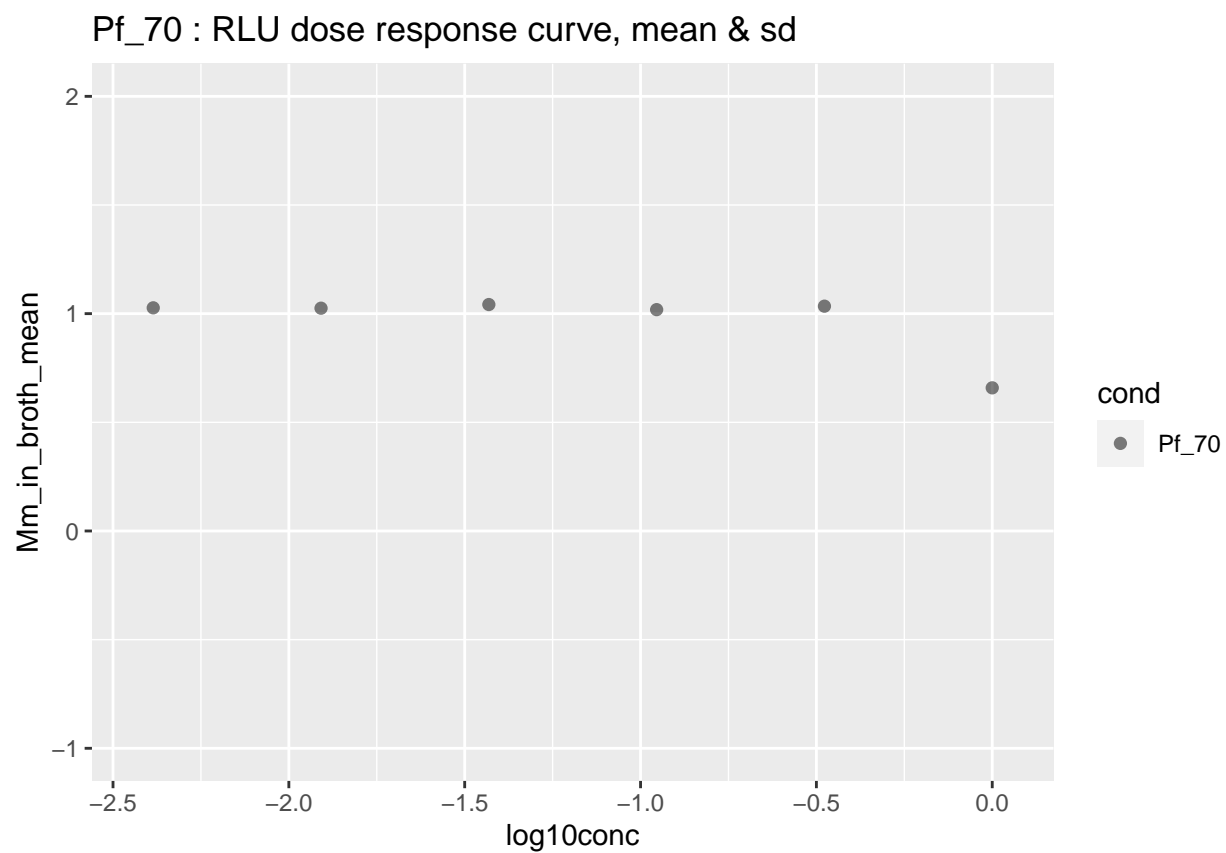


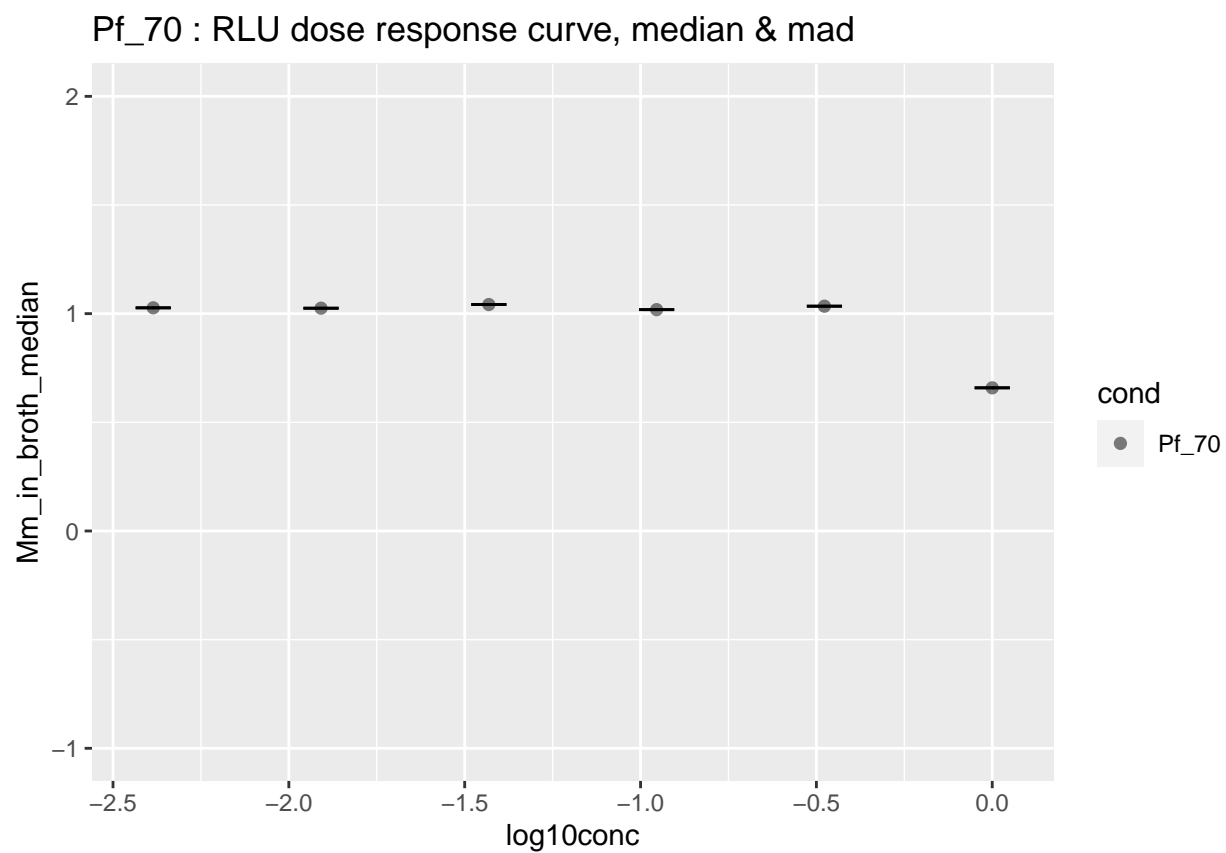
Pf_68 : RLU dose response curve, mean & sd

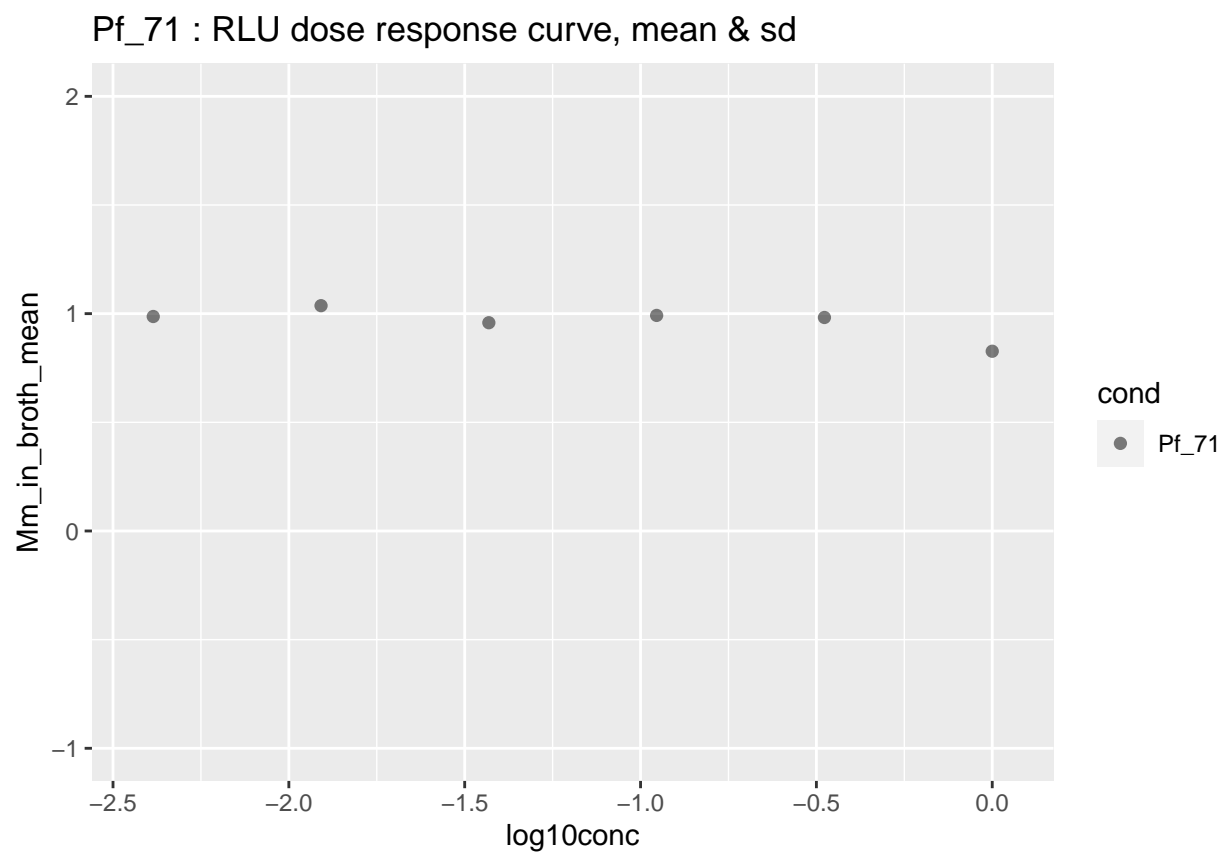


Pf_68 : RLU dose response curve, median & mad

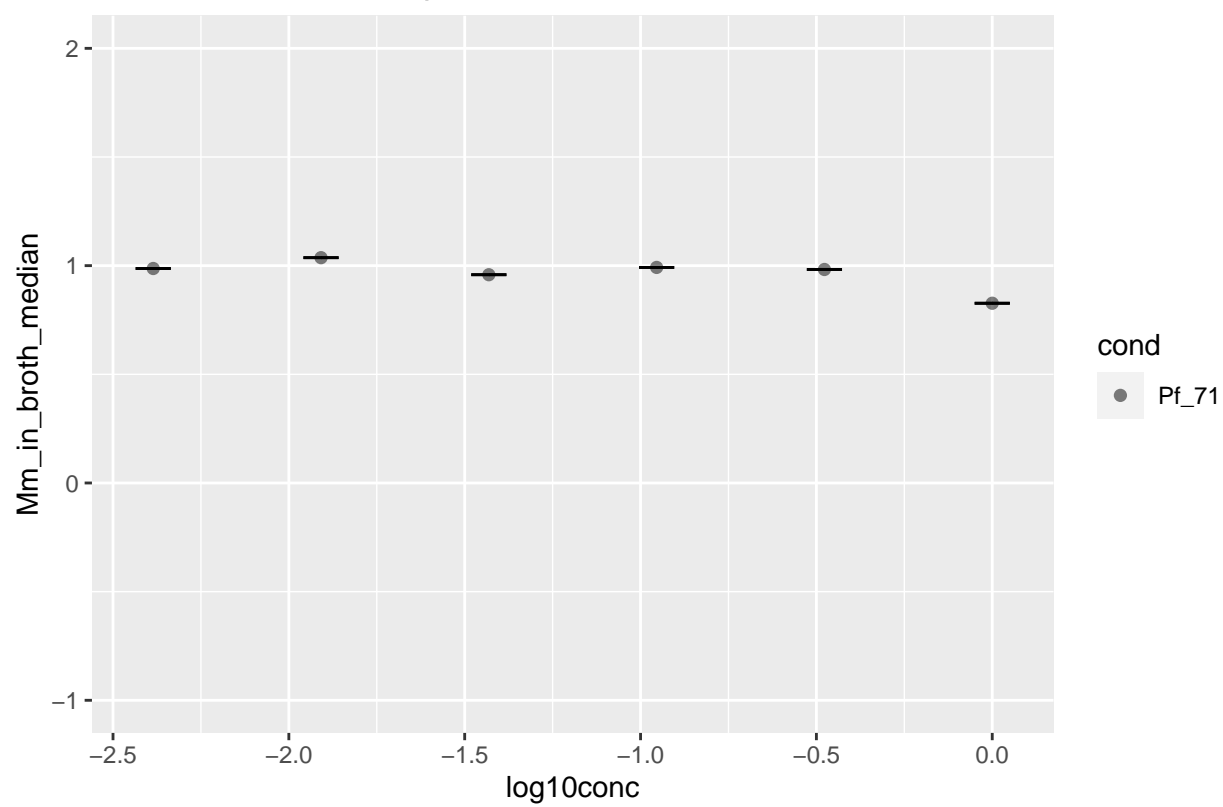




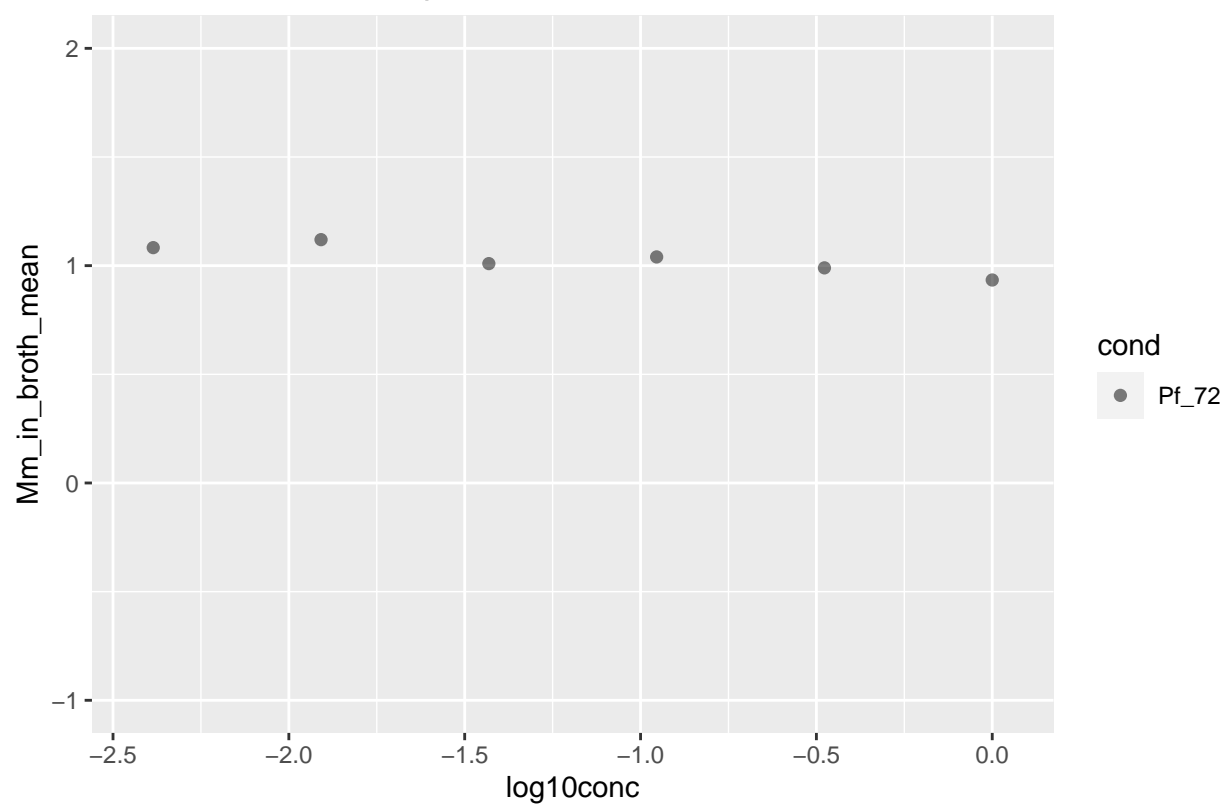




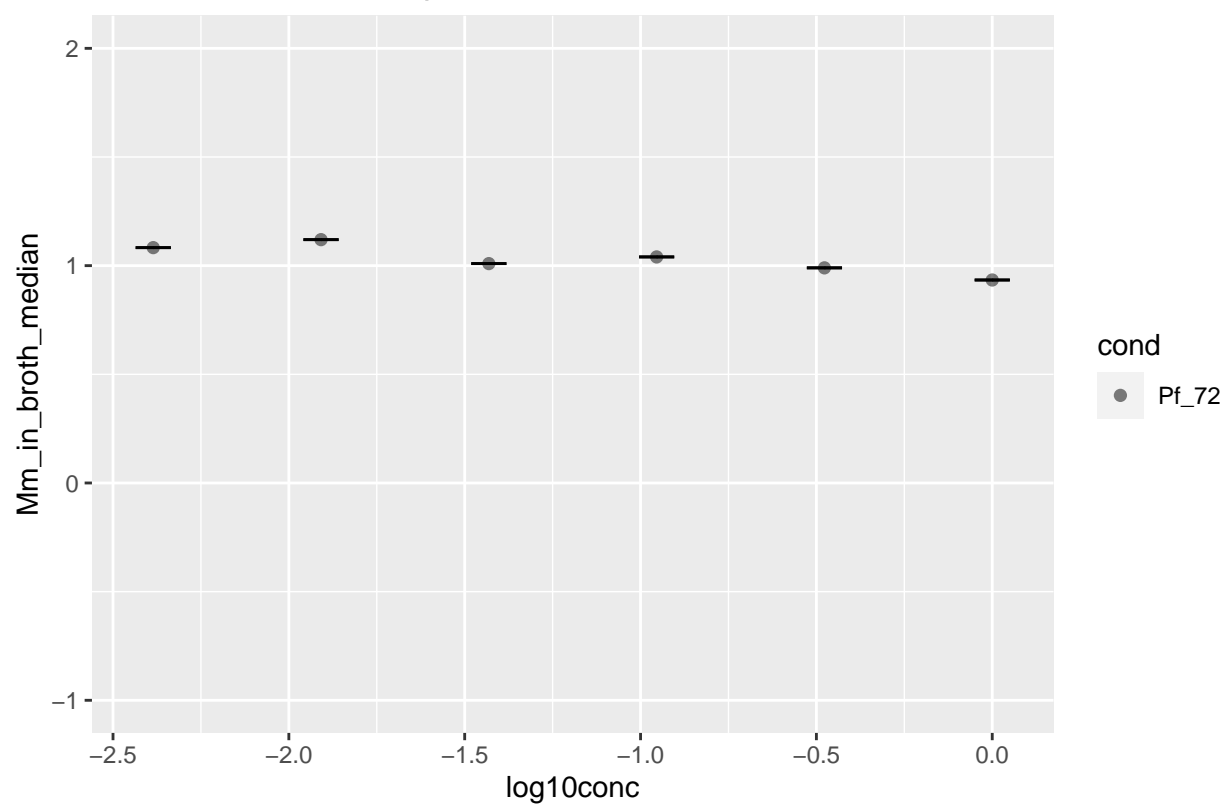
Pf_71 : RLU dose response curve, median & mad



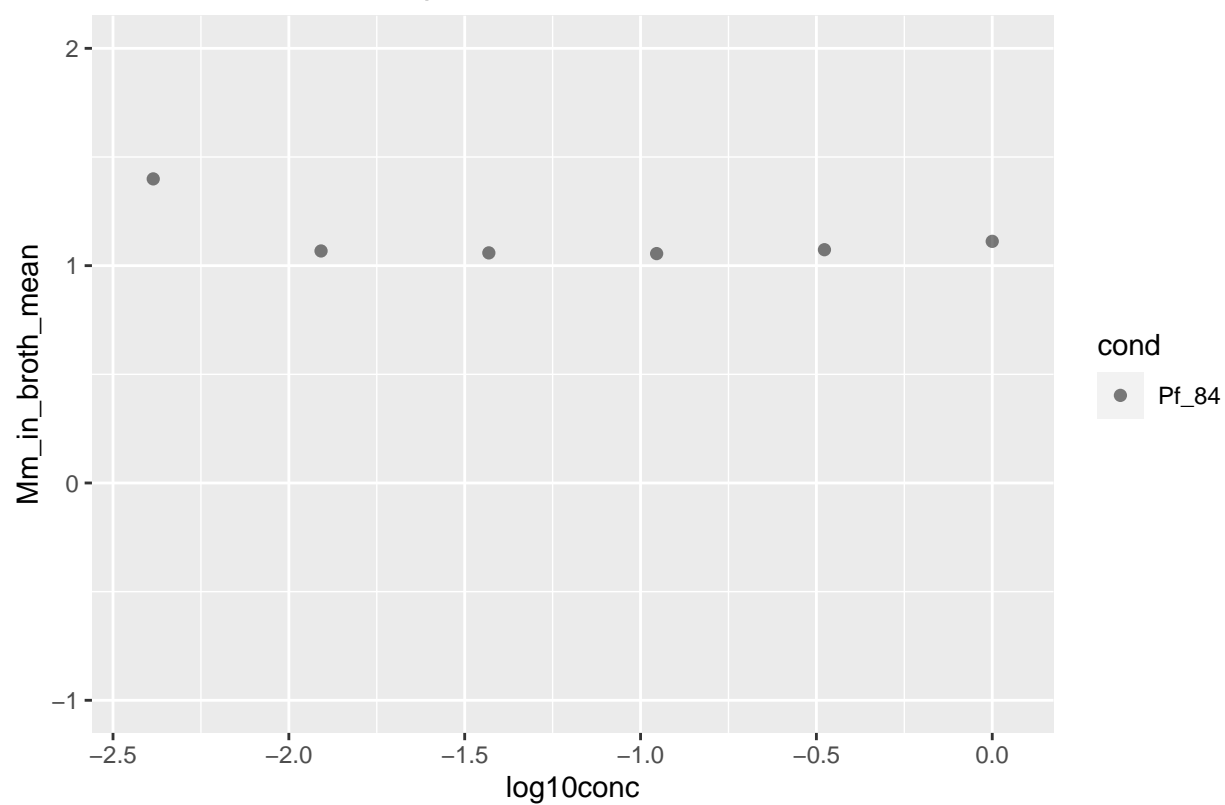
Pf_72 : RLU dose response curve, mean & sd

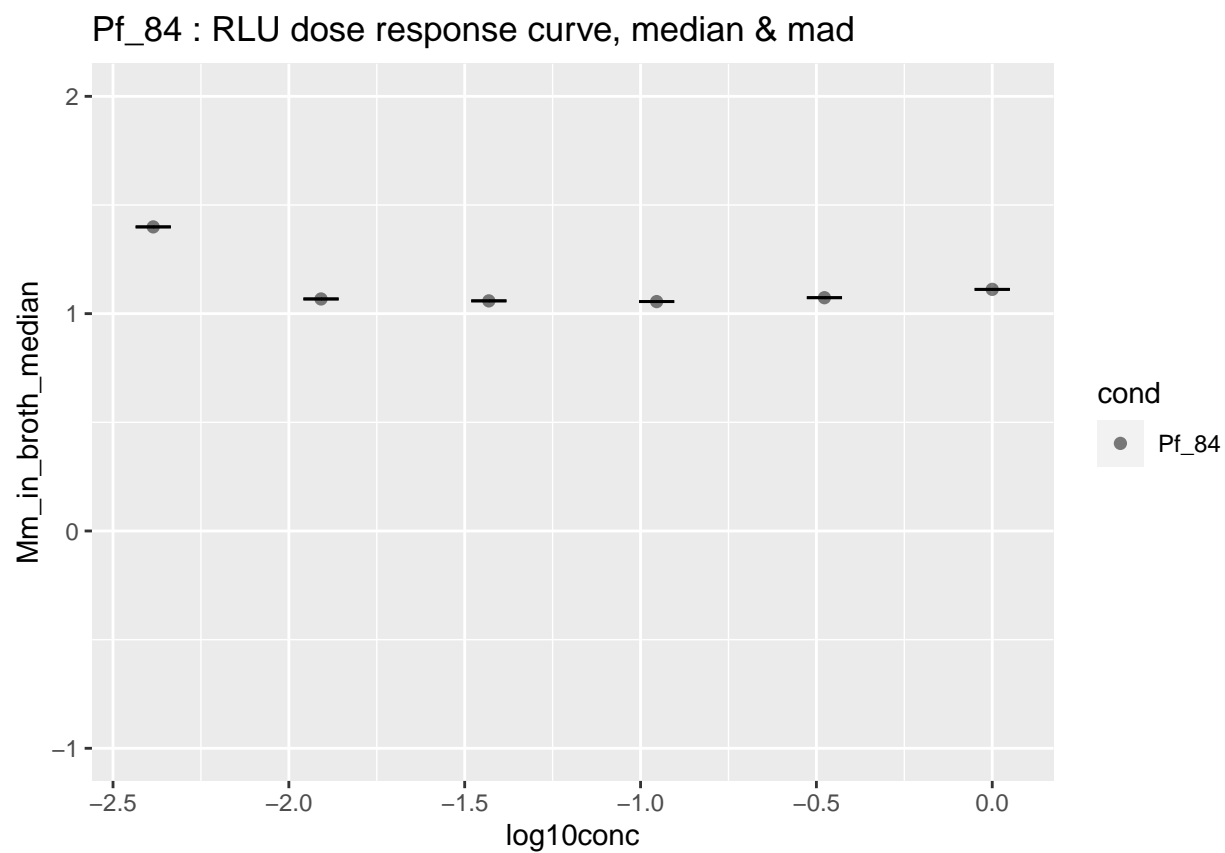


Pf_72 : RLU dose response curve, median & mad

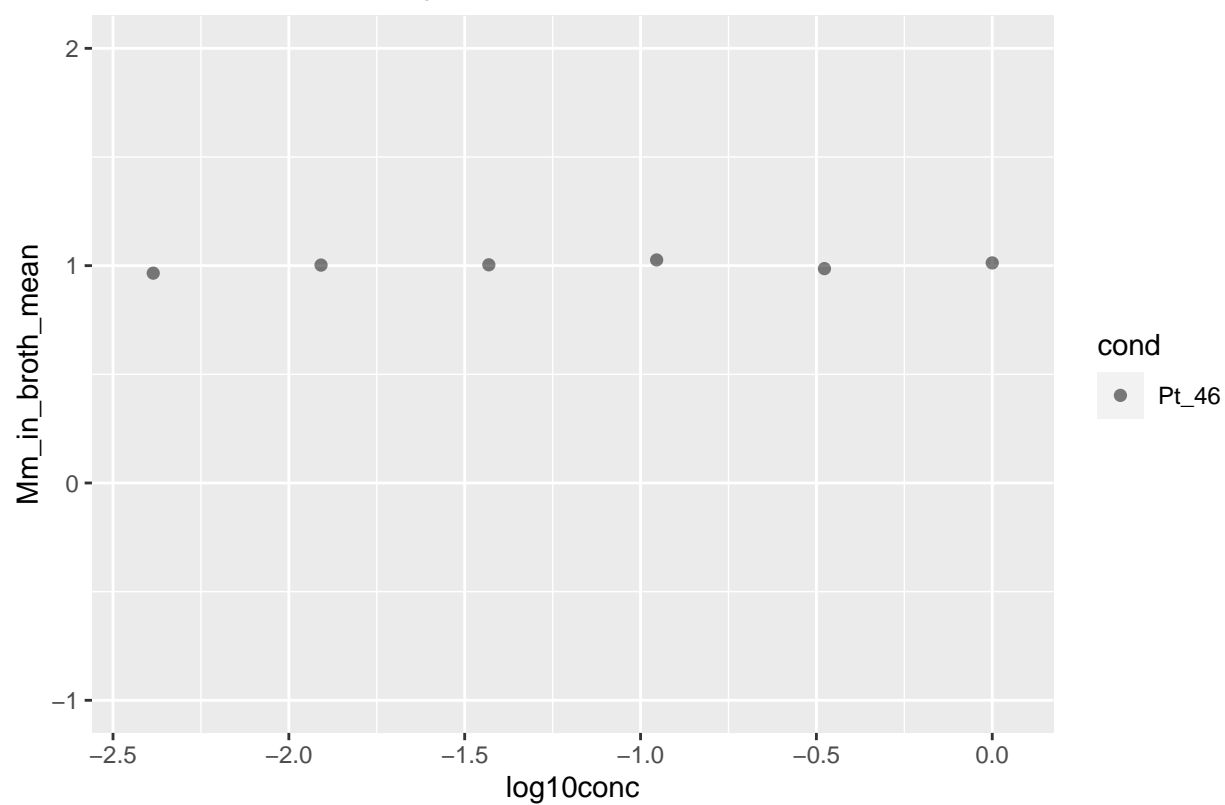


Pf_84 : RLU dose response curve, mean & sd

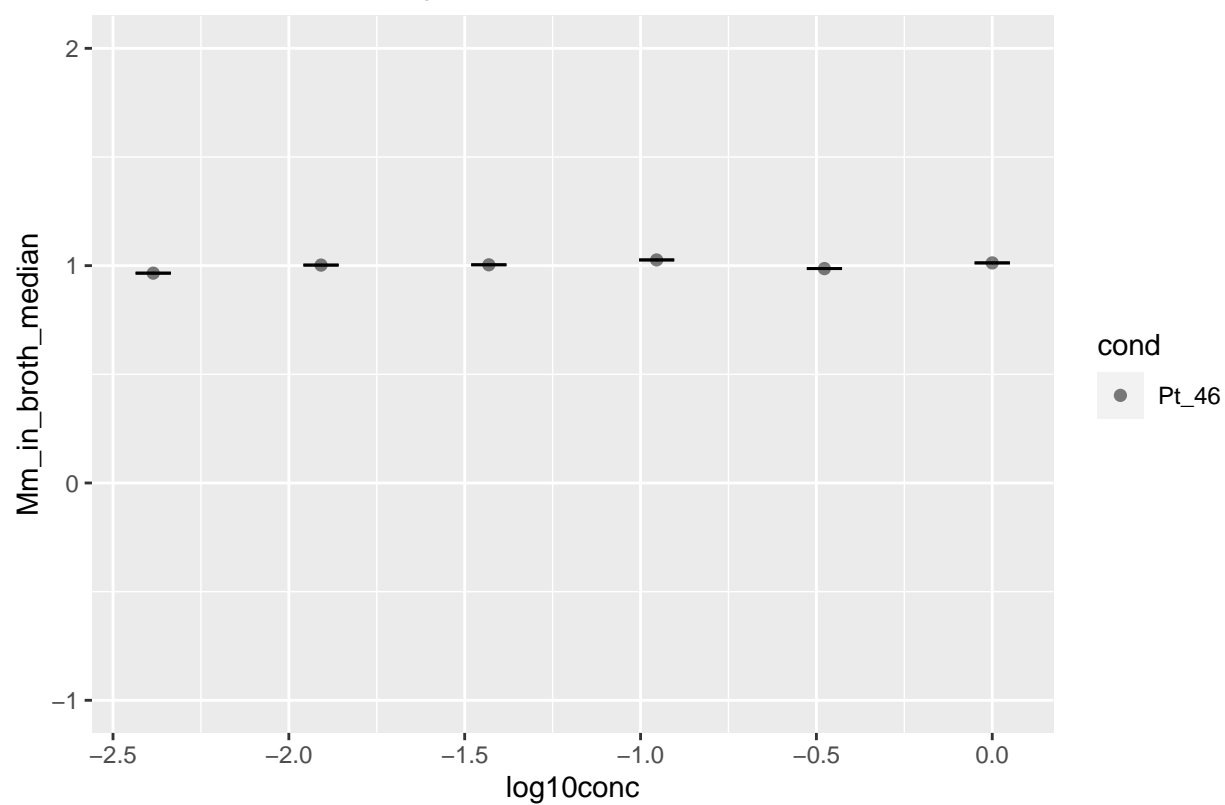




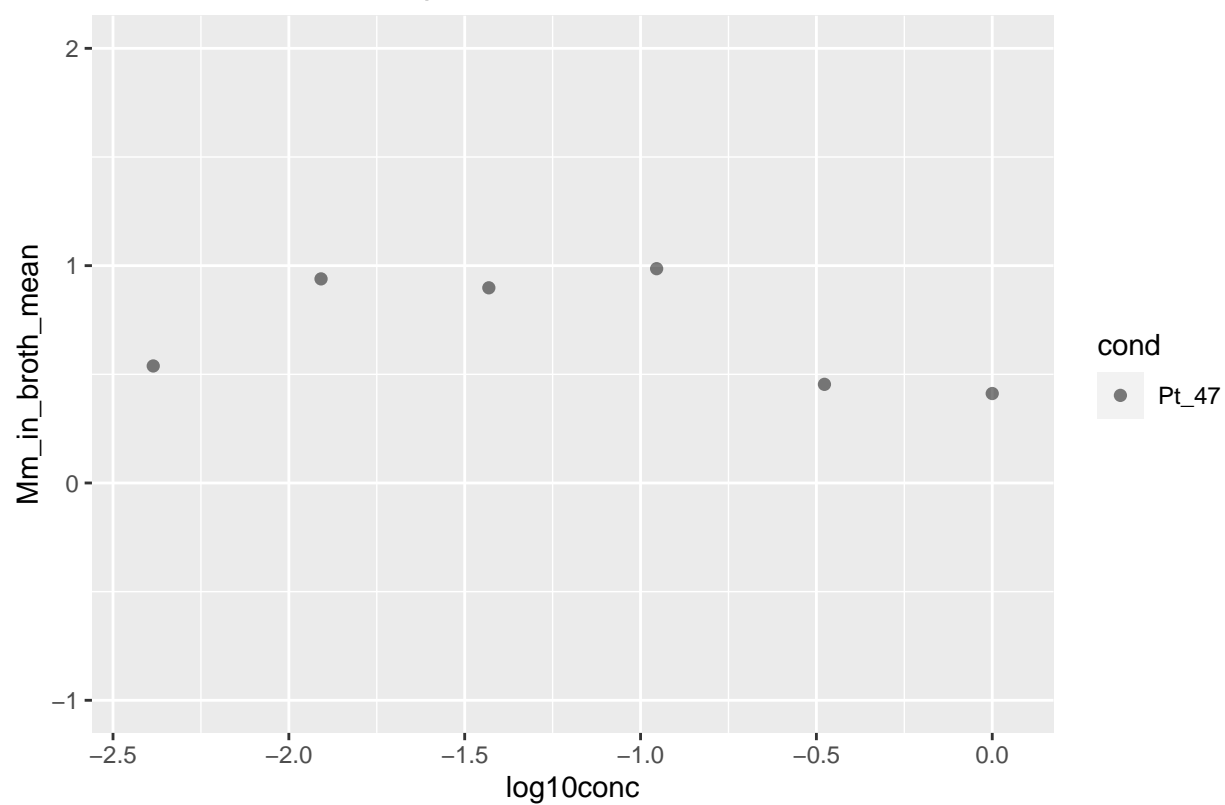
Pt_46 : RLU dose response curve, mean & sd

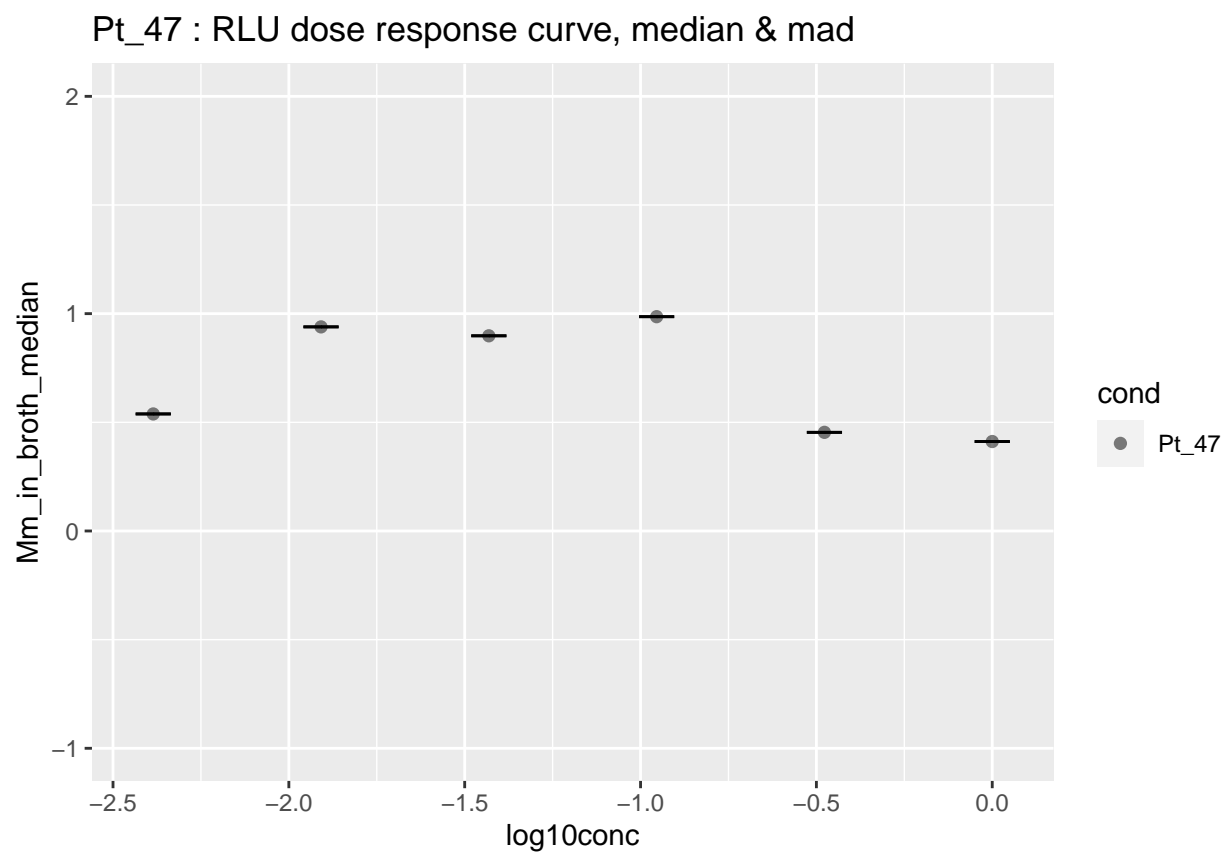


Pt_46 : RLU dose response curve, median & mad

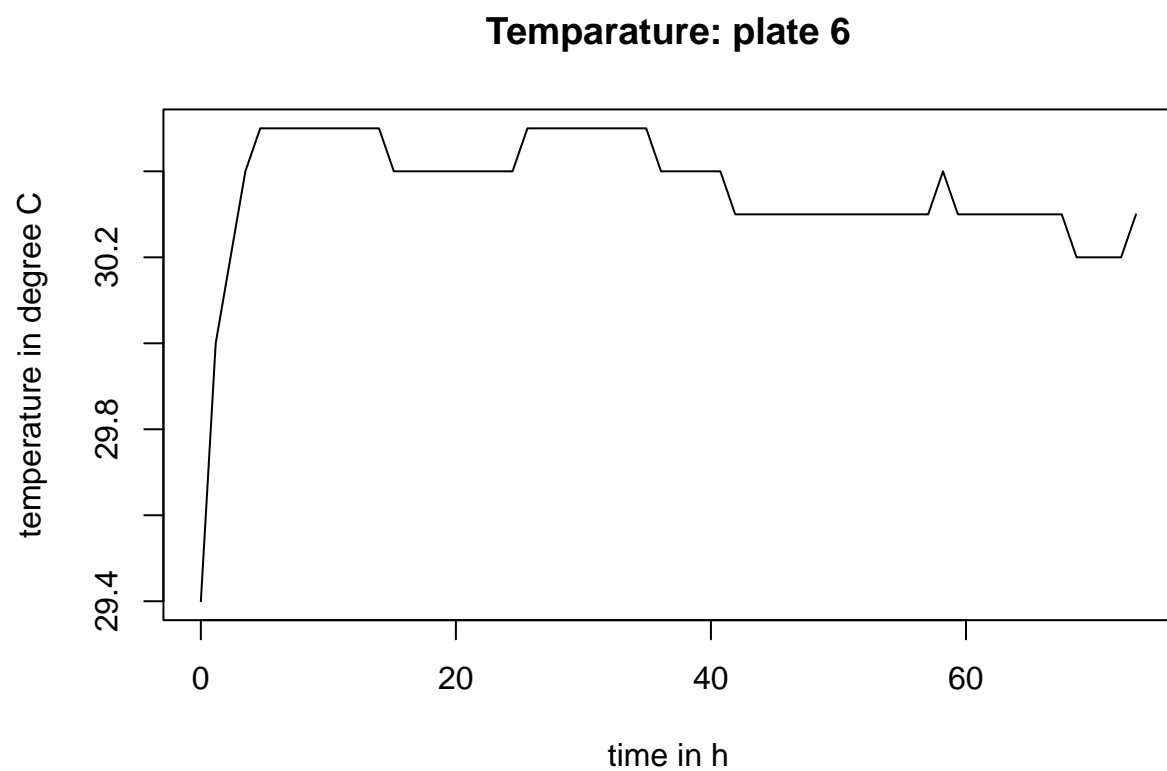


Pt_47 : RLU dose response curve, mean & sd

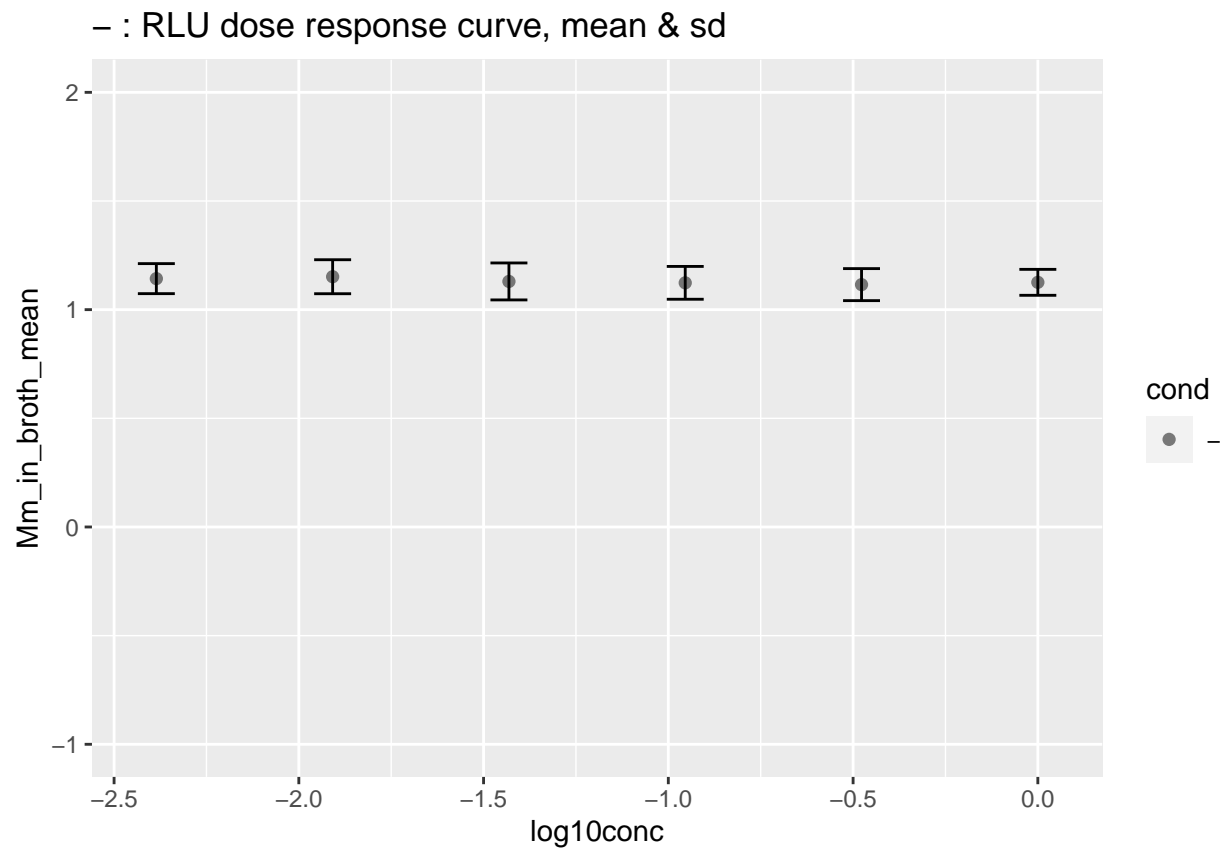


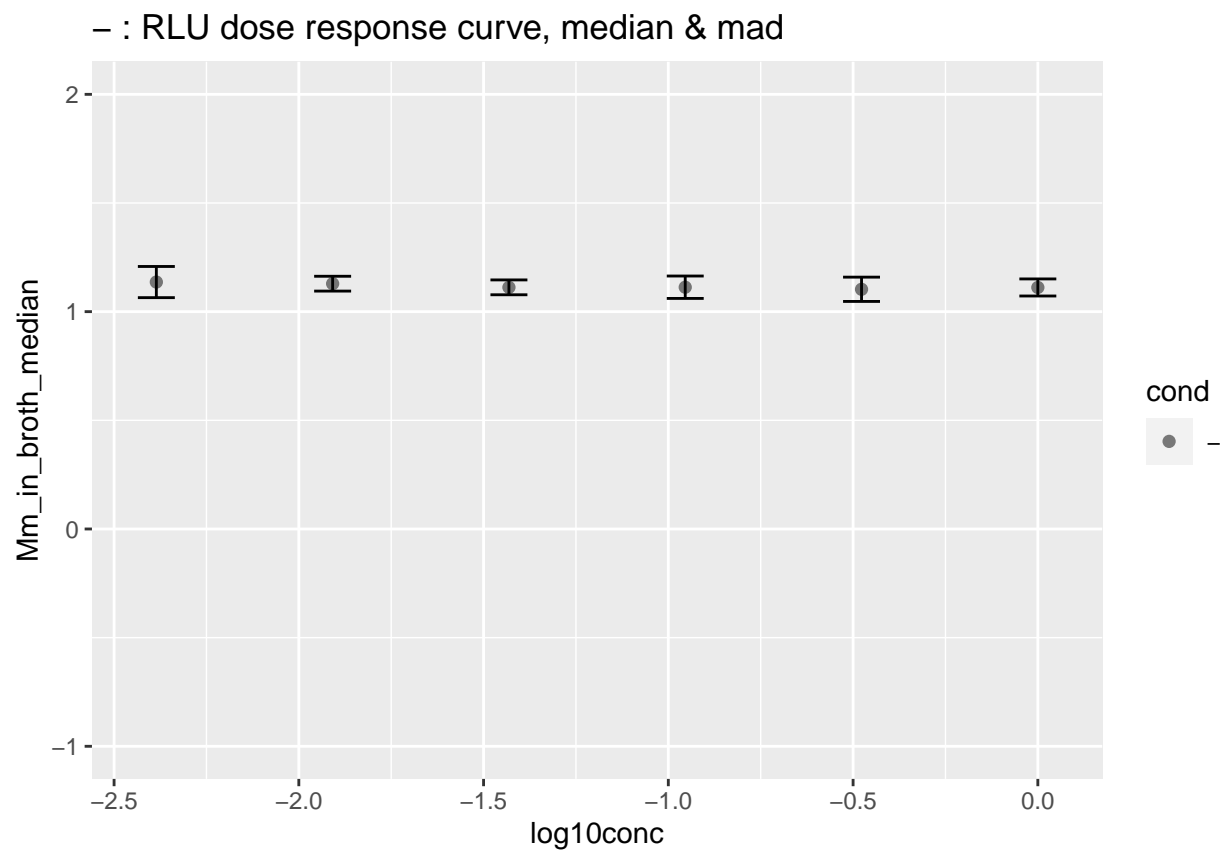


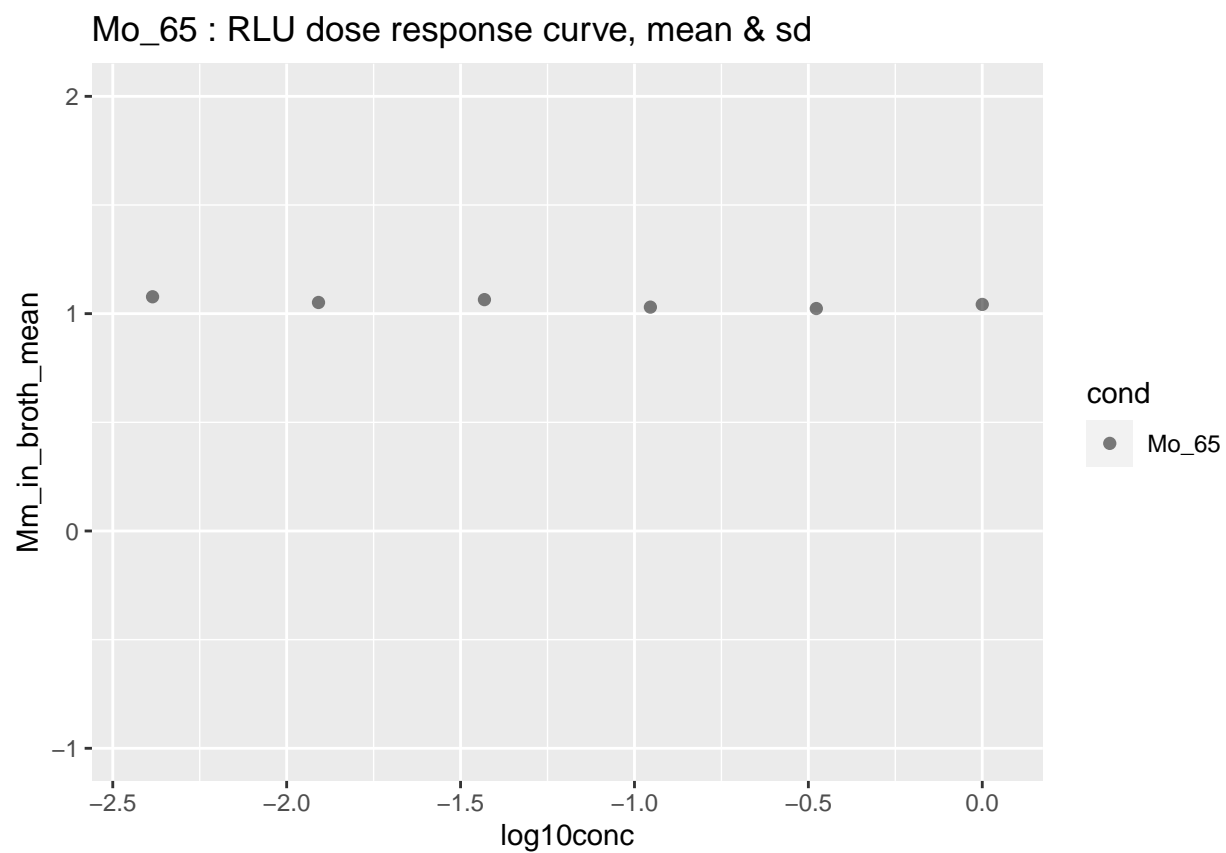
```
## [1] "analysis for plate07.xlsx"
```



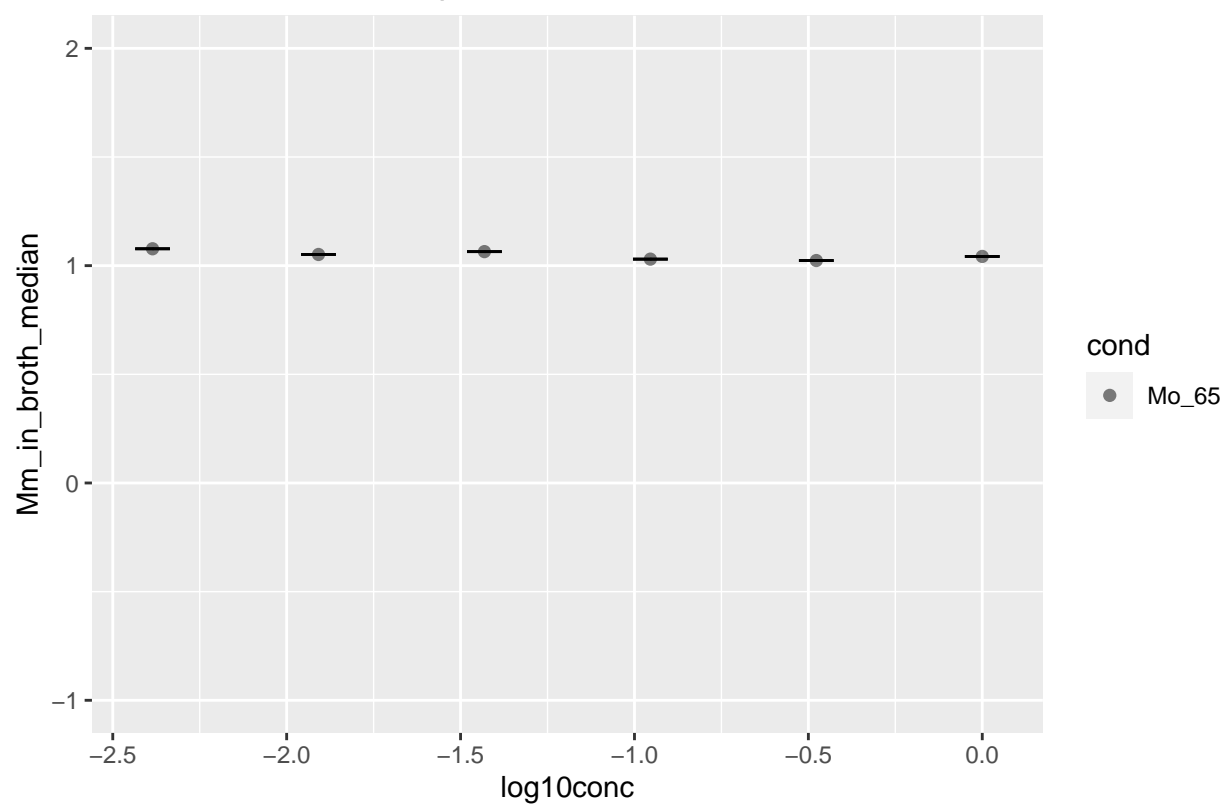
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate07.xlsx, biorep 3 : "  
## [1] 0.85  
## [1] "Dose response curves over all bioreps within this plate"
```

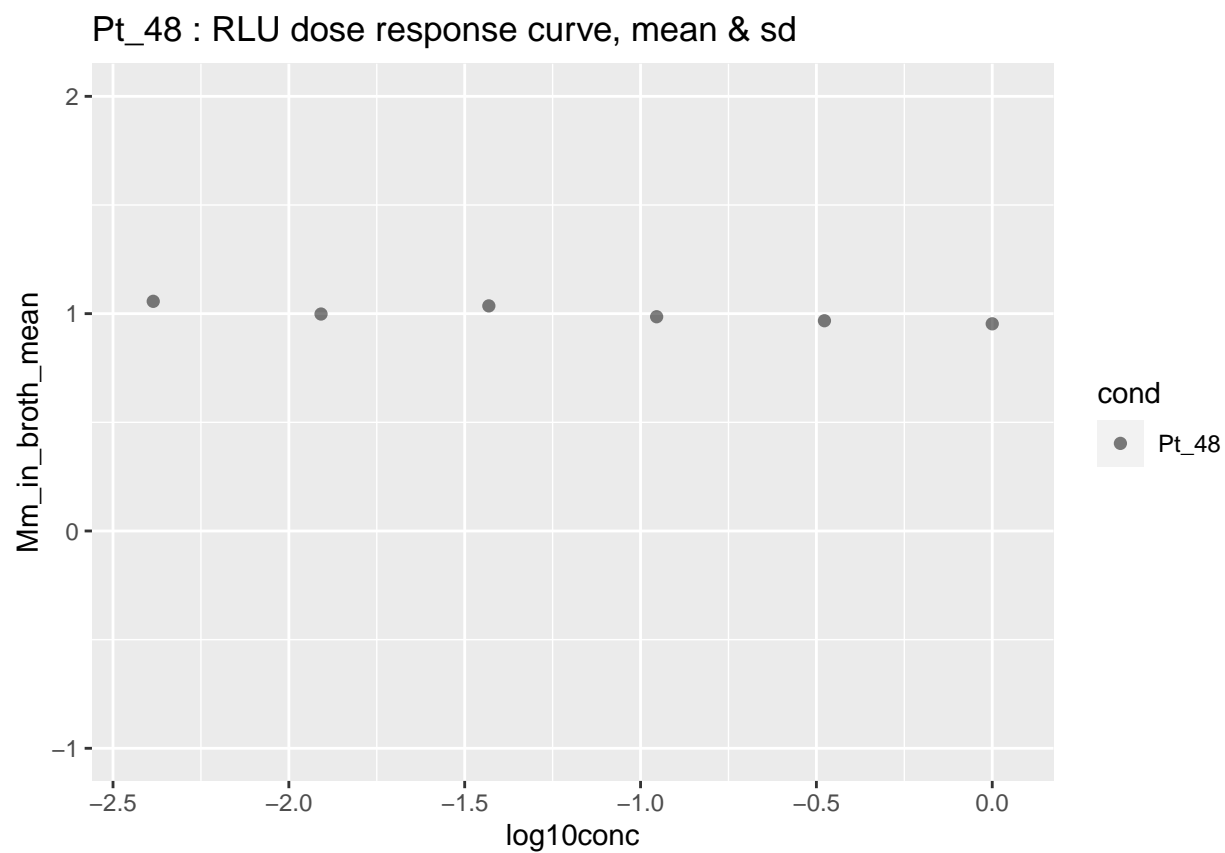





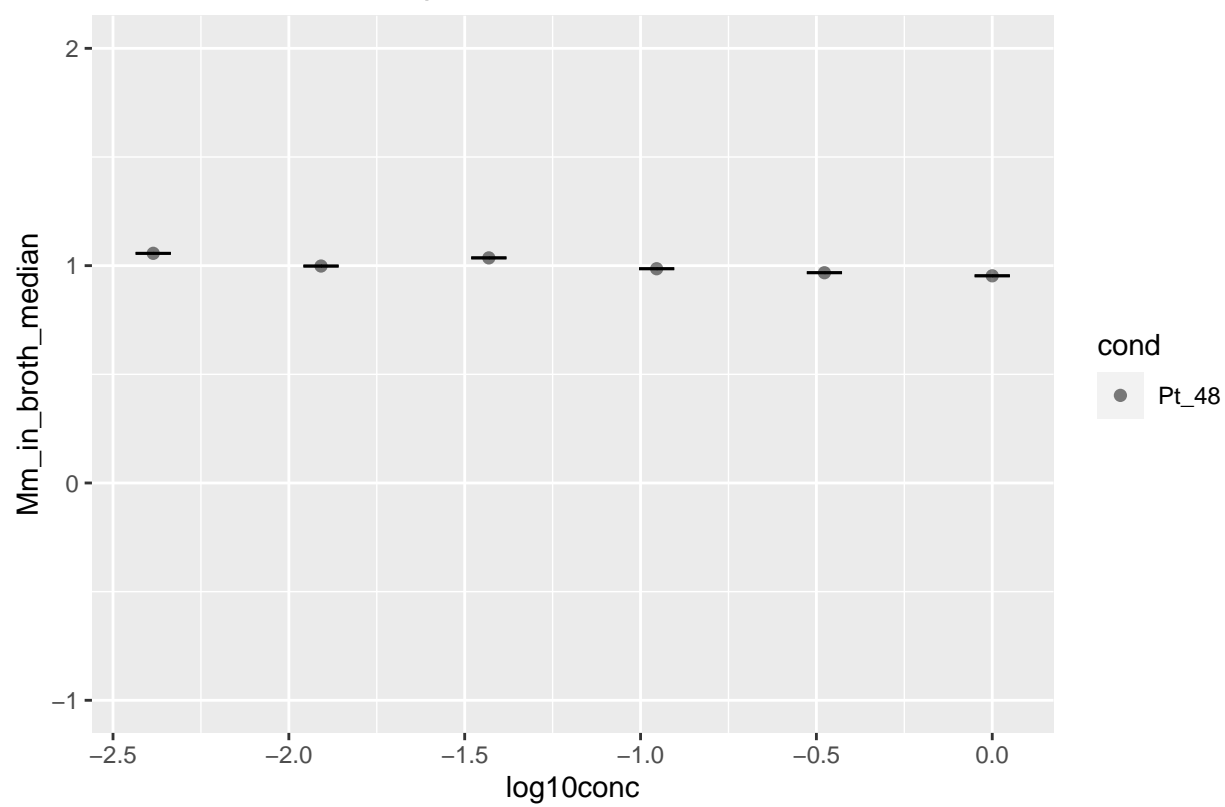


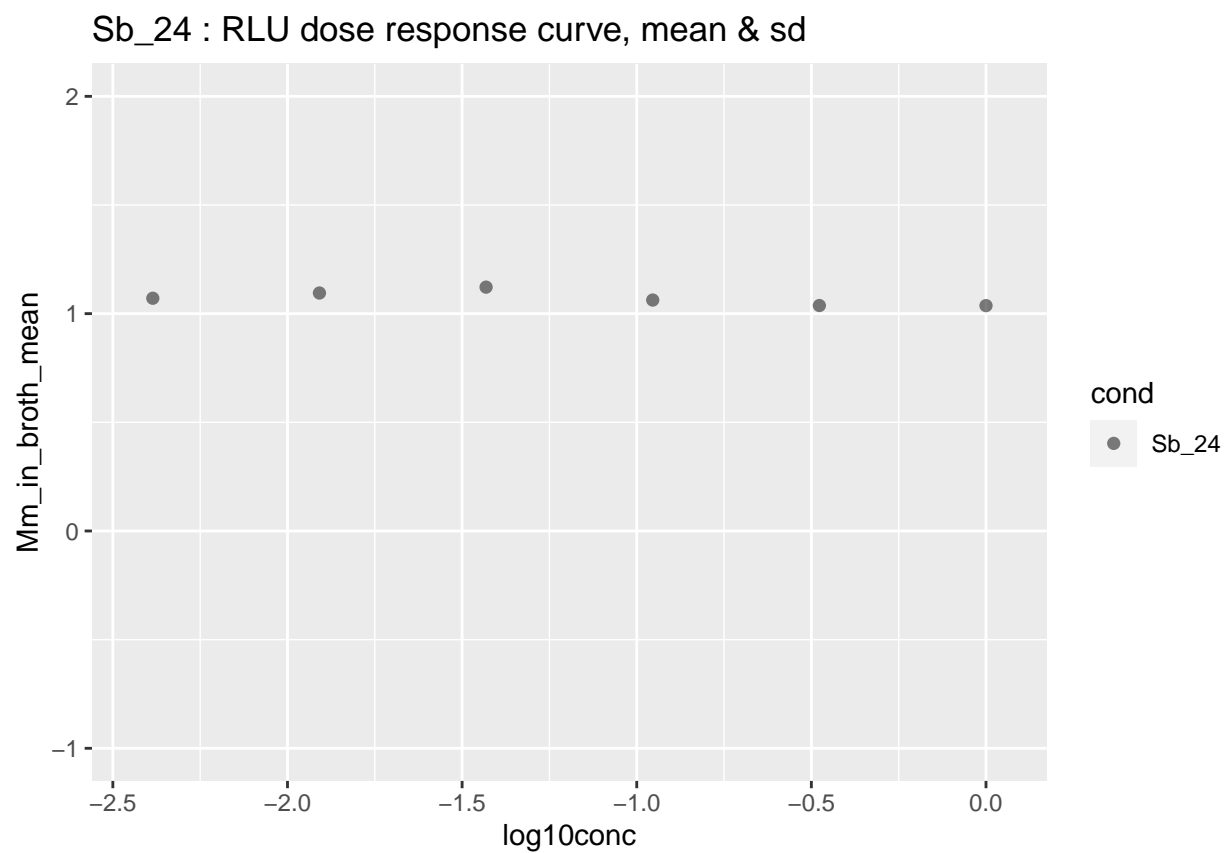
Mo_65 : RLU dose response curve, median & mad



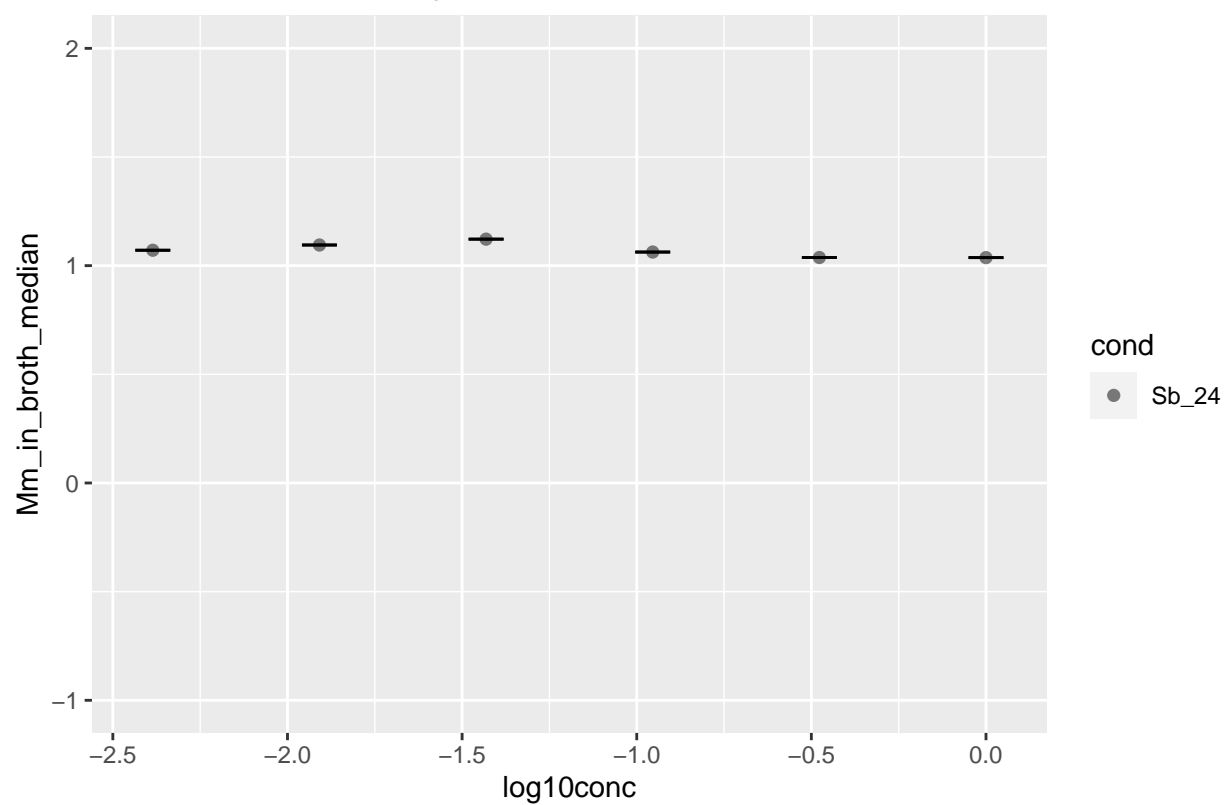


Pt_48 : RLU dose response curve, median & mad

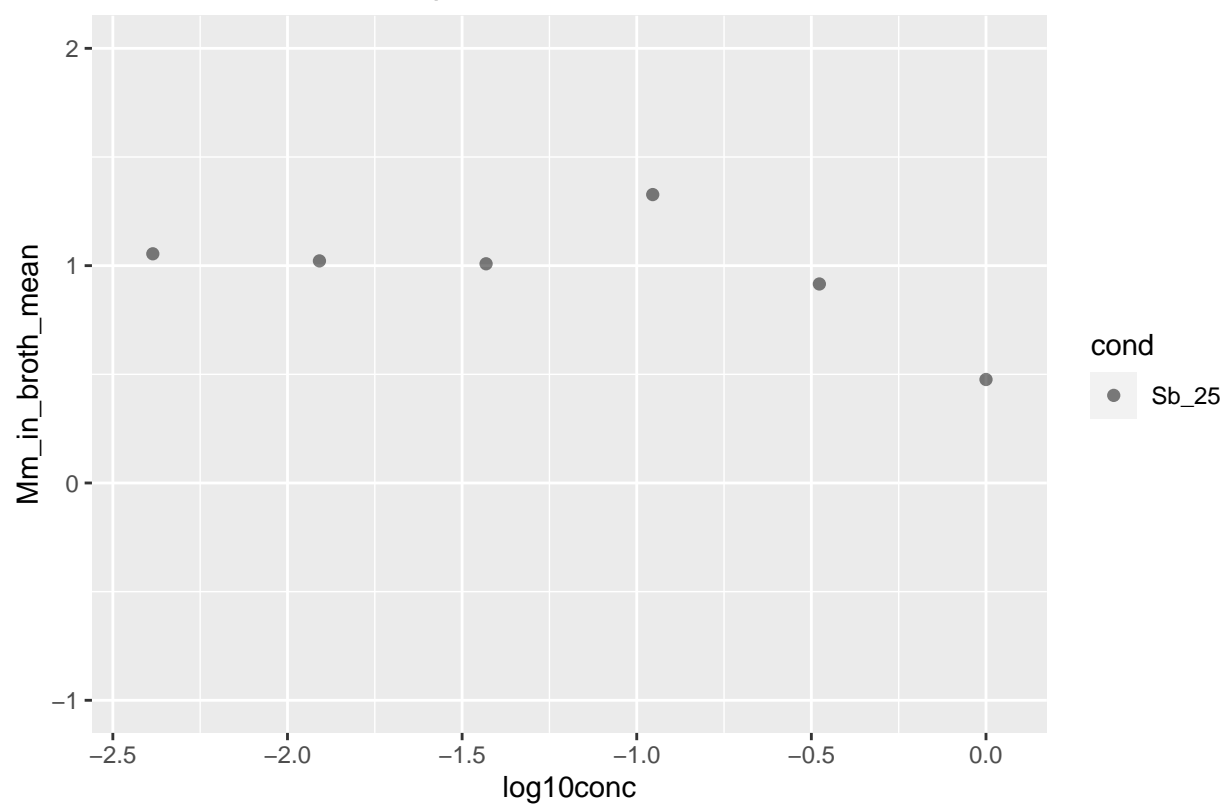




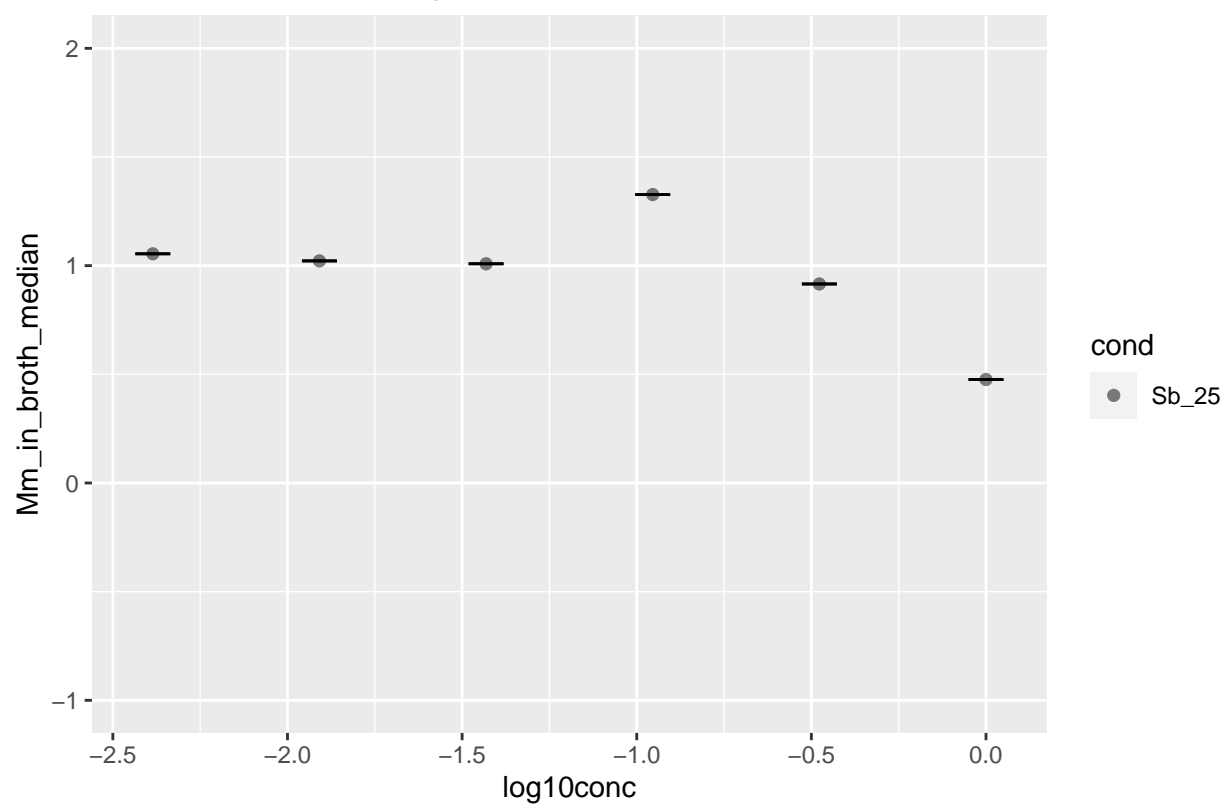
Sb_24 : RLU dose response curve, median & mad



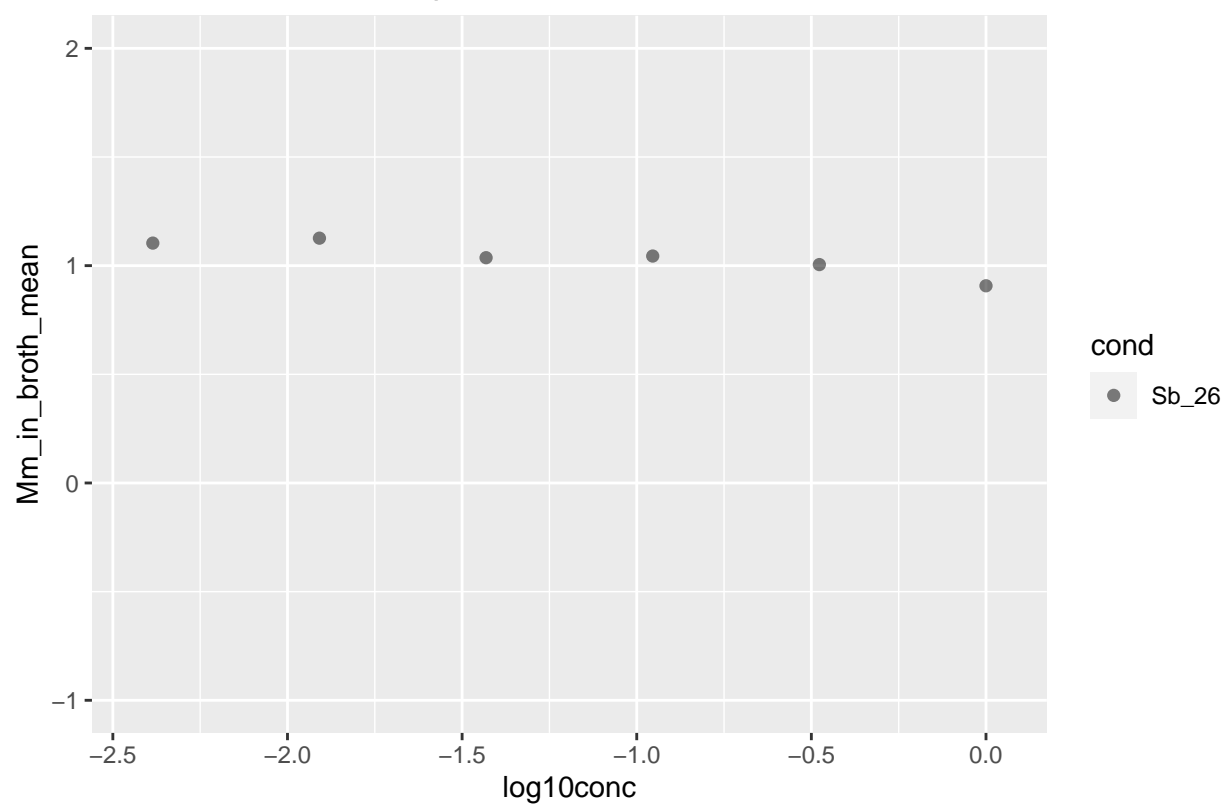
Sb_25 : RLU dose response curve, mean & sd



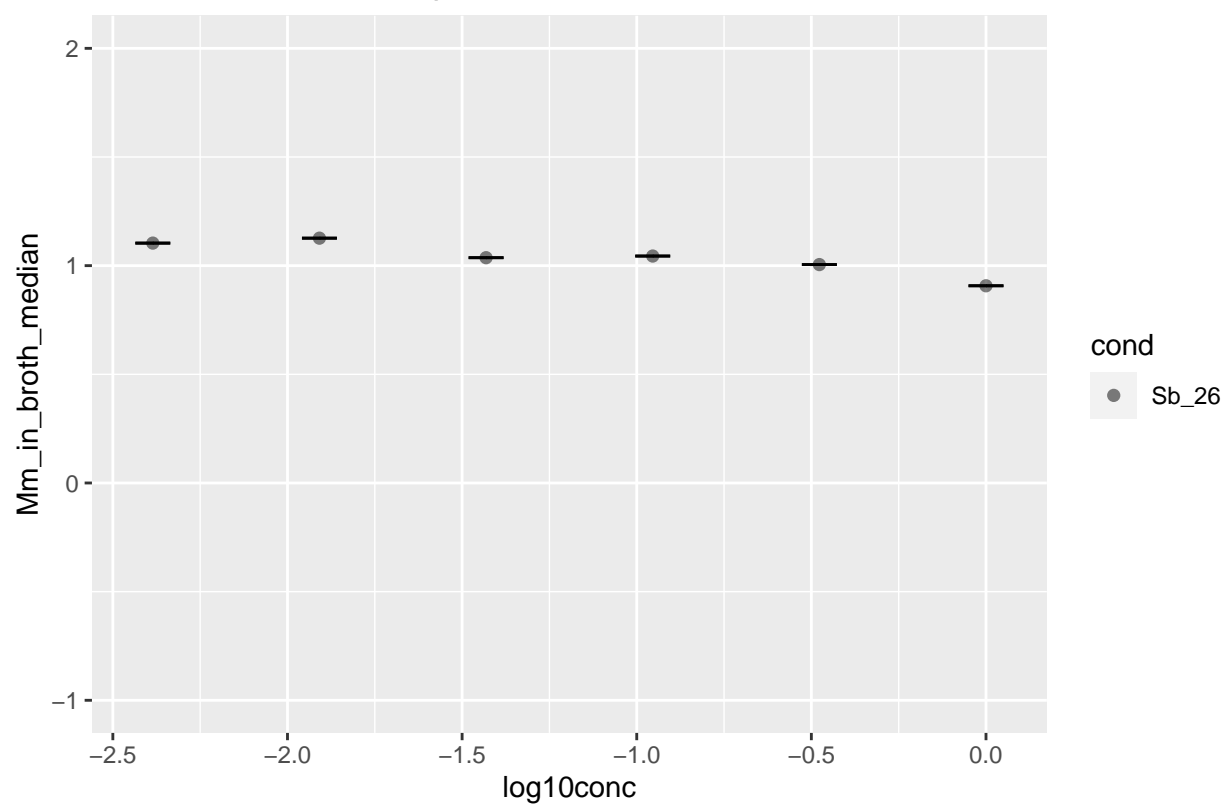
Sb_25 : RLU dose response curve, median & mad

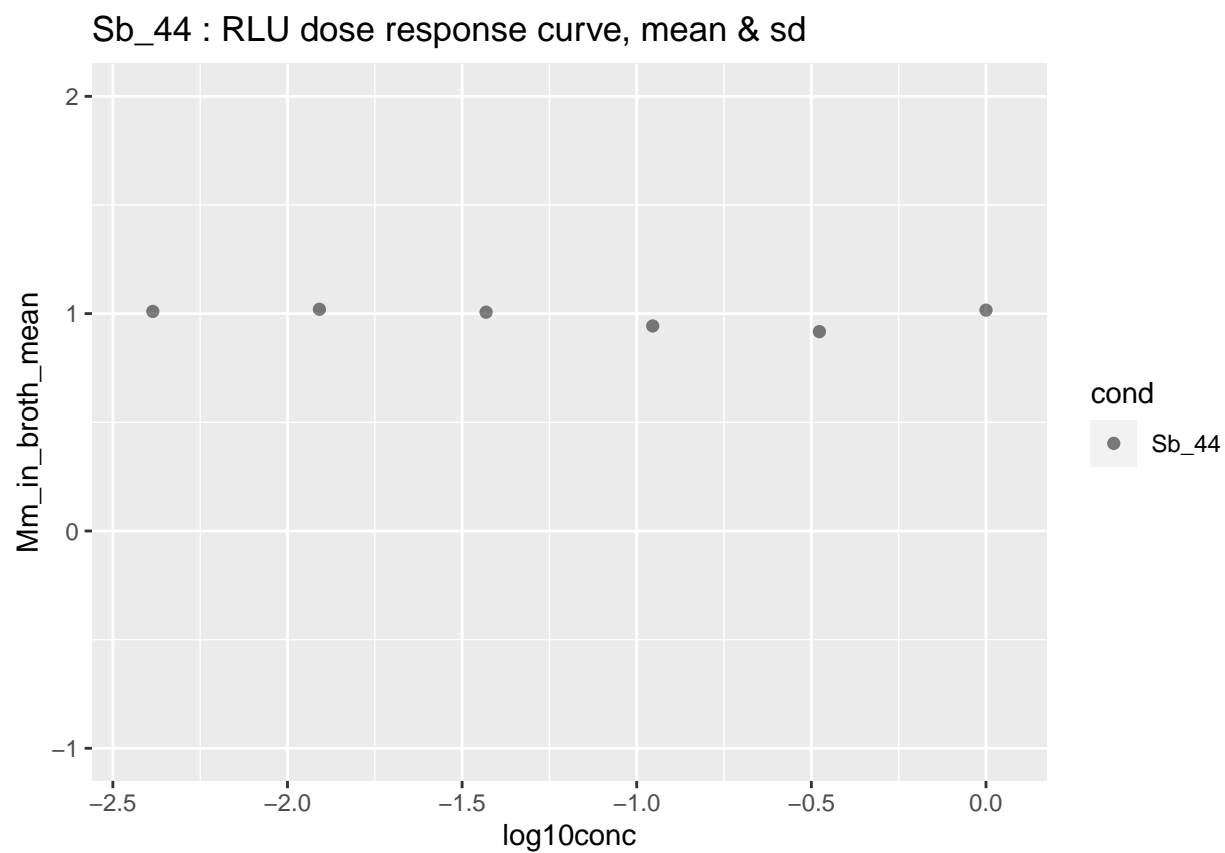


Sb_26 : RLU dose response curve, mean & sd

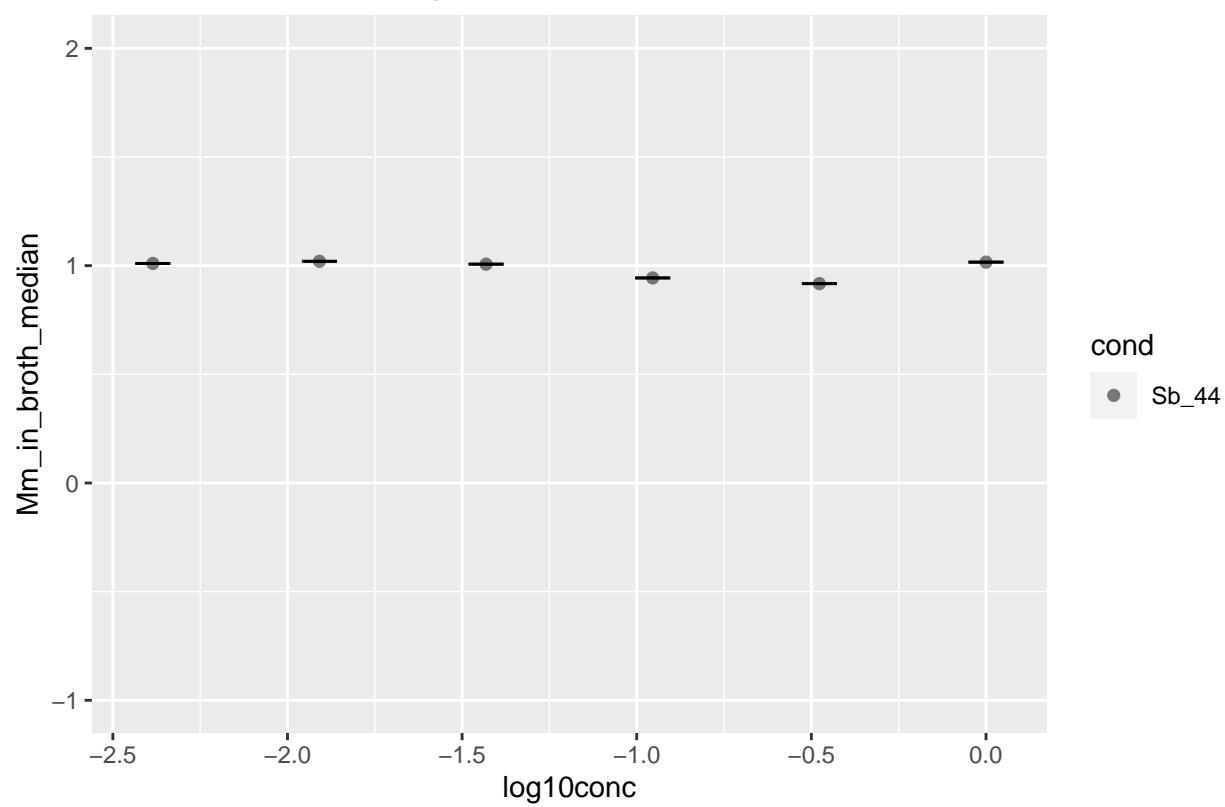


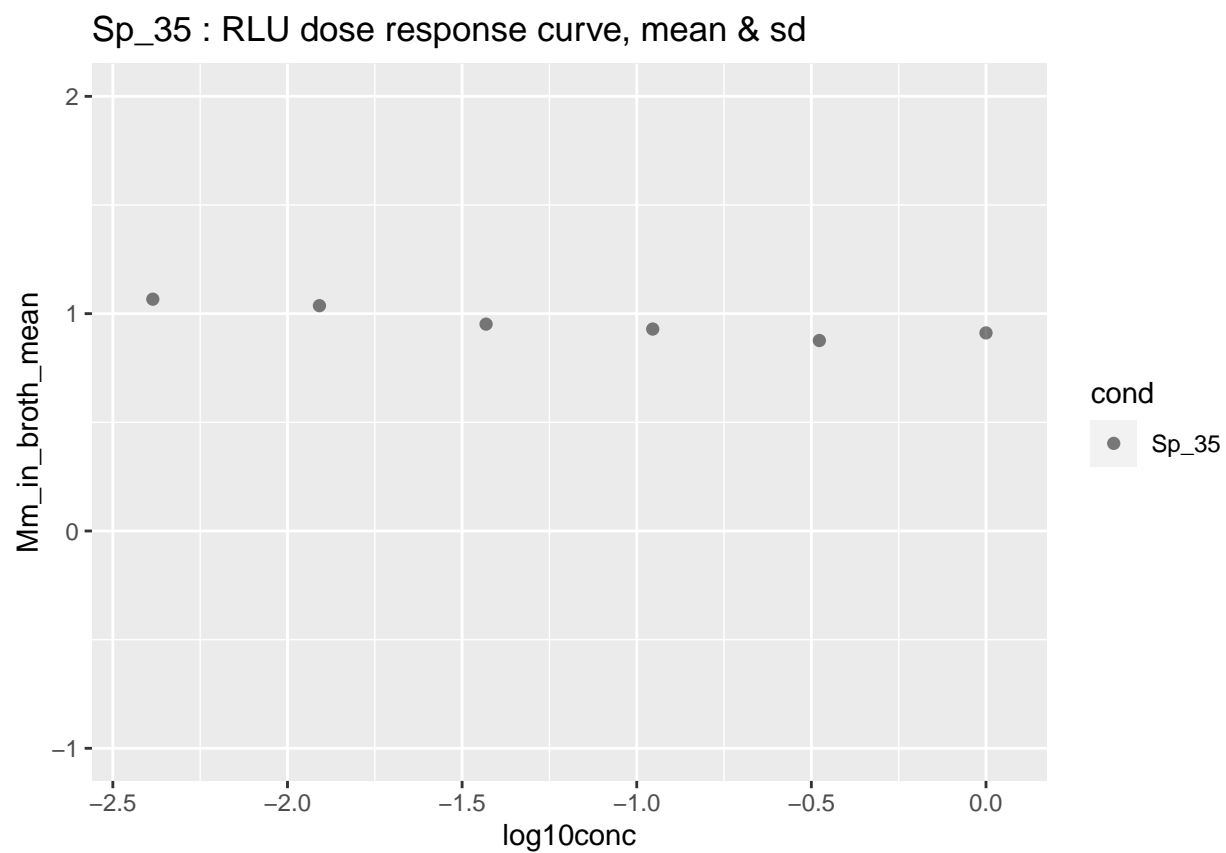
Sb_26 : RLU dose response curve, median & mad



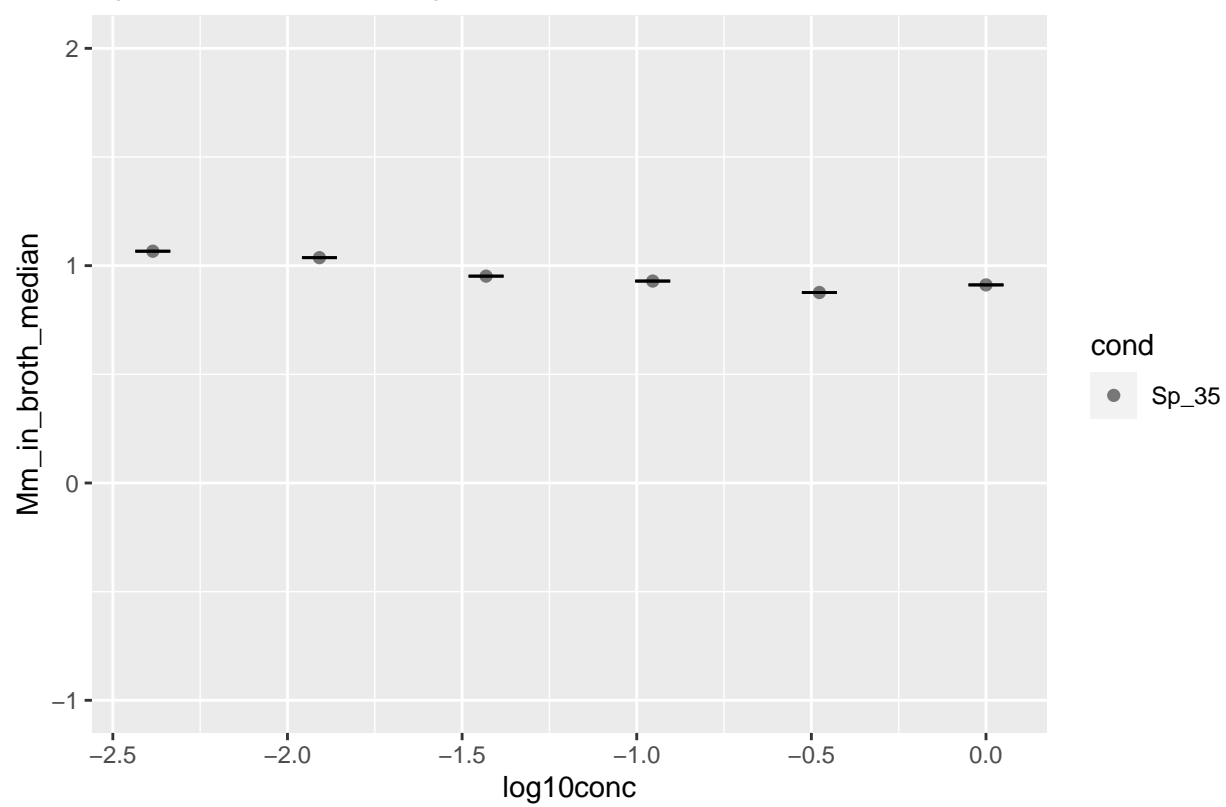


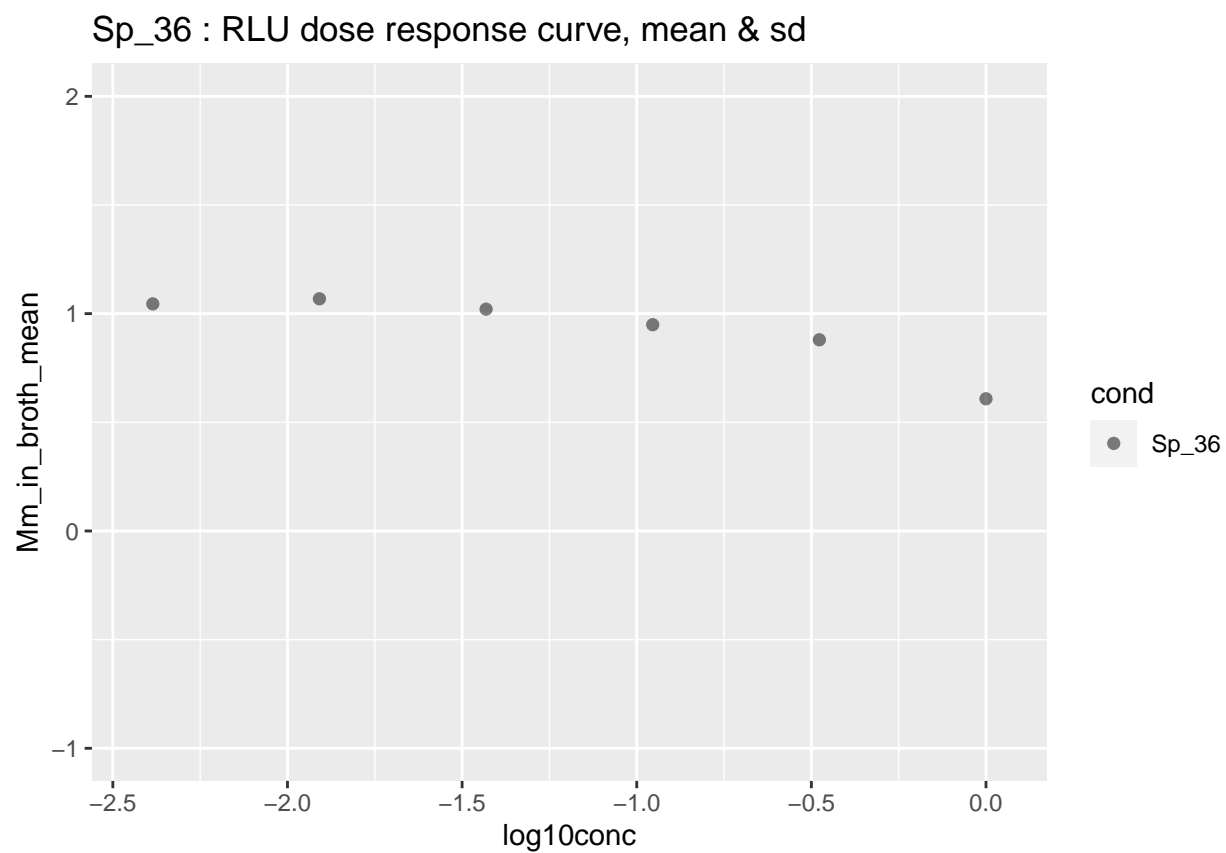
Sb_44 : RLU dose response curve, median & mad

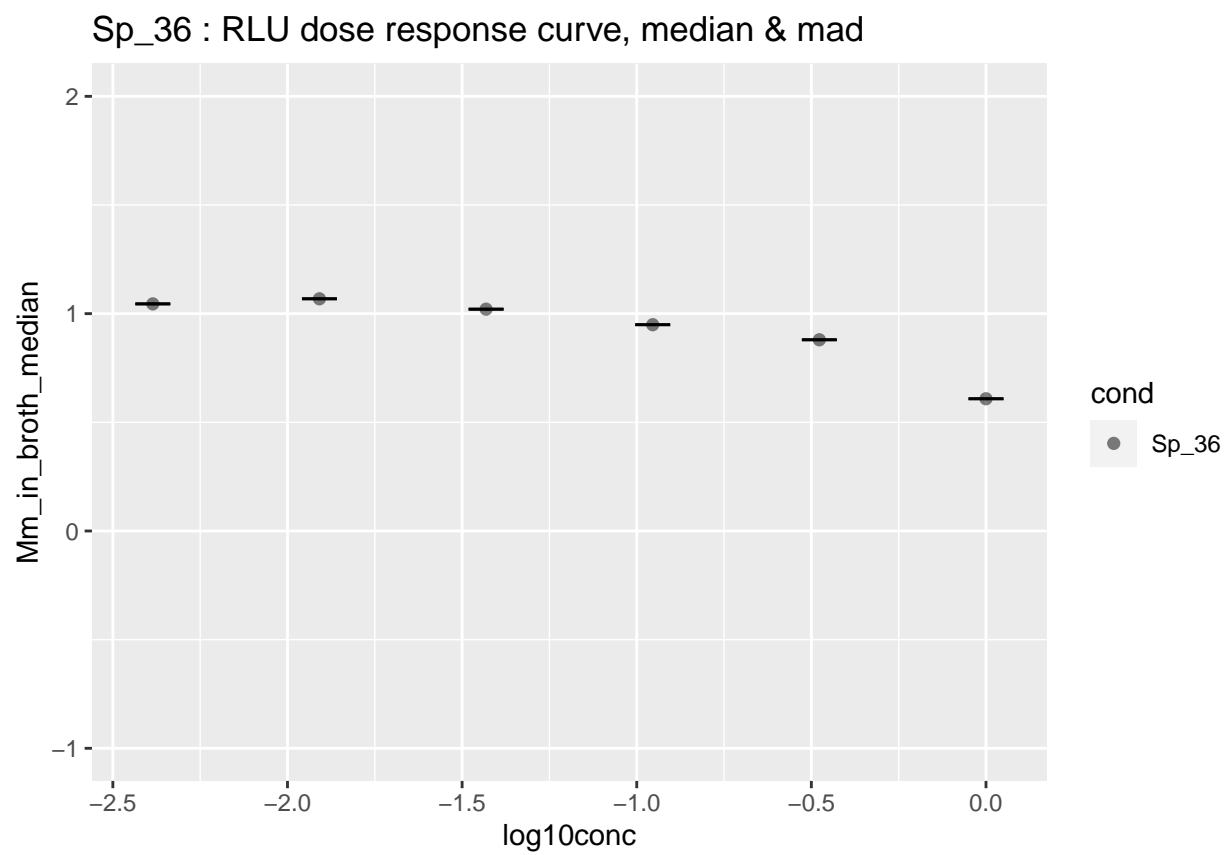




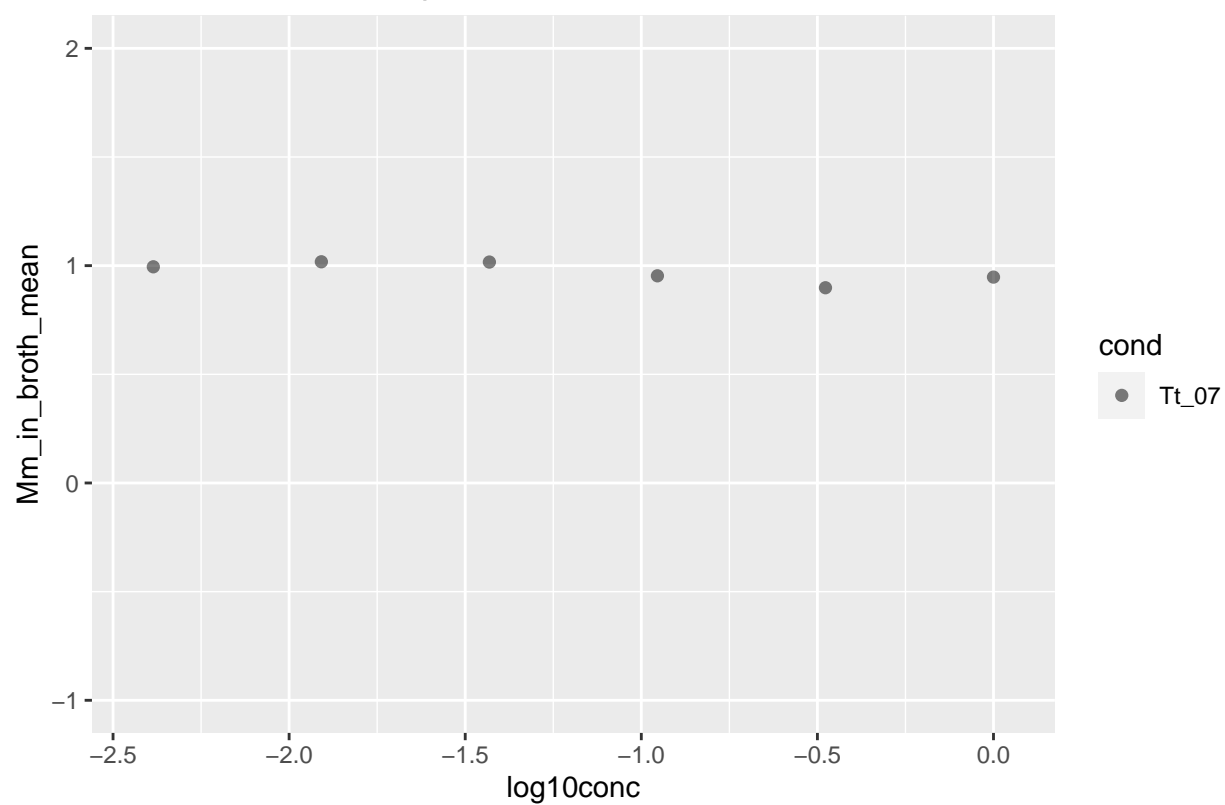
Sp_35 : RLU dose response curve, median & mad



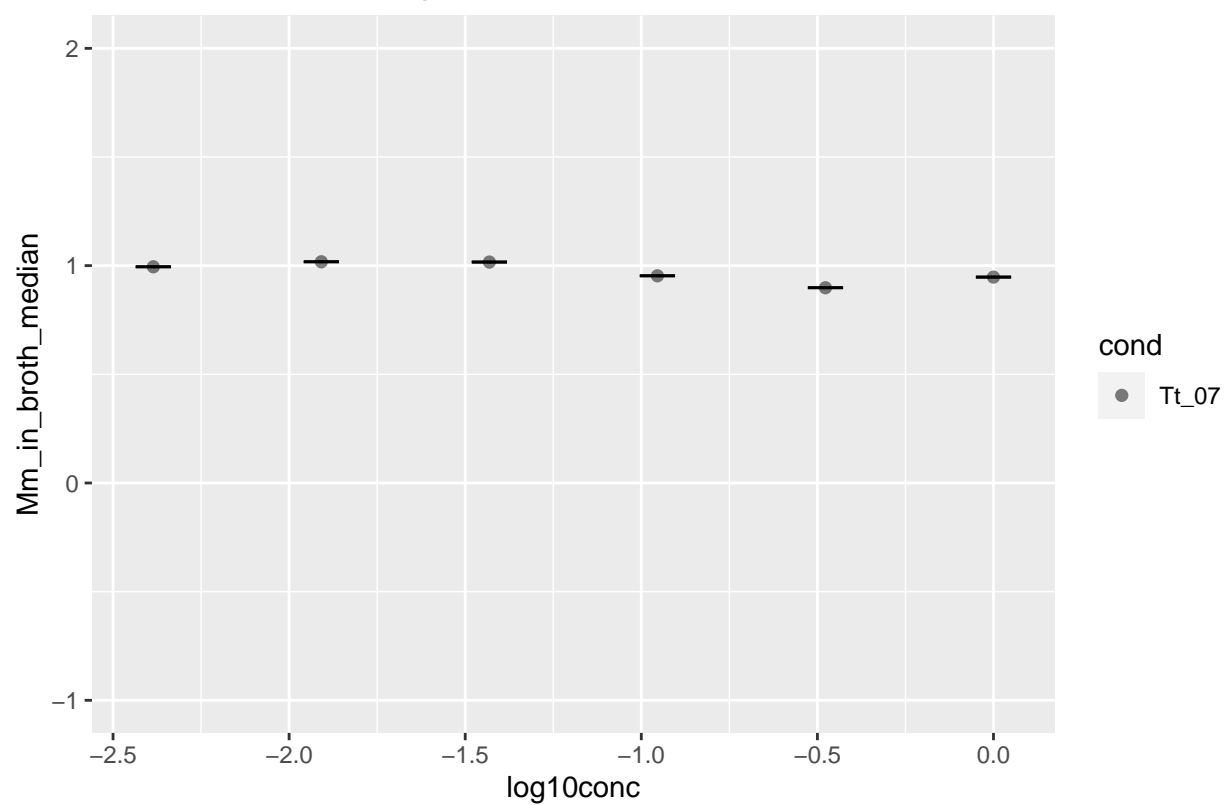


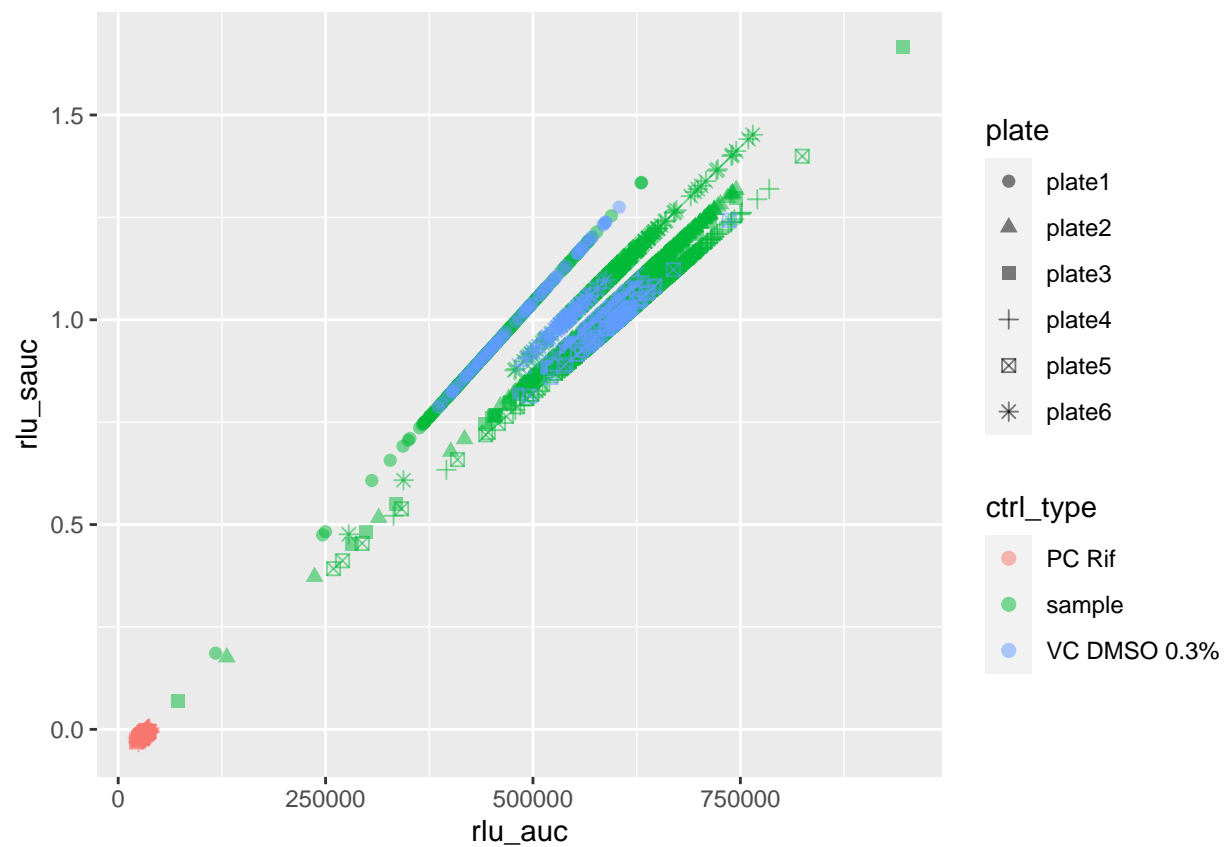


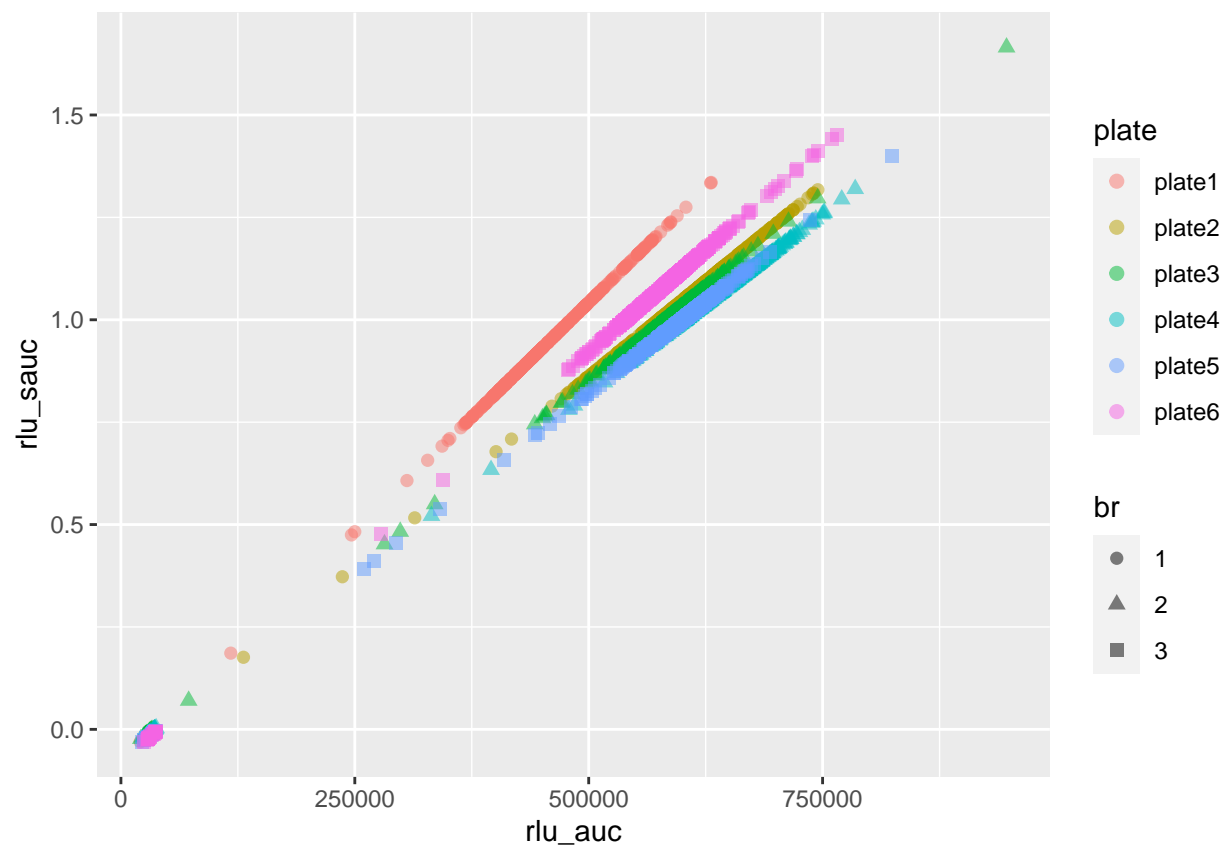
Tt_07 : RLU dose response curve, mean & sd

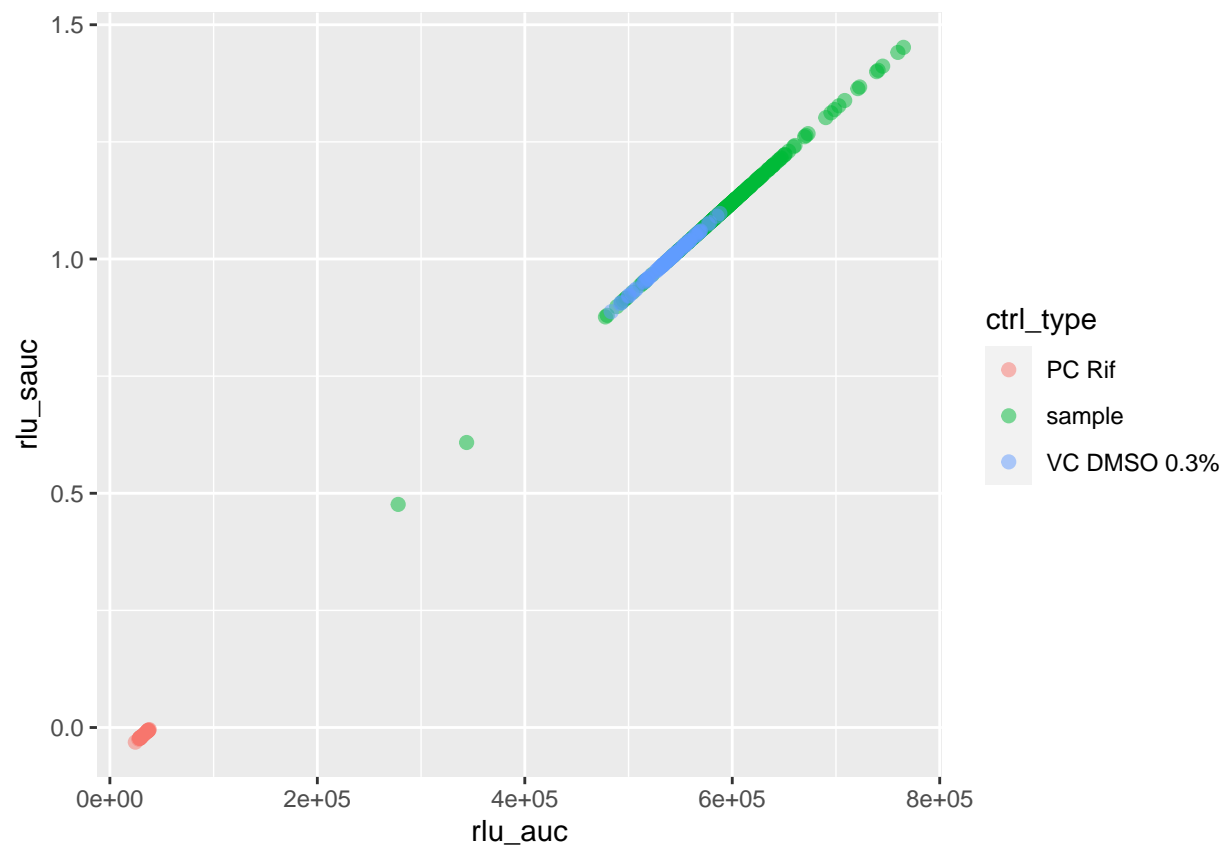


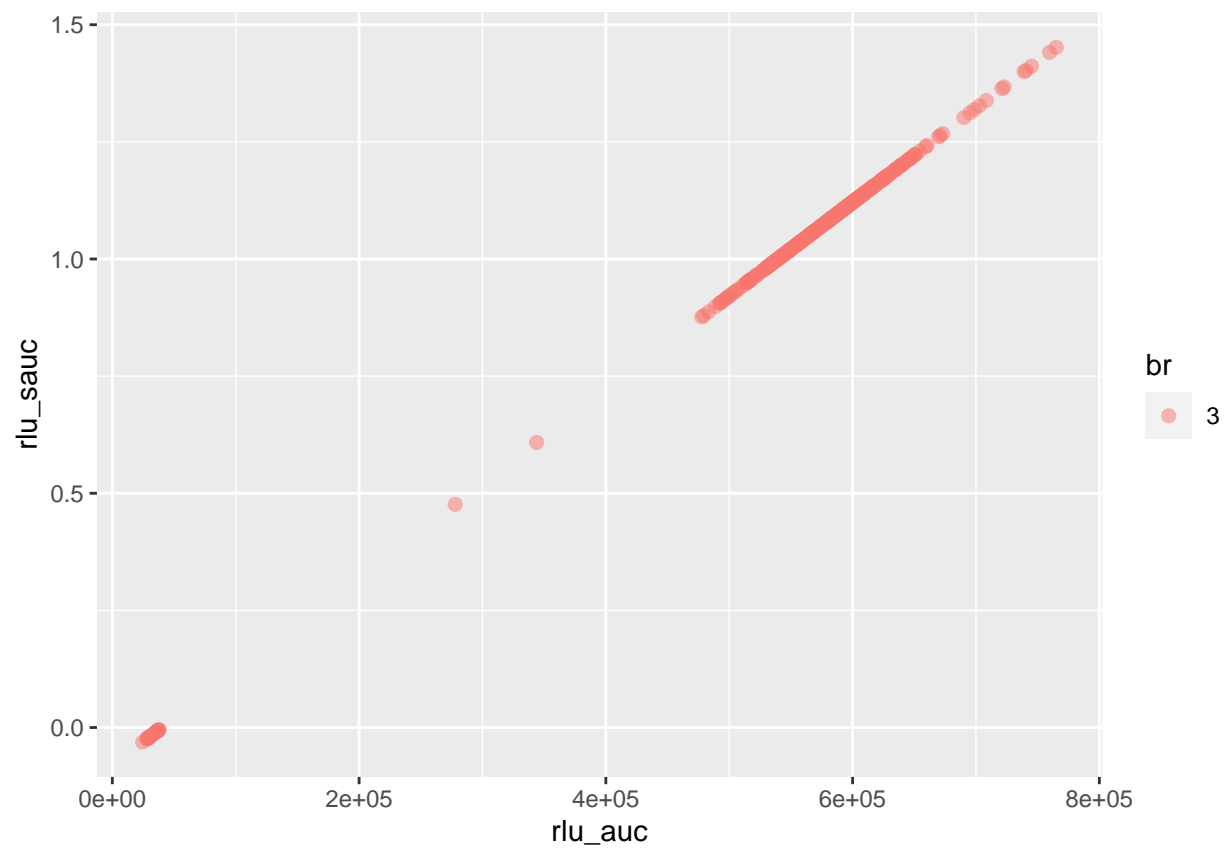
Tt_07 : RLU dose response curve, median & mad

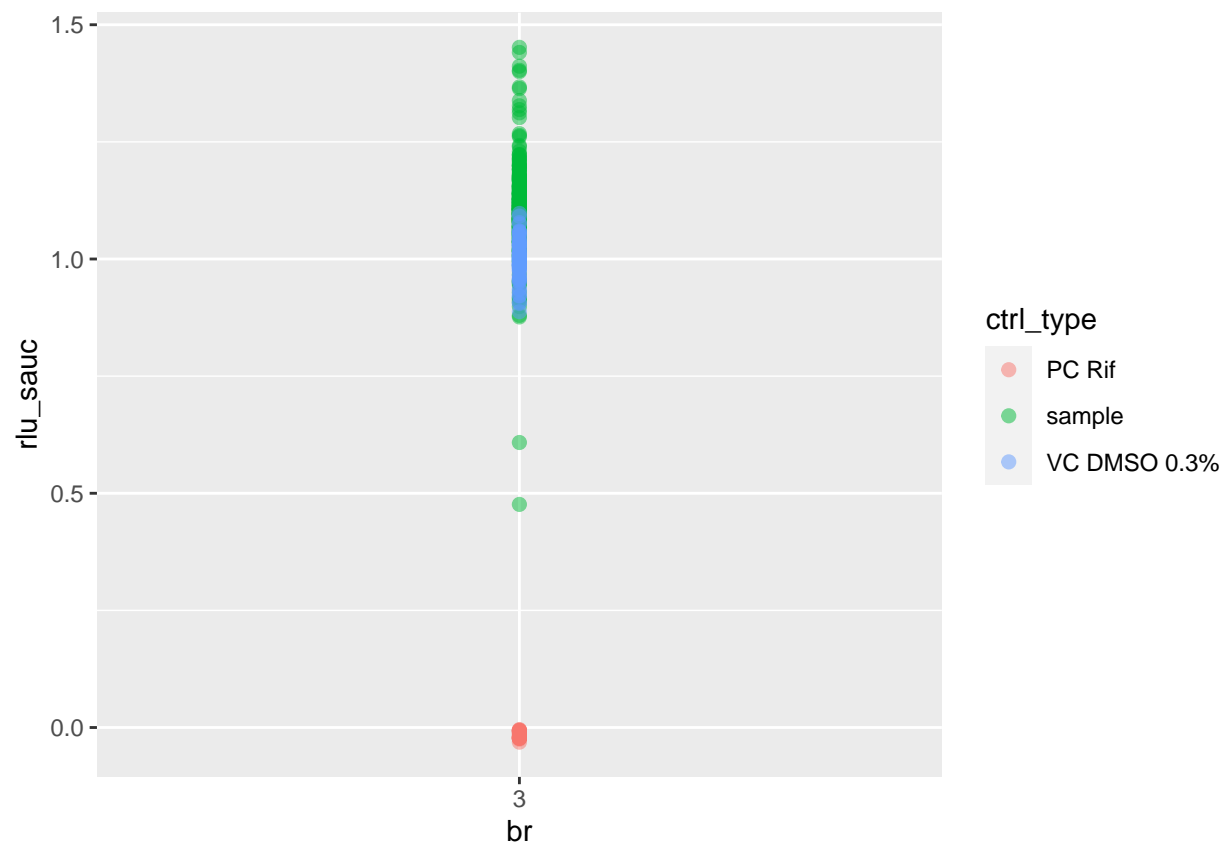












```
## R version 4.3.1 (2023-06-16 ucrt)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 19045)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=English_Switzerland.utf8  LC_CTYPE=English_Switzerland.utf8
## [3] LC_MONETARY=English_Switzerland.utf8 LC_NUMERIC=C
## [5] LC_TIME=English_Switzerland.utf8
##
## time zone: Europe/Zurich
## tzcode source: internal
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] tidyr_1.3.0  dplyr_1.1.3  ggplot2_3.4.4 gplots_3.1.3 readxl_1.4.3
## [6] xlsx_0.6.5
##
## loaded via a namespace (and not attached):
## [1] gtable_0.3.4      compiler_4.3.1    gtools_3.9.4      tidyselect_1.2.0
## [5] bitops_1.0-7      scales_1.2.1      yaml_2.3.7         fastmap_1.1.1
## [9] R6_2.5.1          labeling_0.4.3    generics_0.1.3     knitr_1.44
```

## [13]	tibble_3.2.1	munSELL_0.5.0	pillar_1.9.0	rlang_1.1.1
## [17]	utf8_1.2.3	xfun_0.40	caTools_1.18.2	cli_3.6.1
## [21]	withr_2.5.1	magrittr_2.0.3	digest_0.6.33	grid_4.3.1
## [25]	rstudioapi_0.15.0	rJava_1.0-6	lifecycle_1.0.3	vctrs_0.6.3
## [29]	KernSmooth_2.23-21	evaluate_0.22	glue_1.6.2	farver_2.1.1
## [33]	cellranger_1.1.0	xlsxjars_0.6.1	fansi_1.0.5	colorspace_2.1-0
## [37]	rmarkdown_2.25	purrr_1.0.2	tools_4.3.1	pkgconfig_2.0.3
## [41]	htmltools_0.5.6.1			