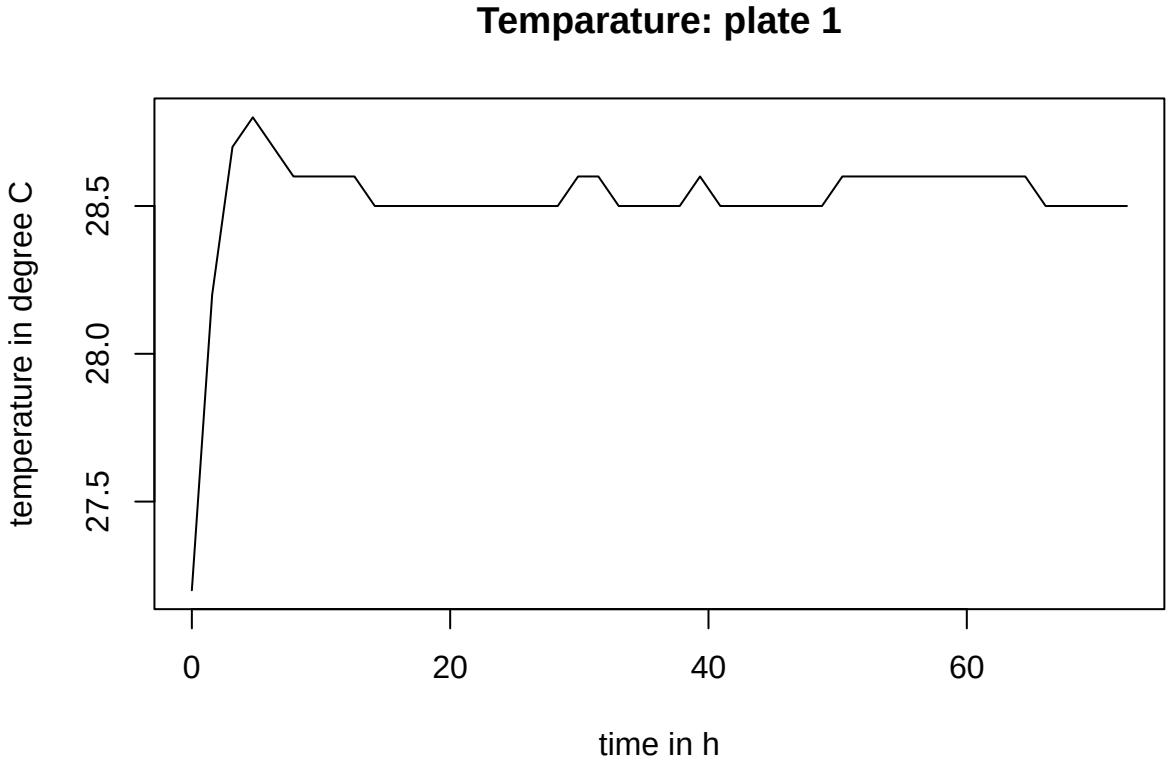
Normalized residual growth for experiment XYZ

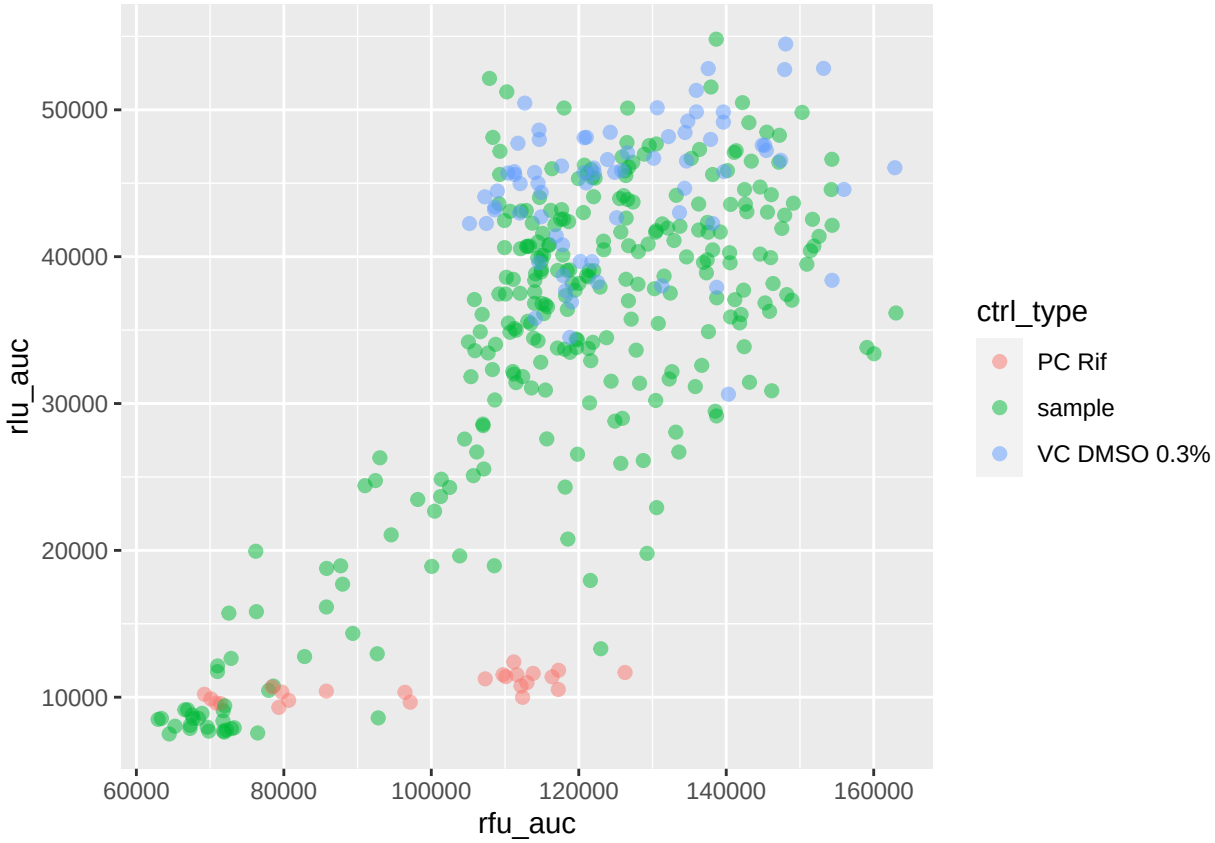
JN

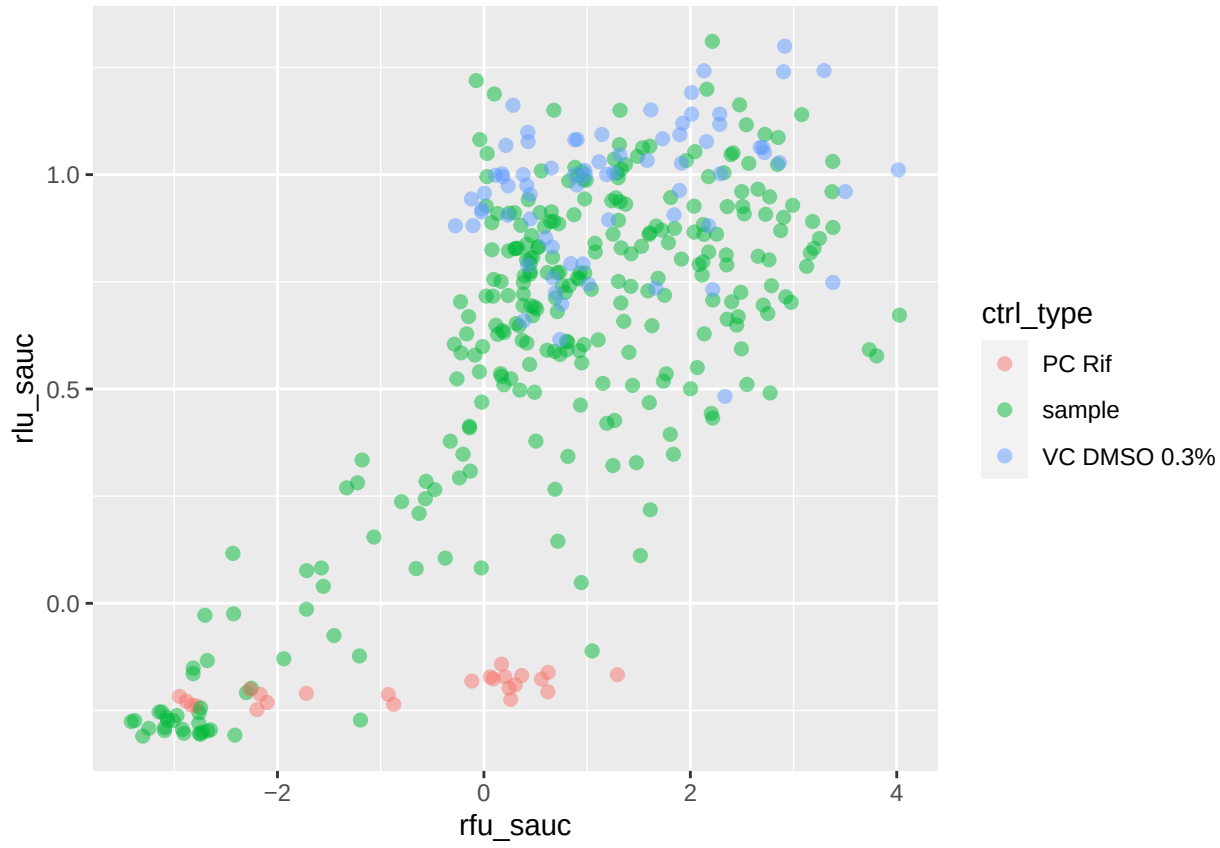
Sat Feb 17 13:20:51 2024

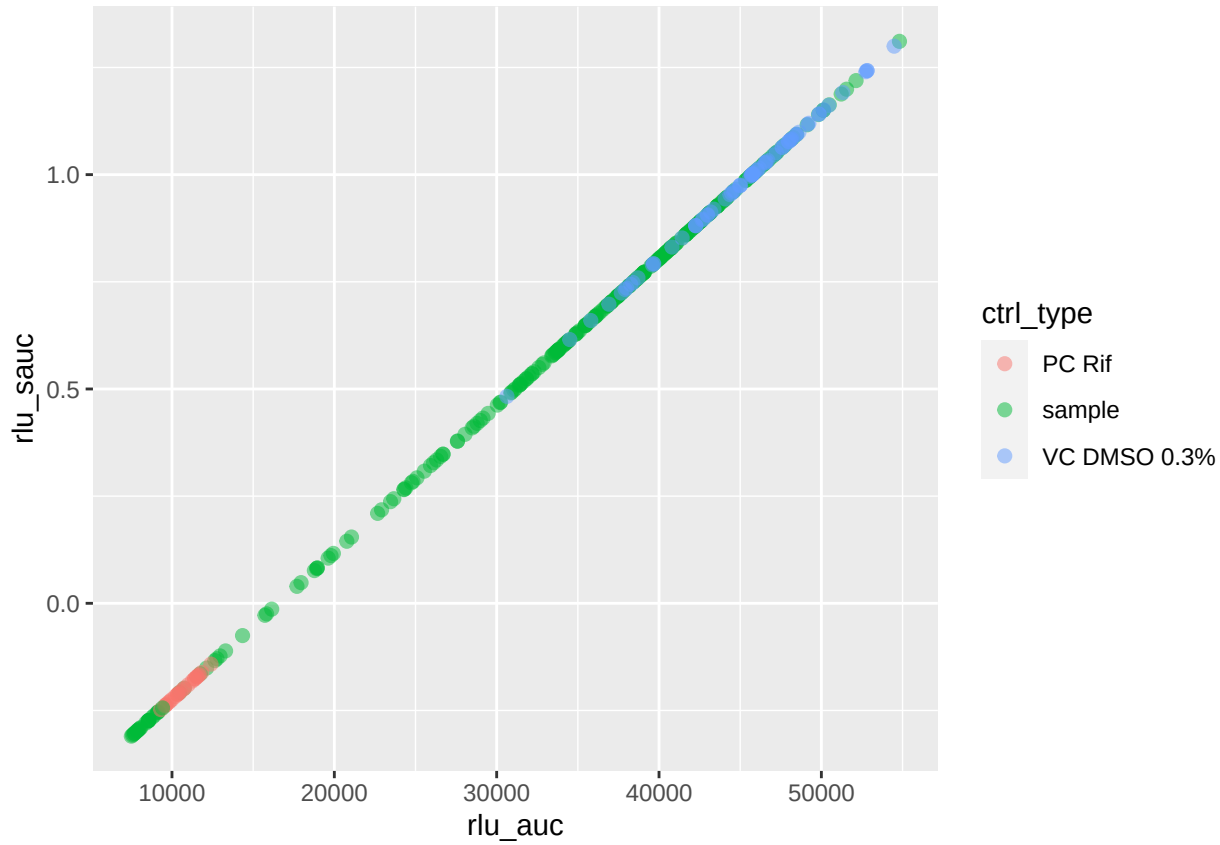
```
## [1] "all files in the directory with the absolute path: "
## [2] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate02.xlsx"
## [3] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate03.xlsx"
## [4] "C:/Users/jahn_/Desktop/analyses/infection_demonstration_dataset/input/plate04.xlsx"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

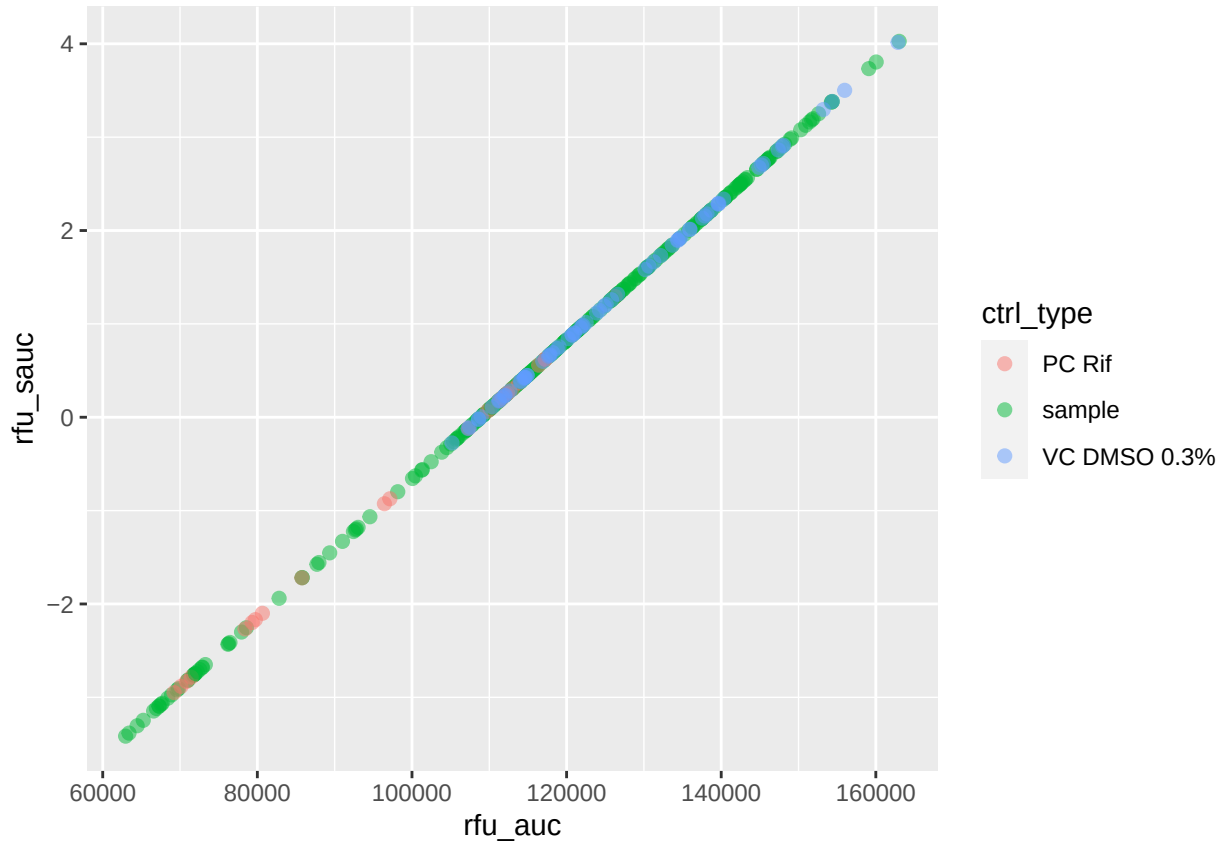


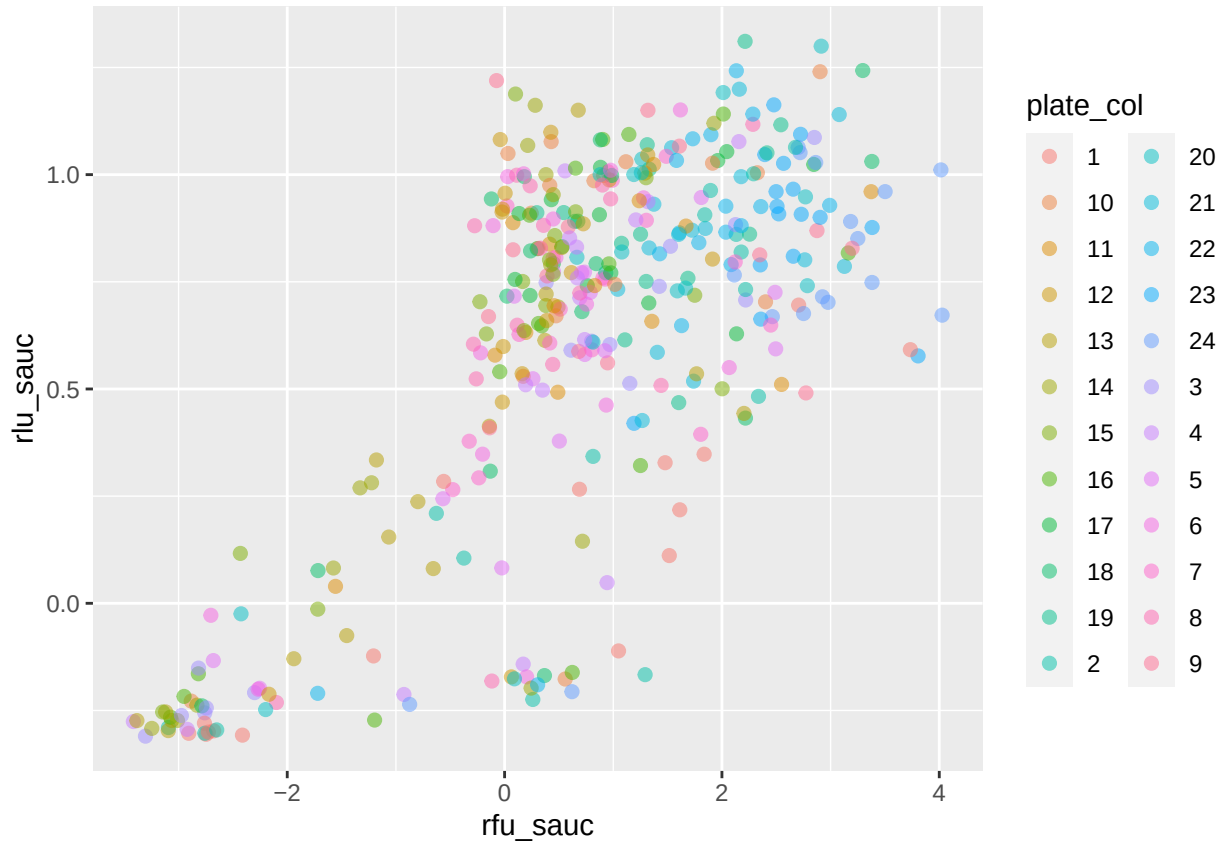
```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate02.xlsx, biorep 1 : "
## [1] 0.57
```

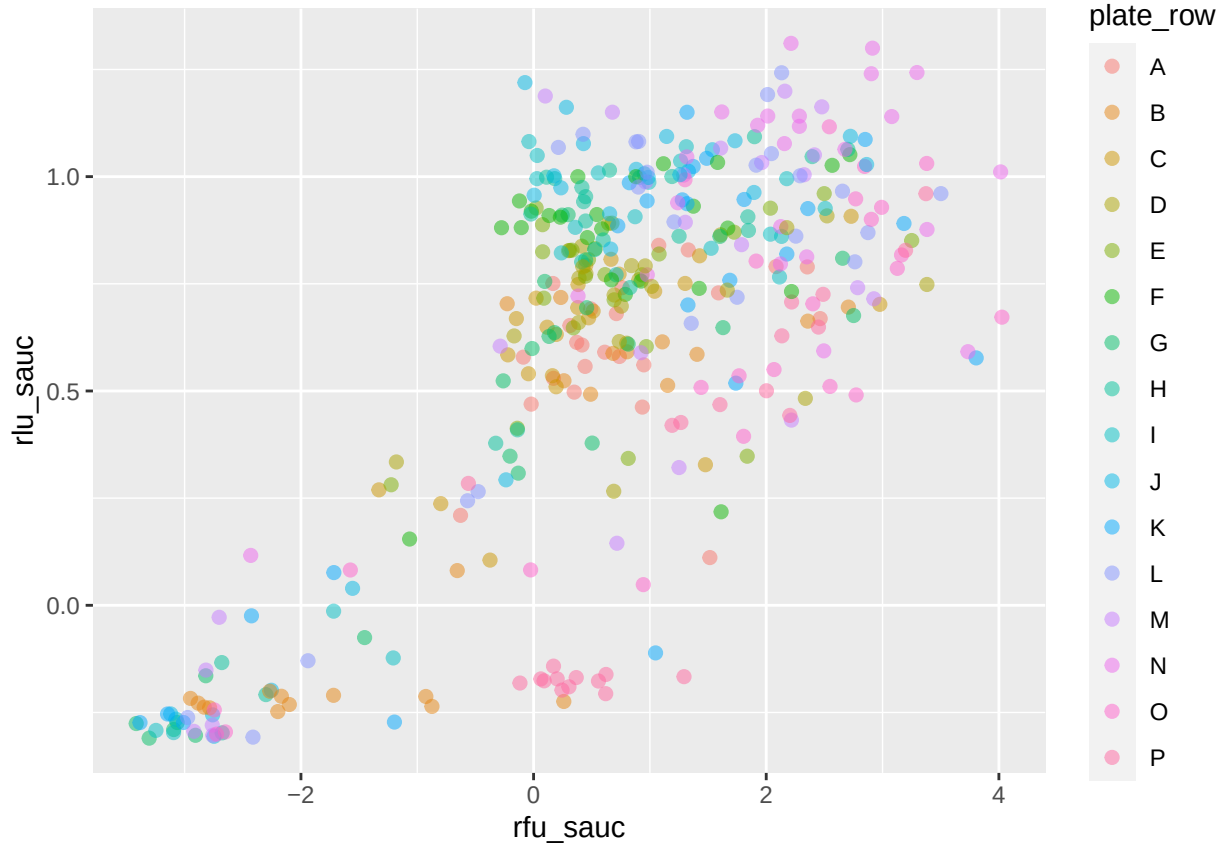



1.0
0.5
0.0
rlu_sauc
−2
0
2
4
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

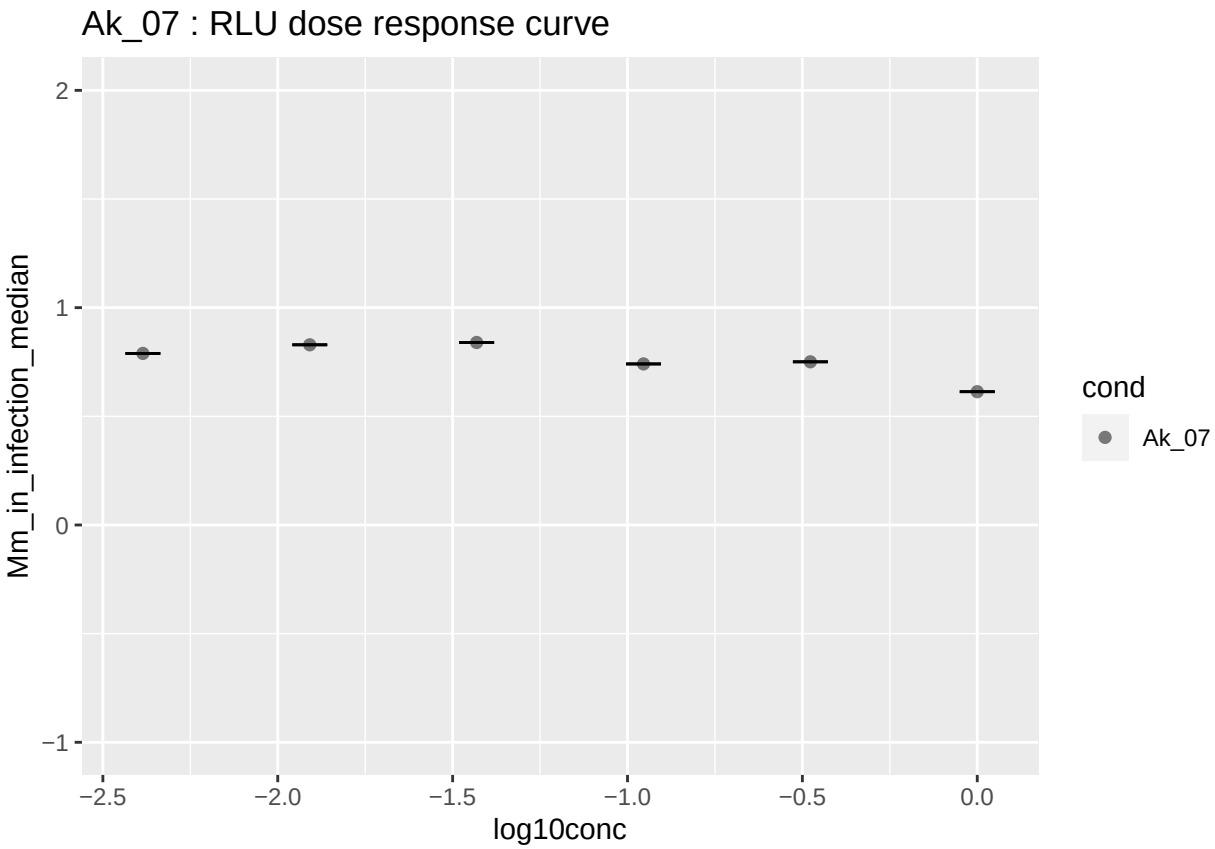

1.0
0.5
0.0
rlu_sauc
10000
20000
30000
40000
50000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

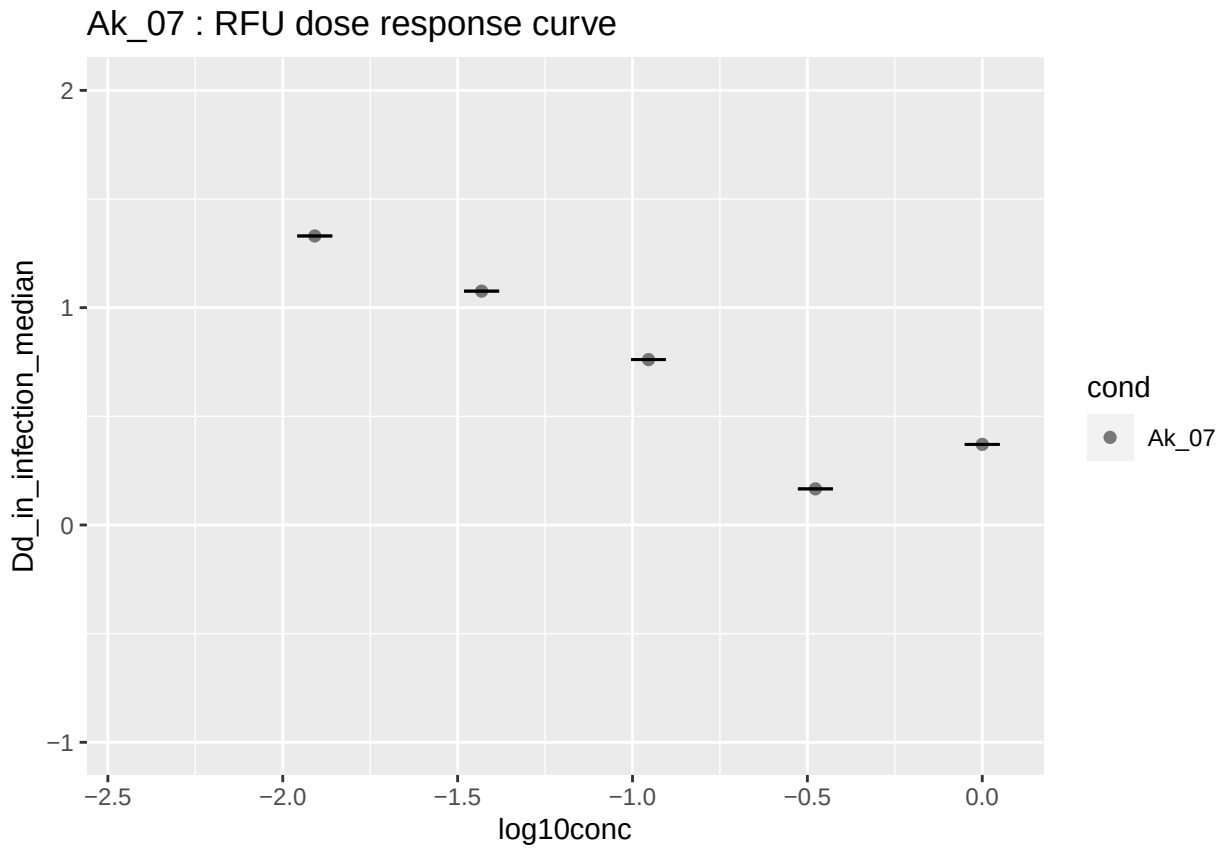

4
2
0
−2
rfu_sauc
60000
80000
100000
120000
140000
160000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

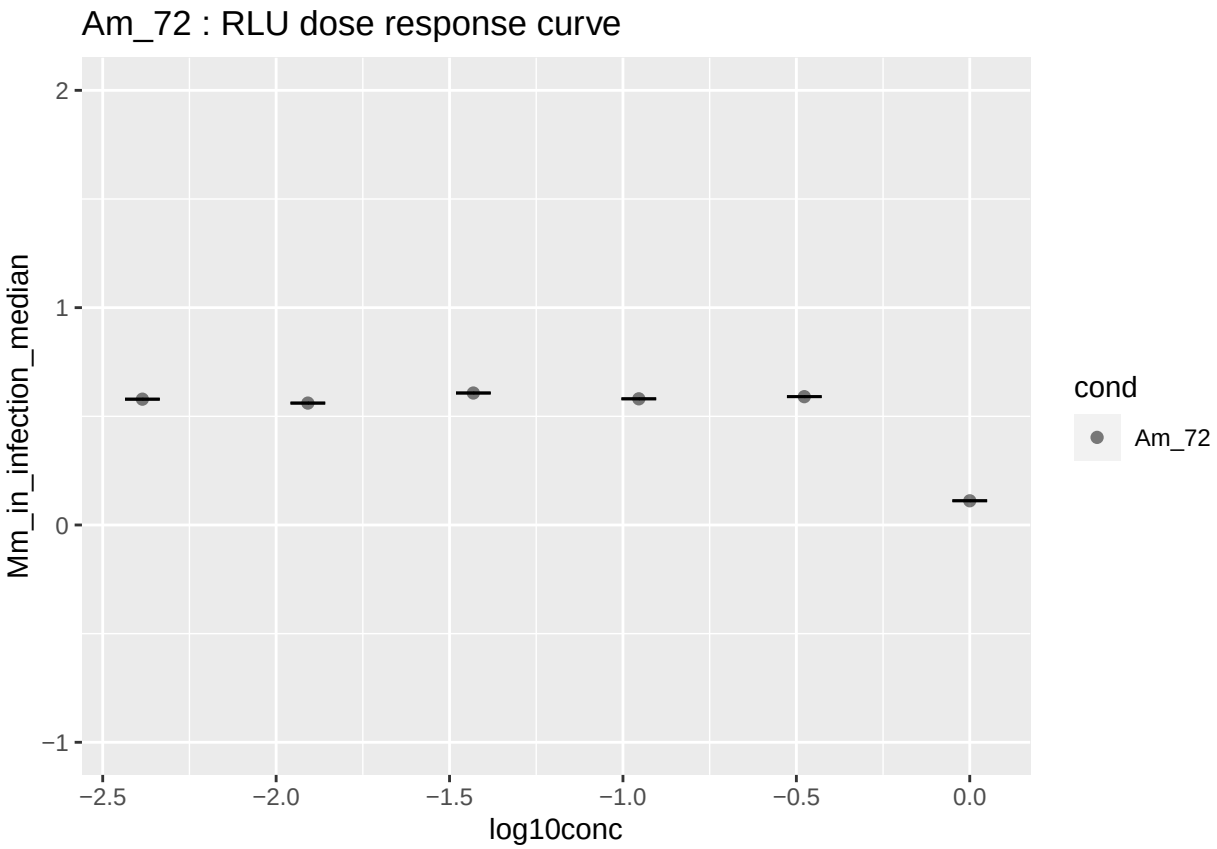

rlu_sauc
1.0
0.5
0.0
−2
0
2
4
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

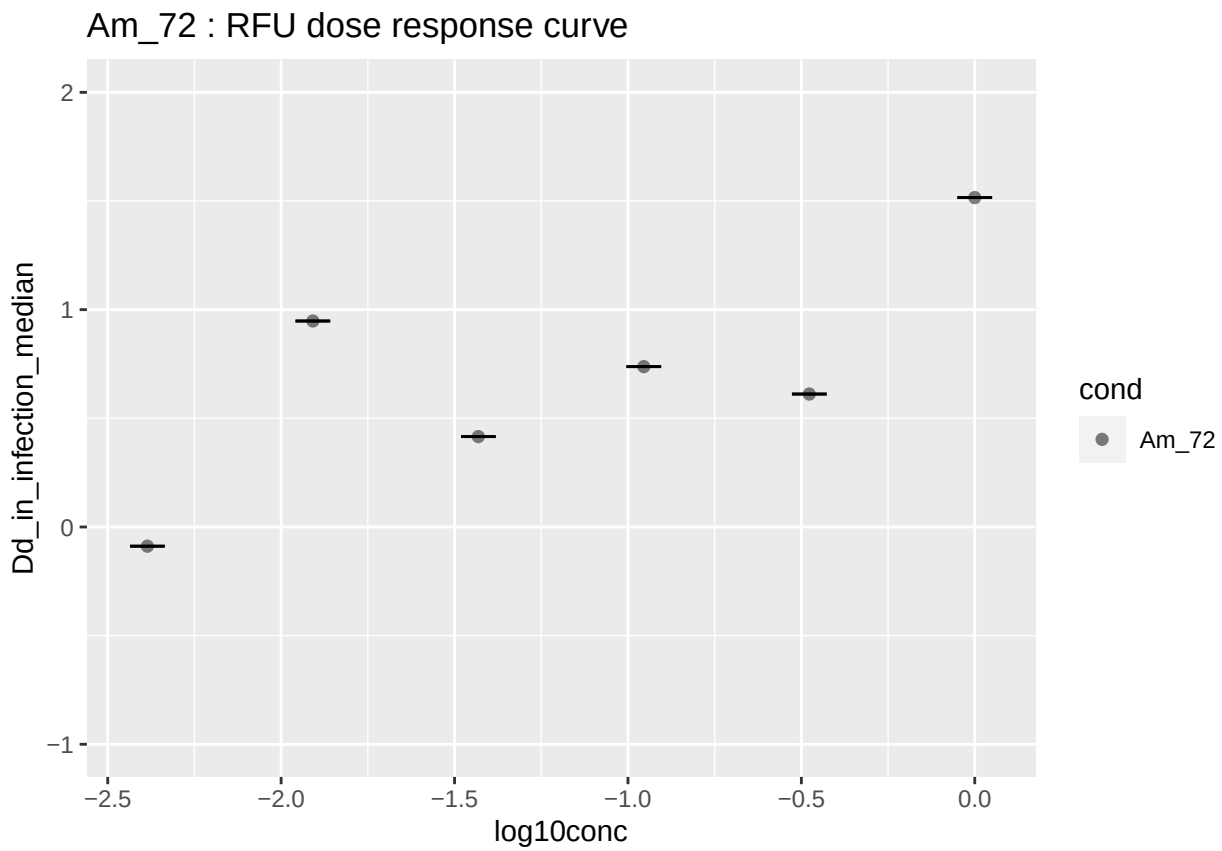


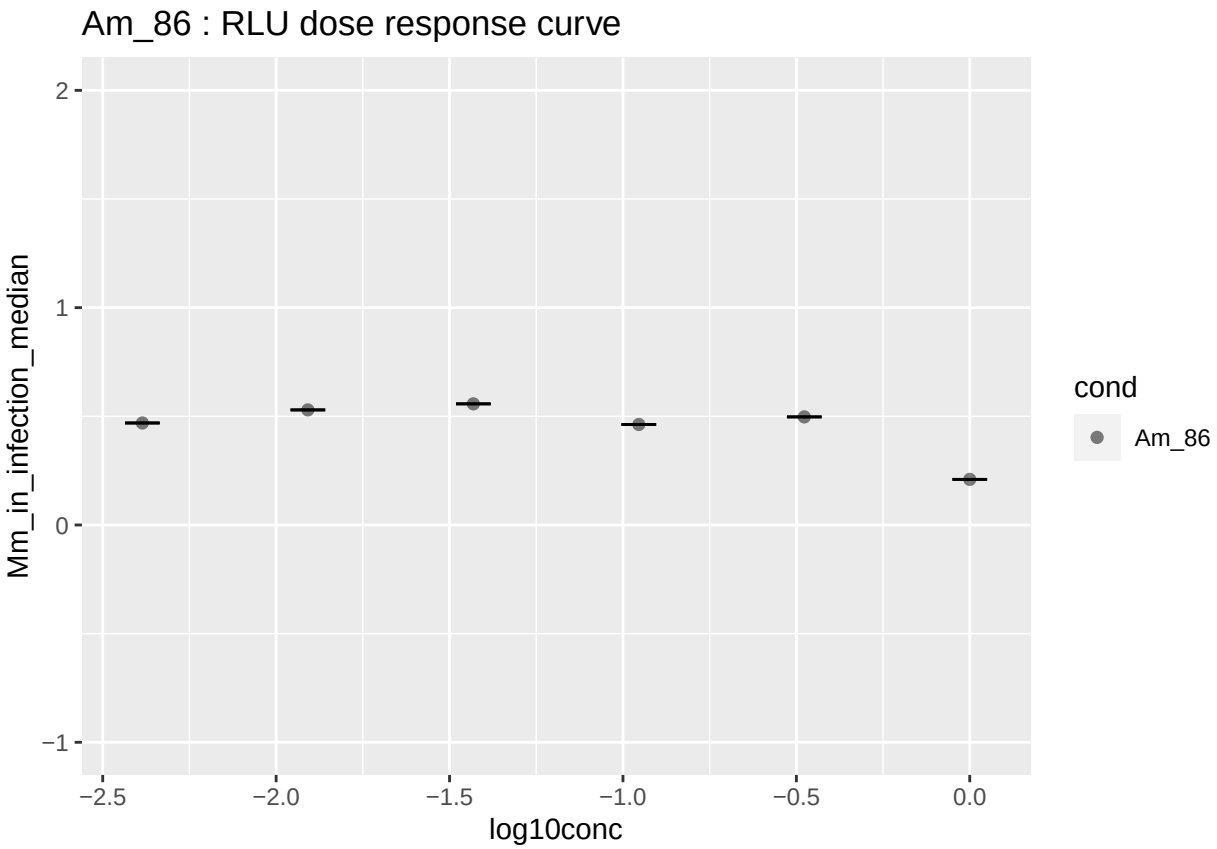

```
## [1] "Dose response curves over all bioreps within this plate"
```

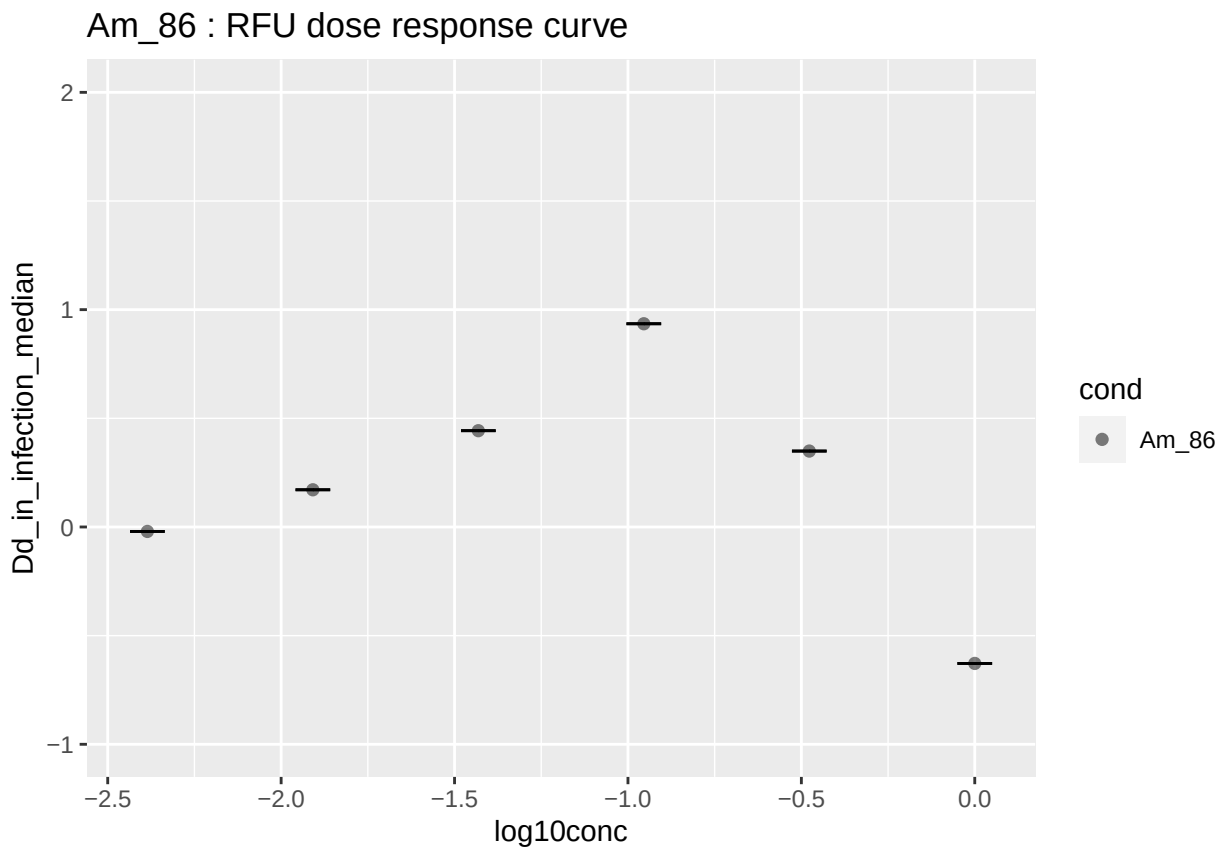

Ak_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

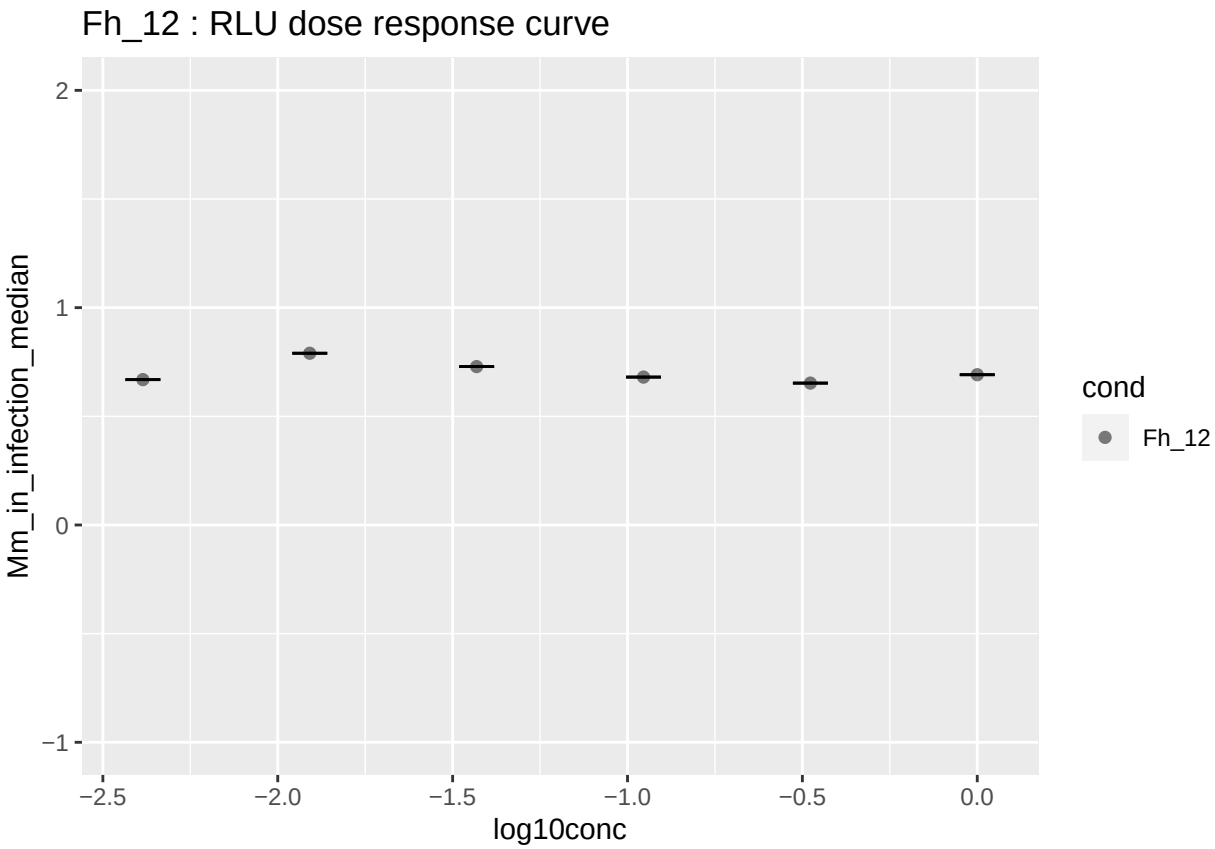

Ak_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

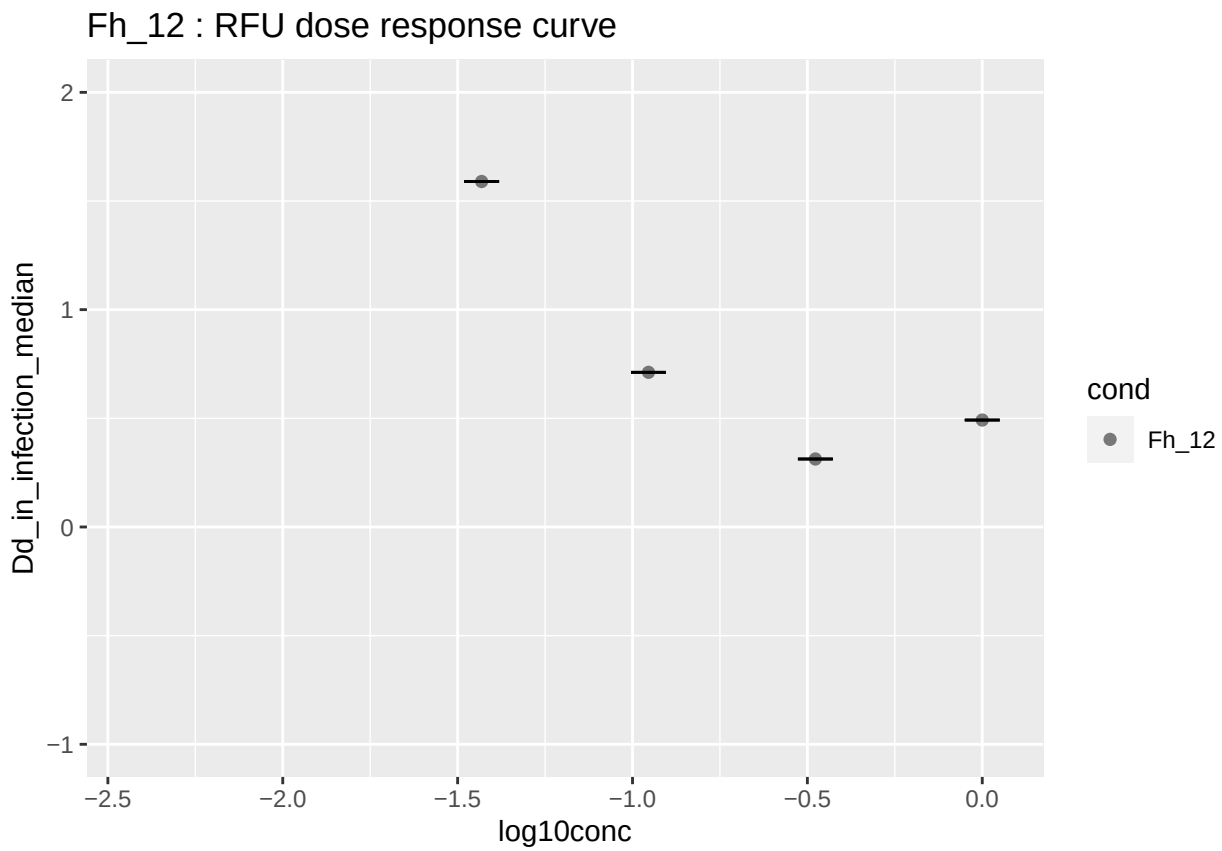

Am_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

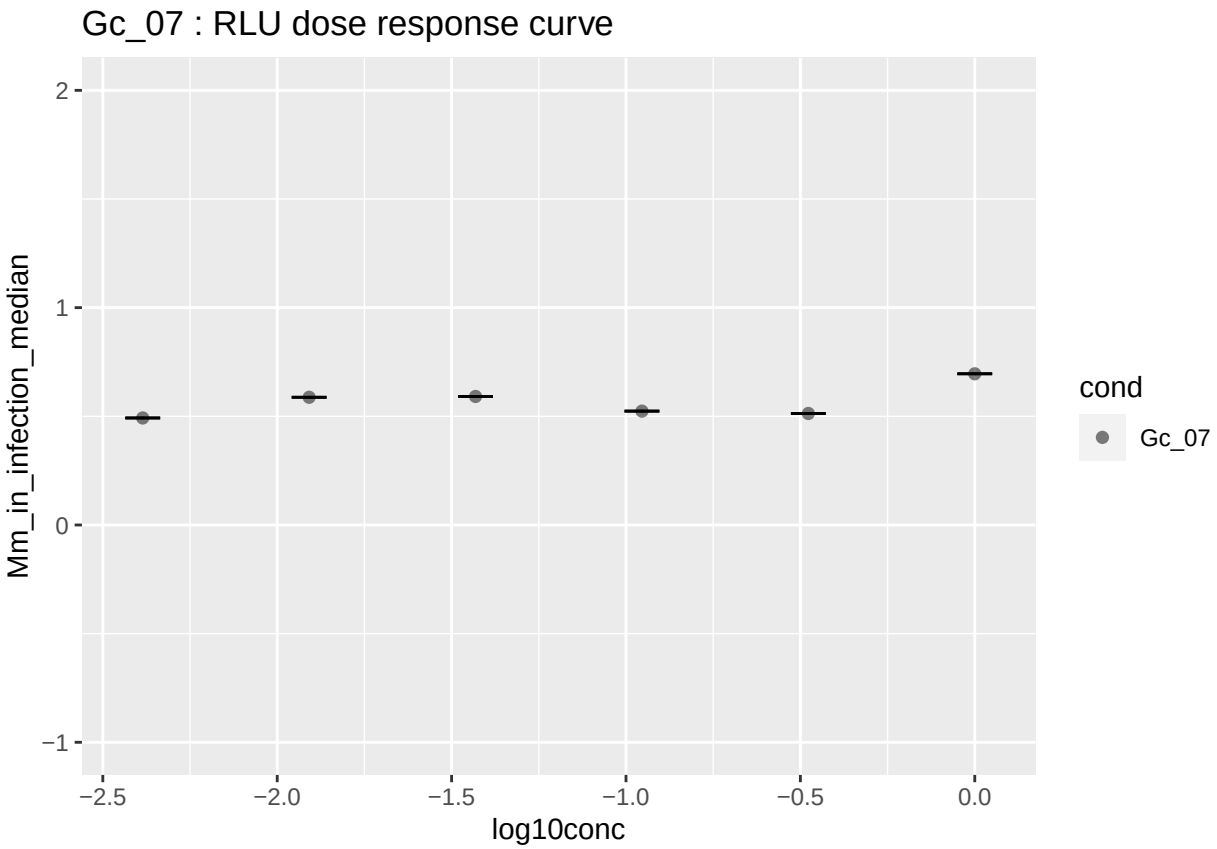

Am_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

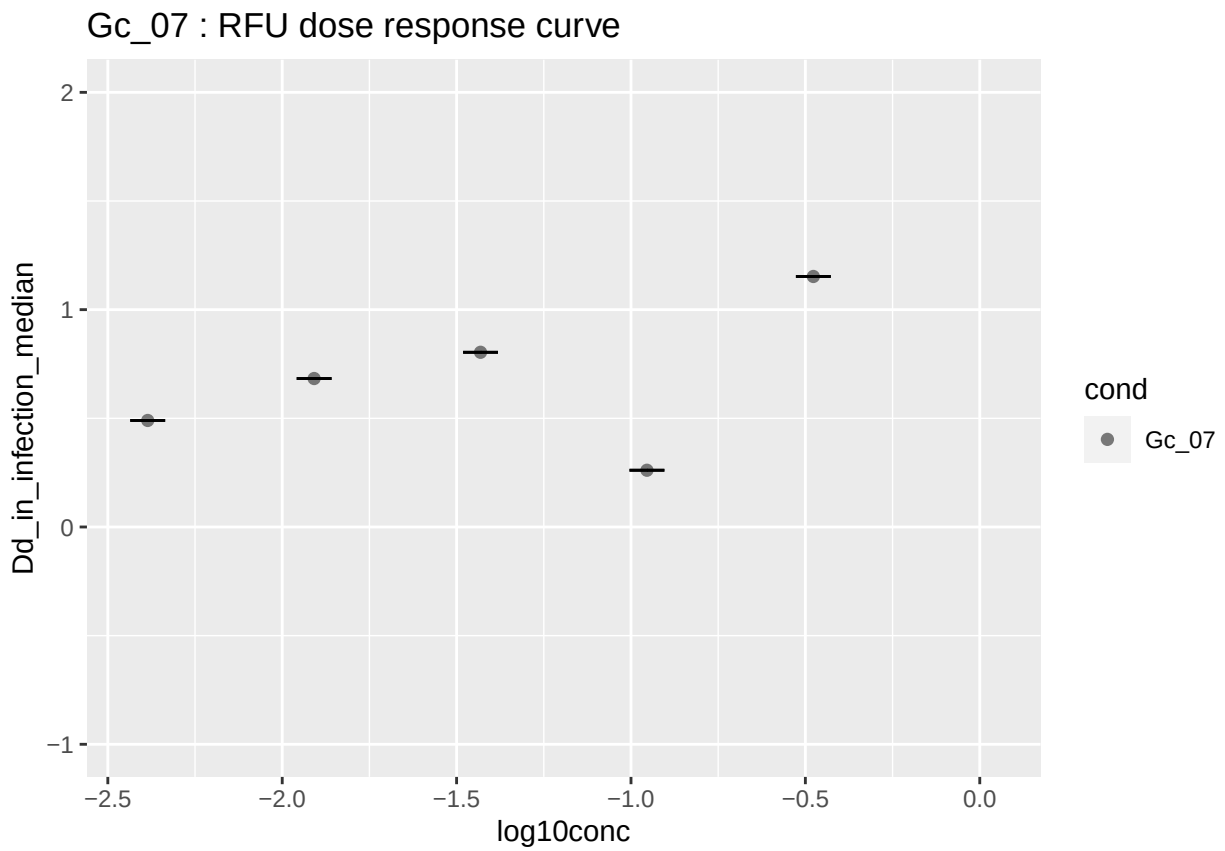

Am_86 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

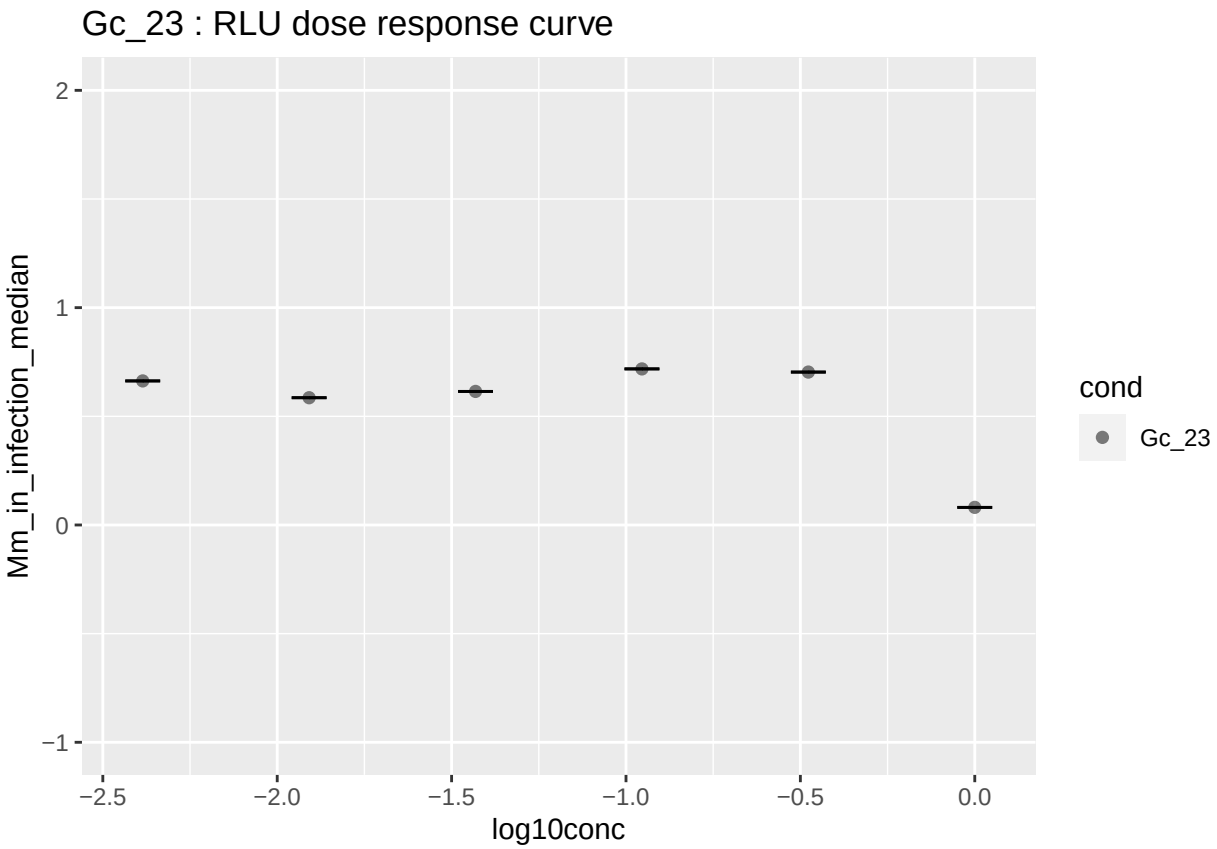

Am_86 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

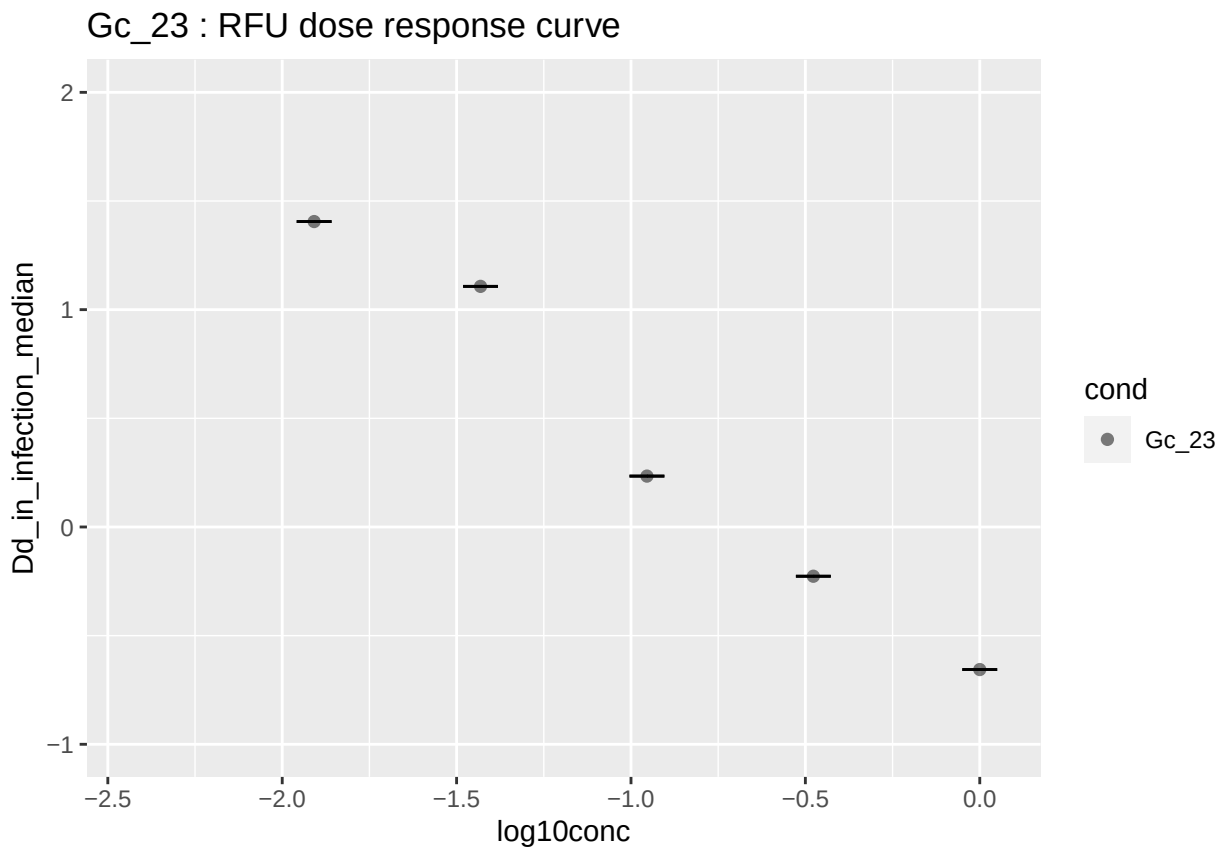

Fh_12 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

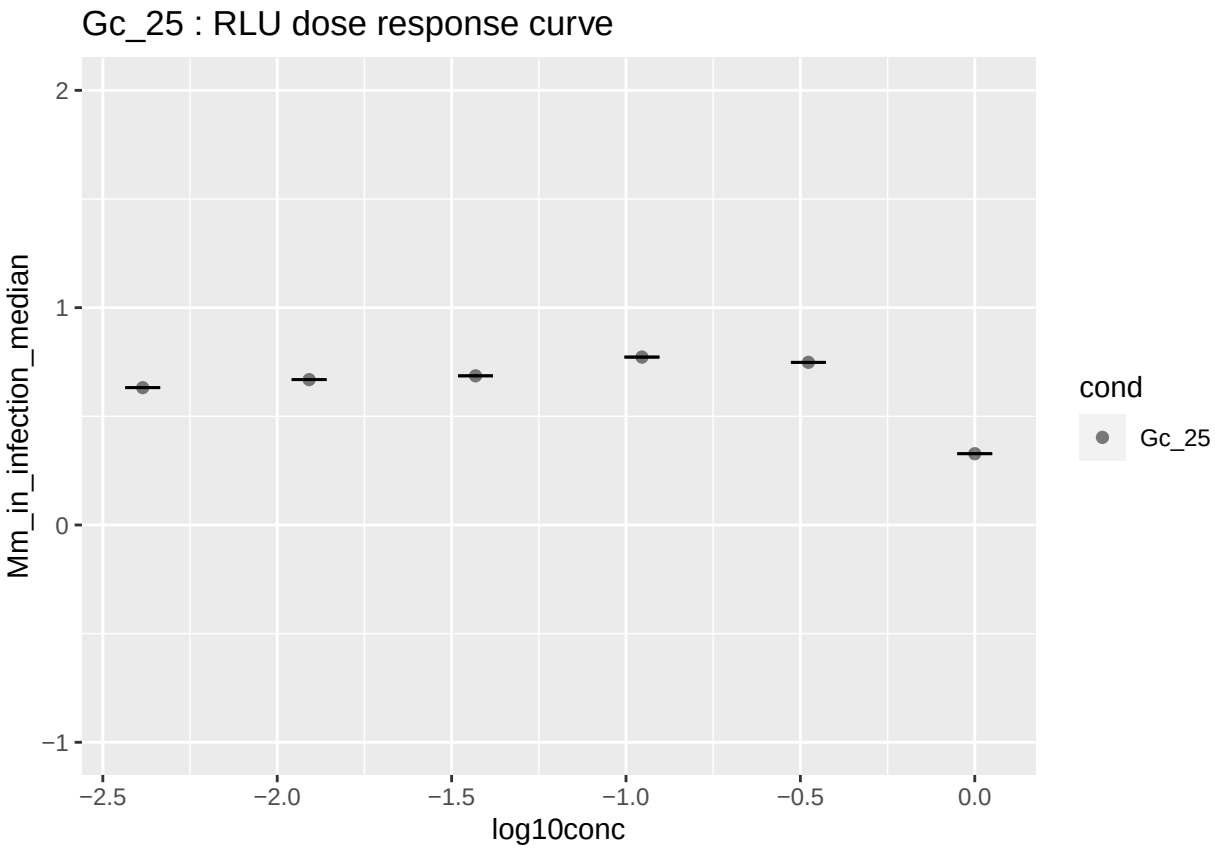

Fh_12 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

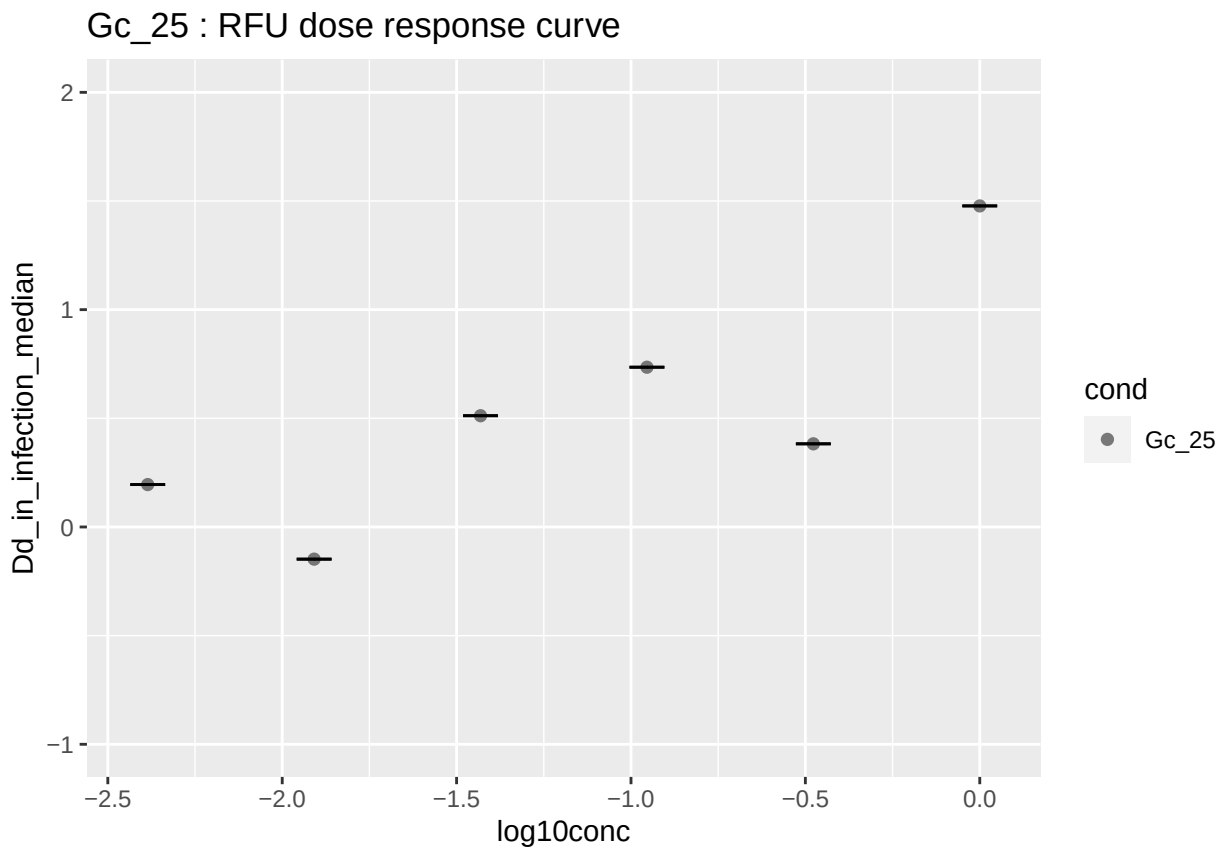

Gc_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

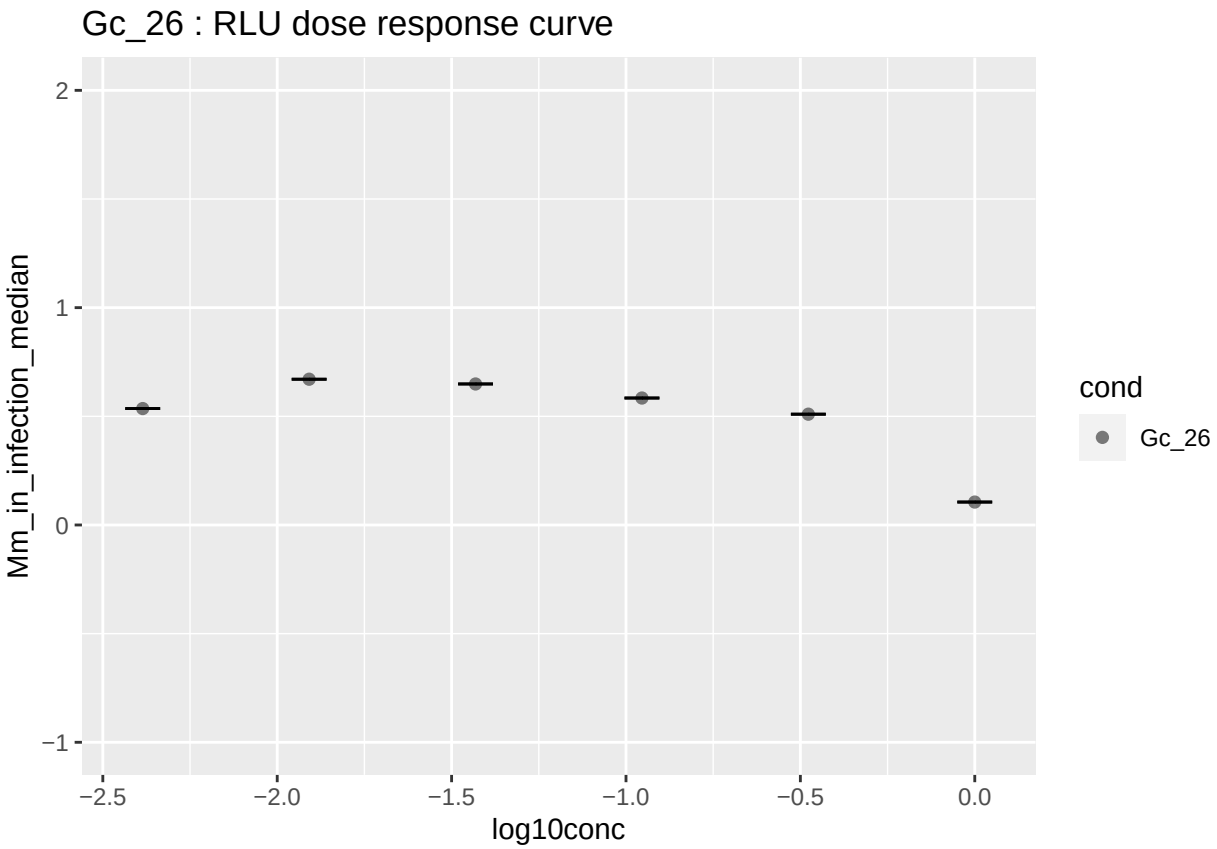

Gc_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

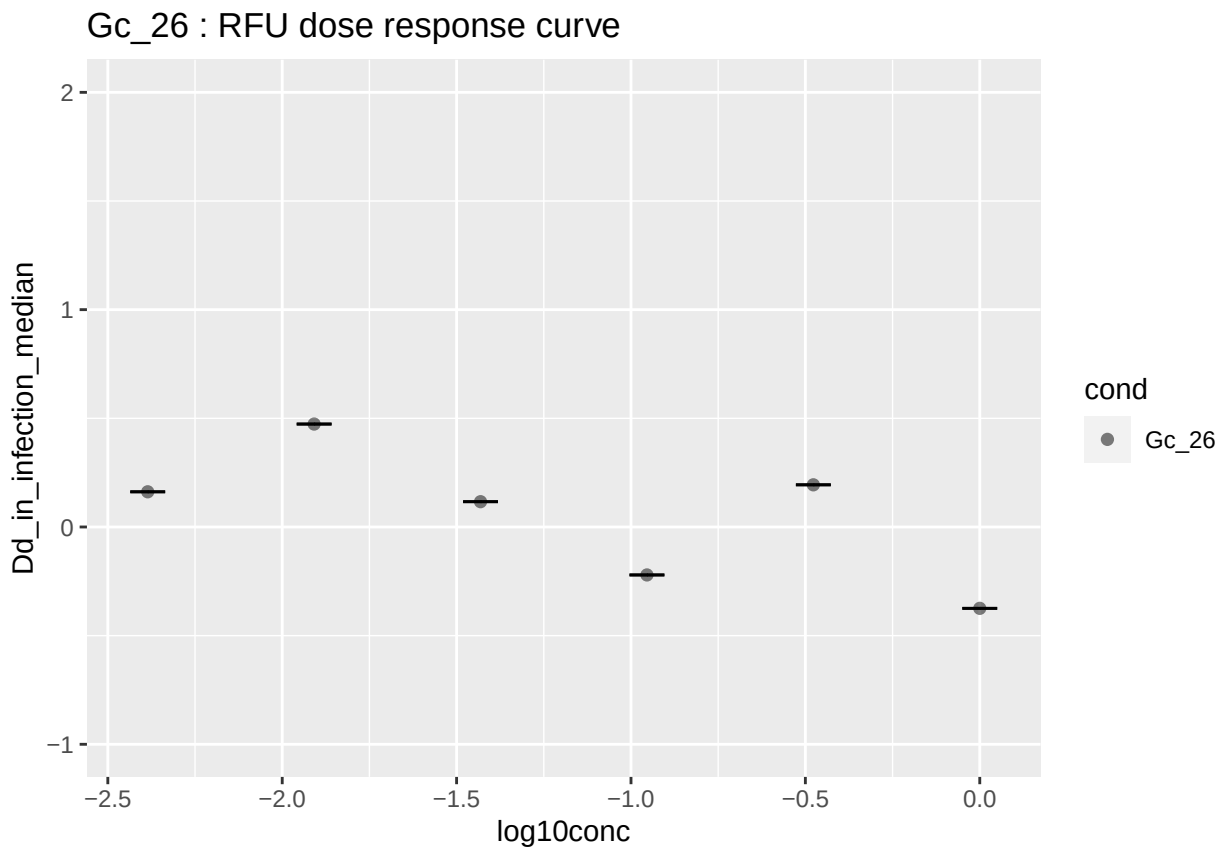

Gc_23 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

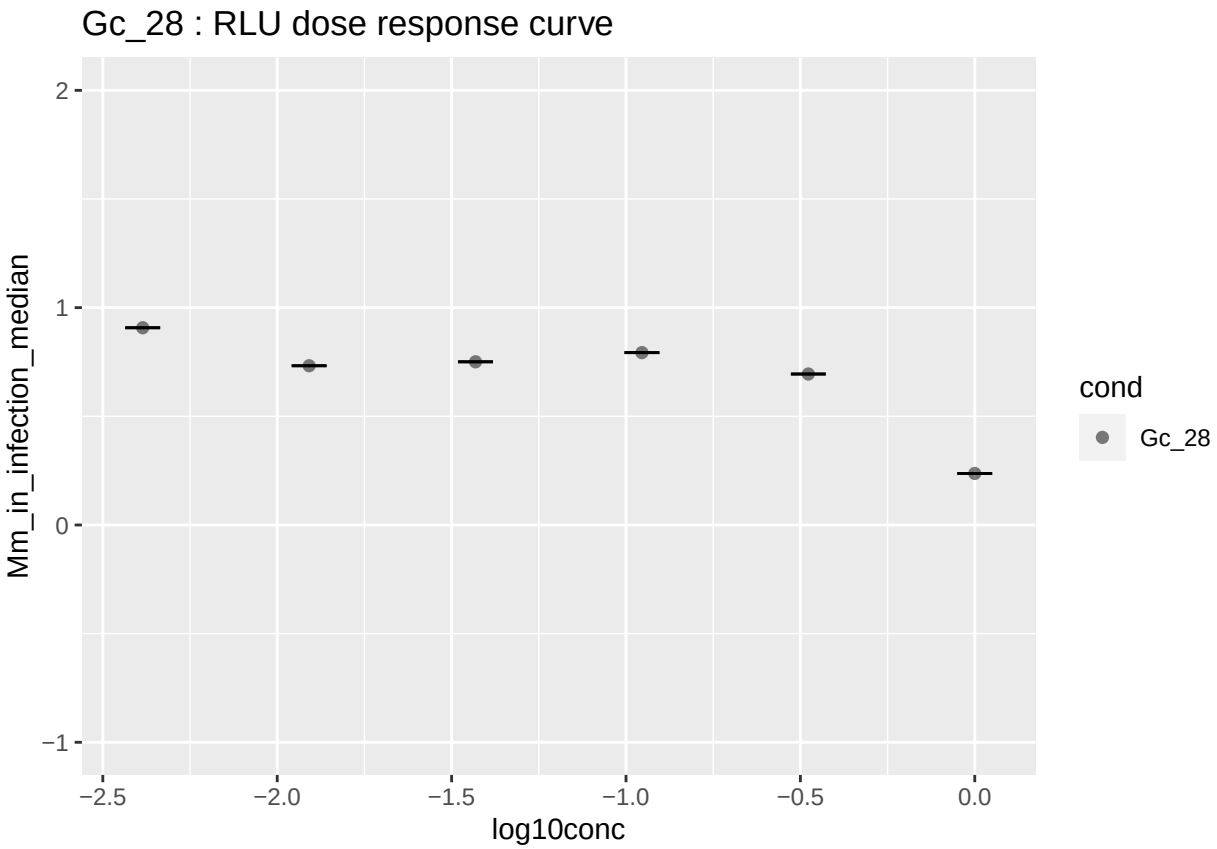

Gc_23 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

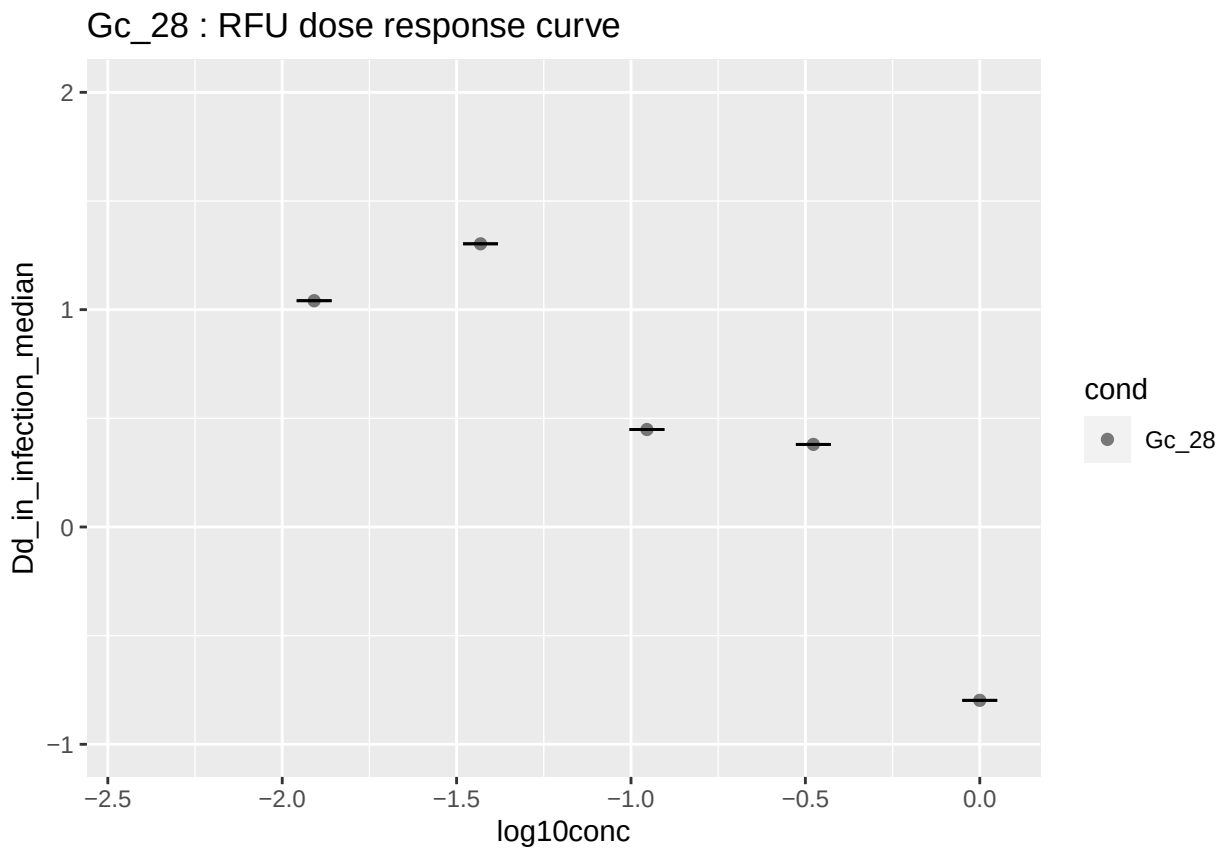

Gc_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

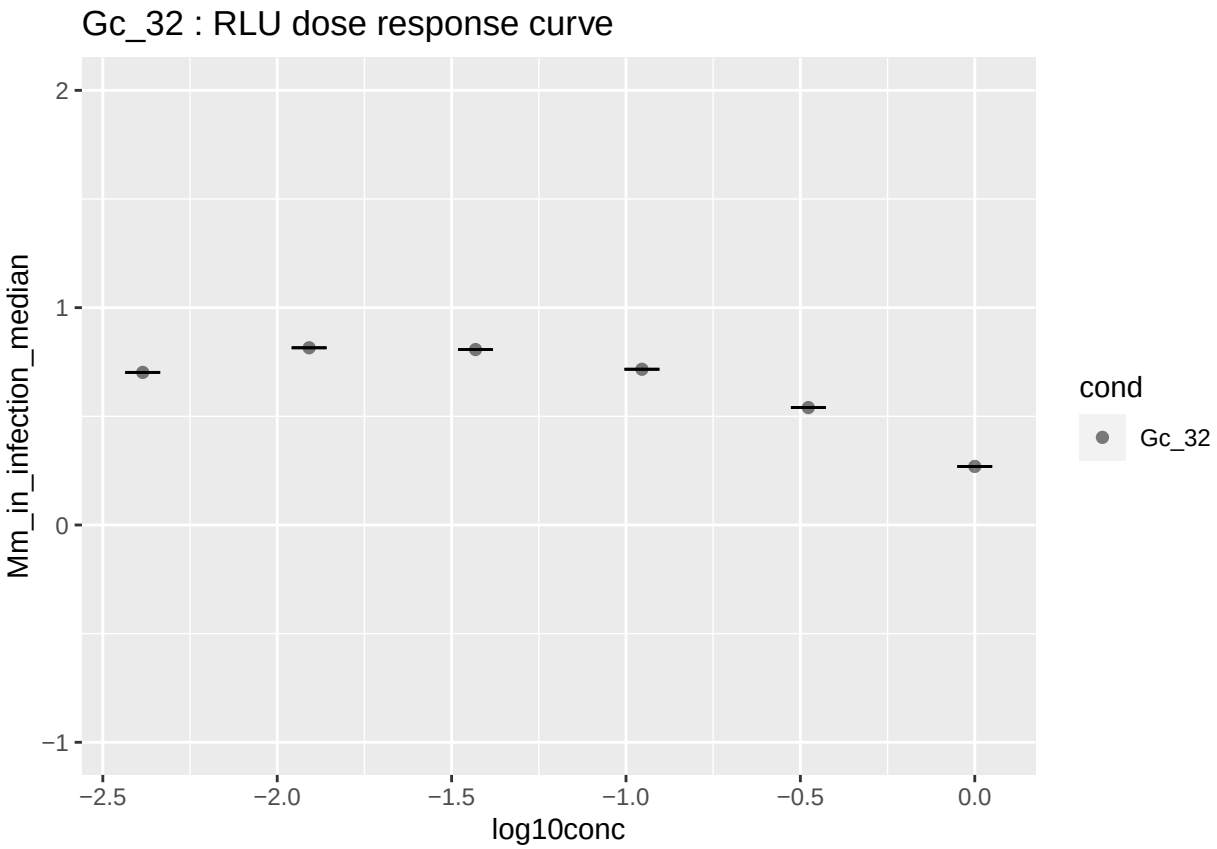

Gc_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

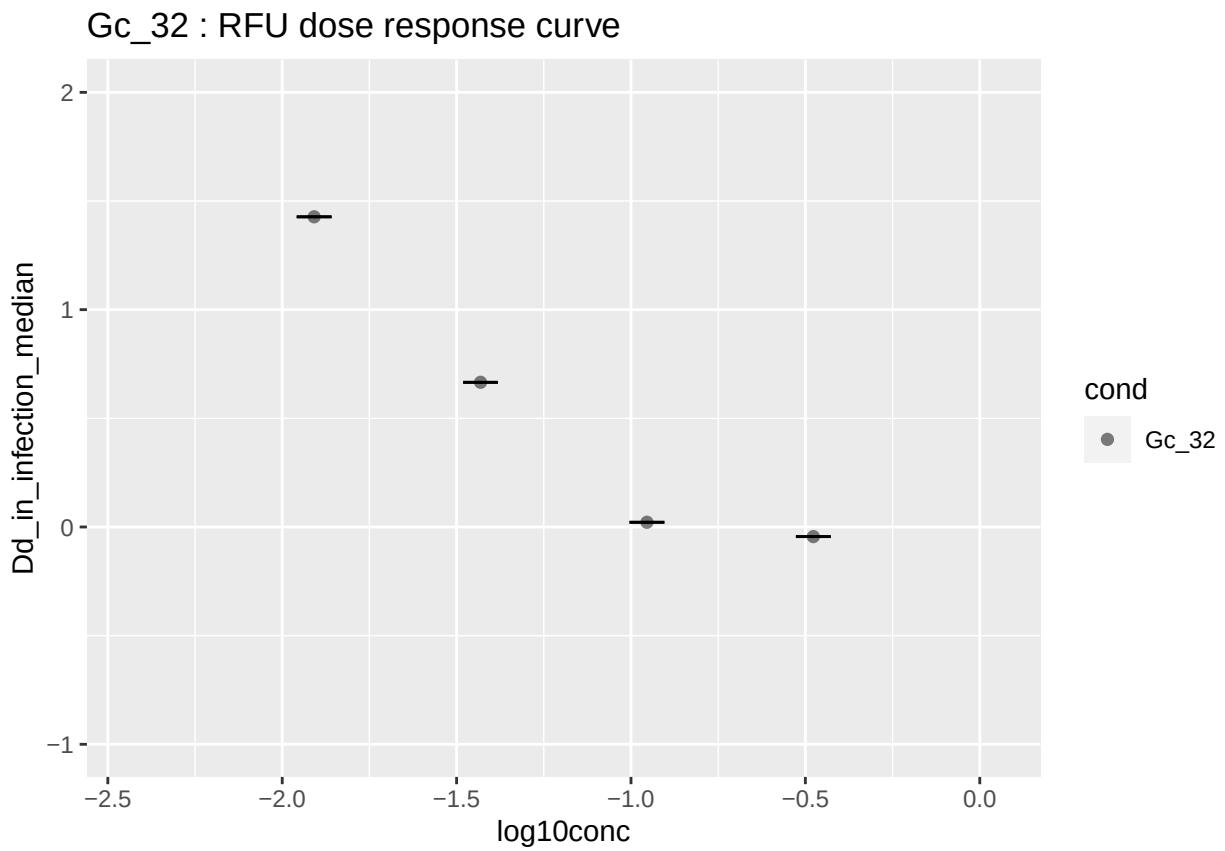

Gc_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

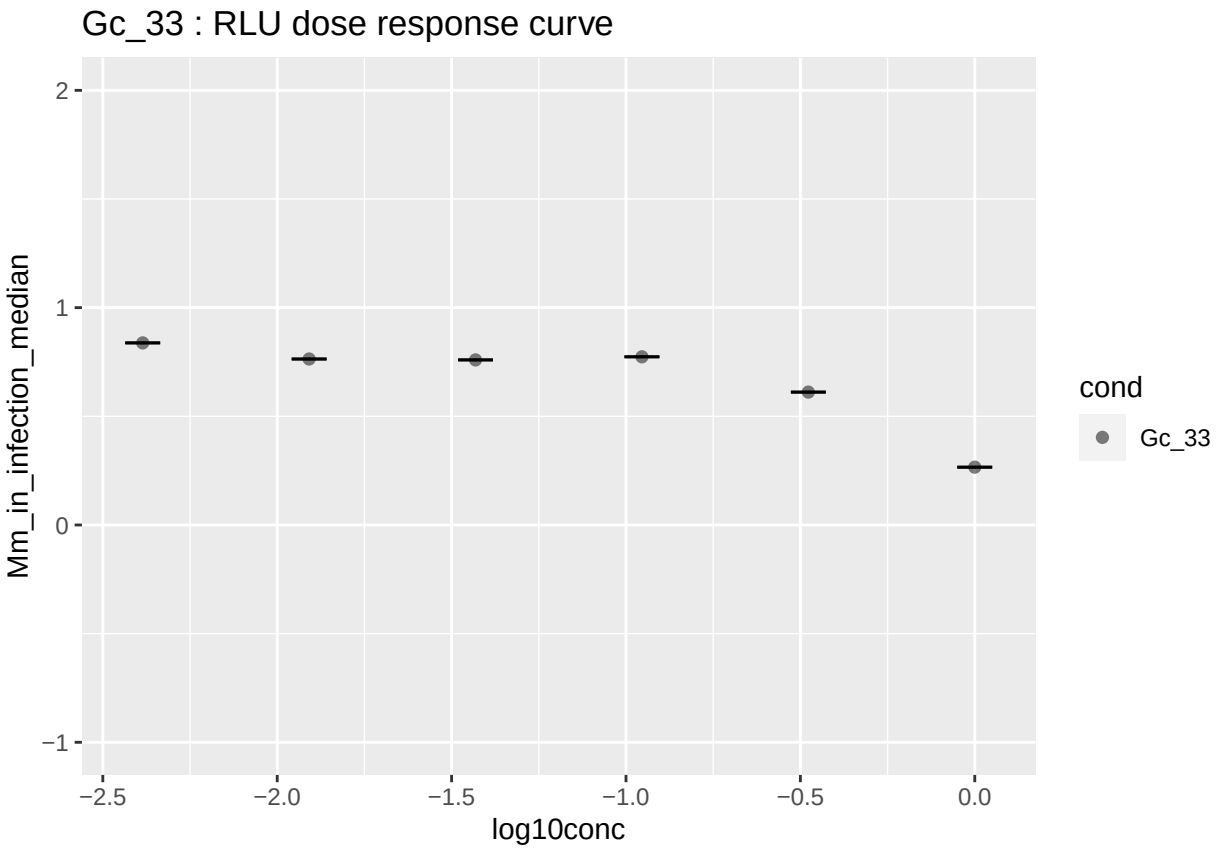

Gc_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

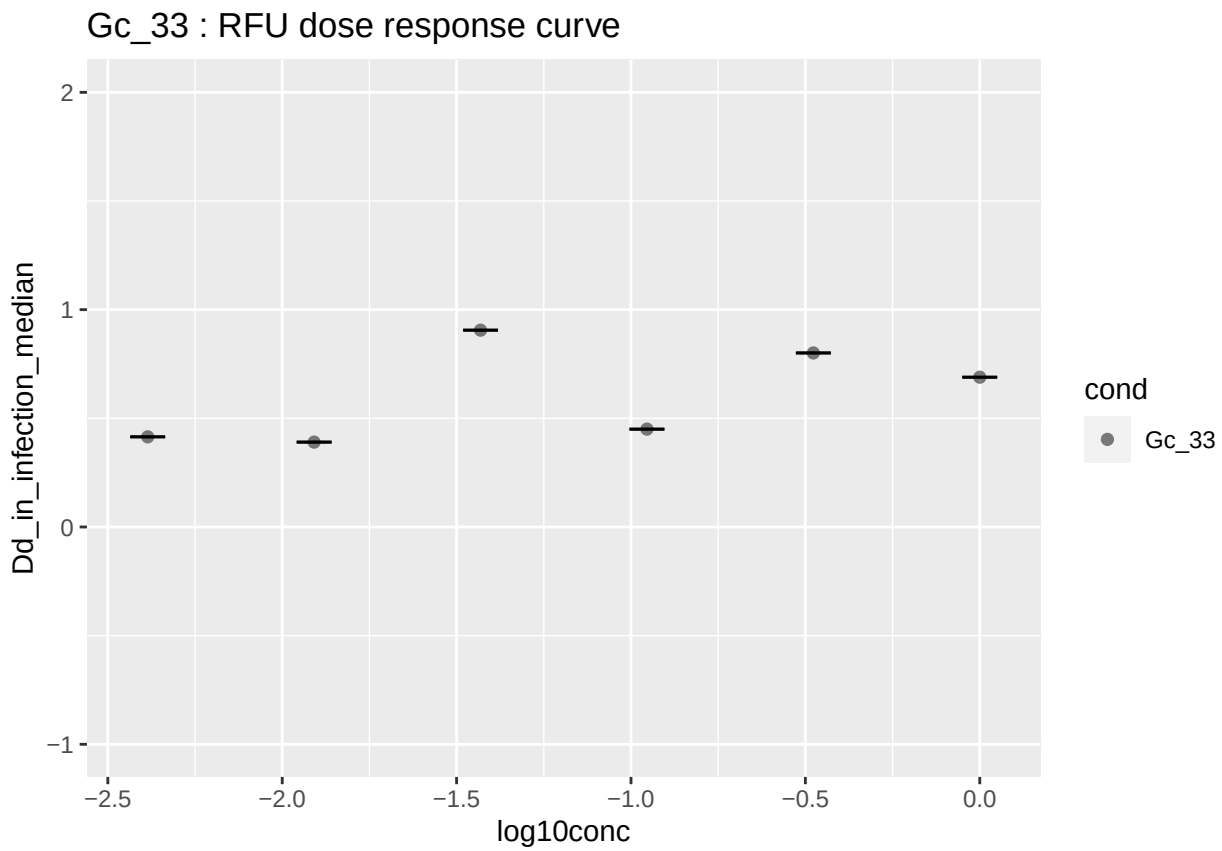

Gc_28 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

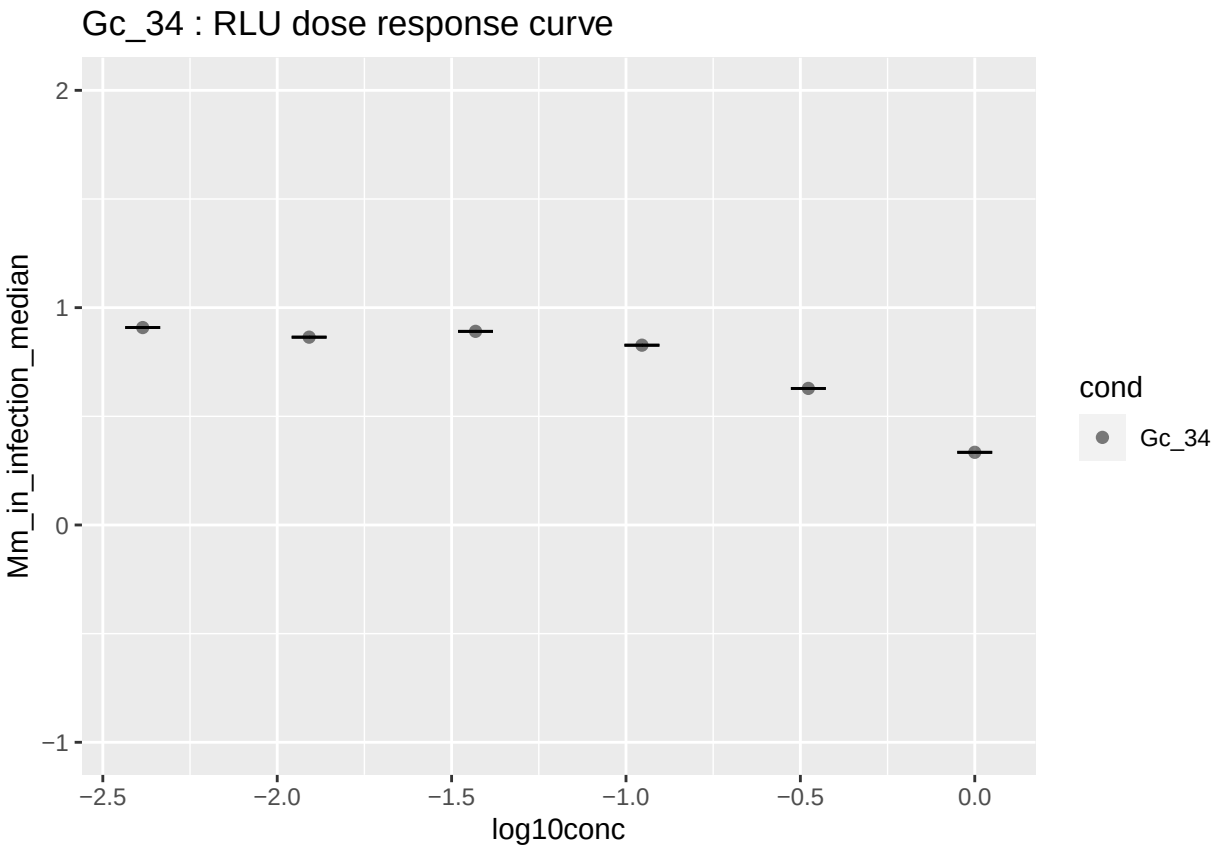

Gc_28 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

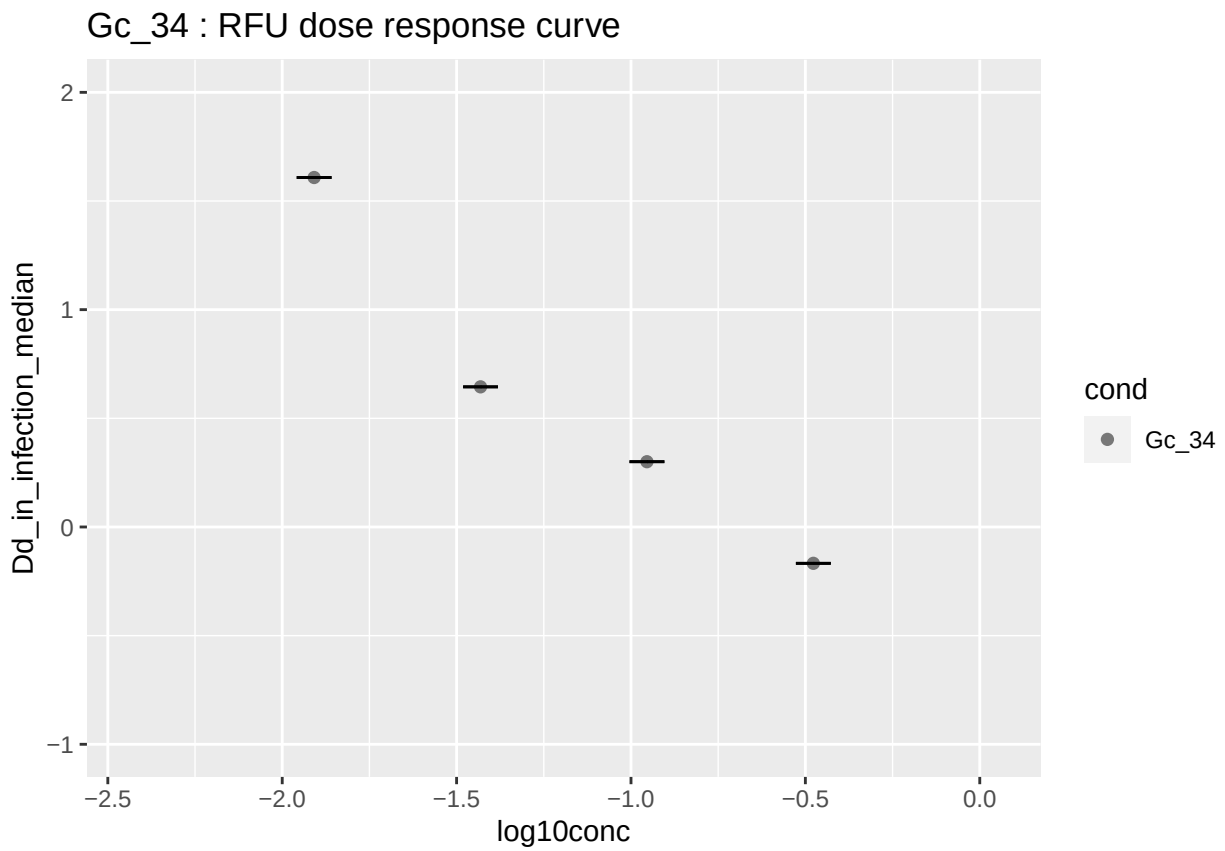

Gc_32 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

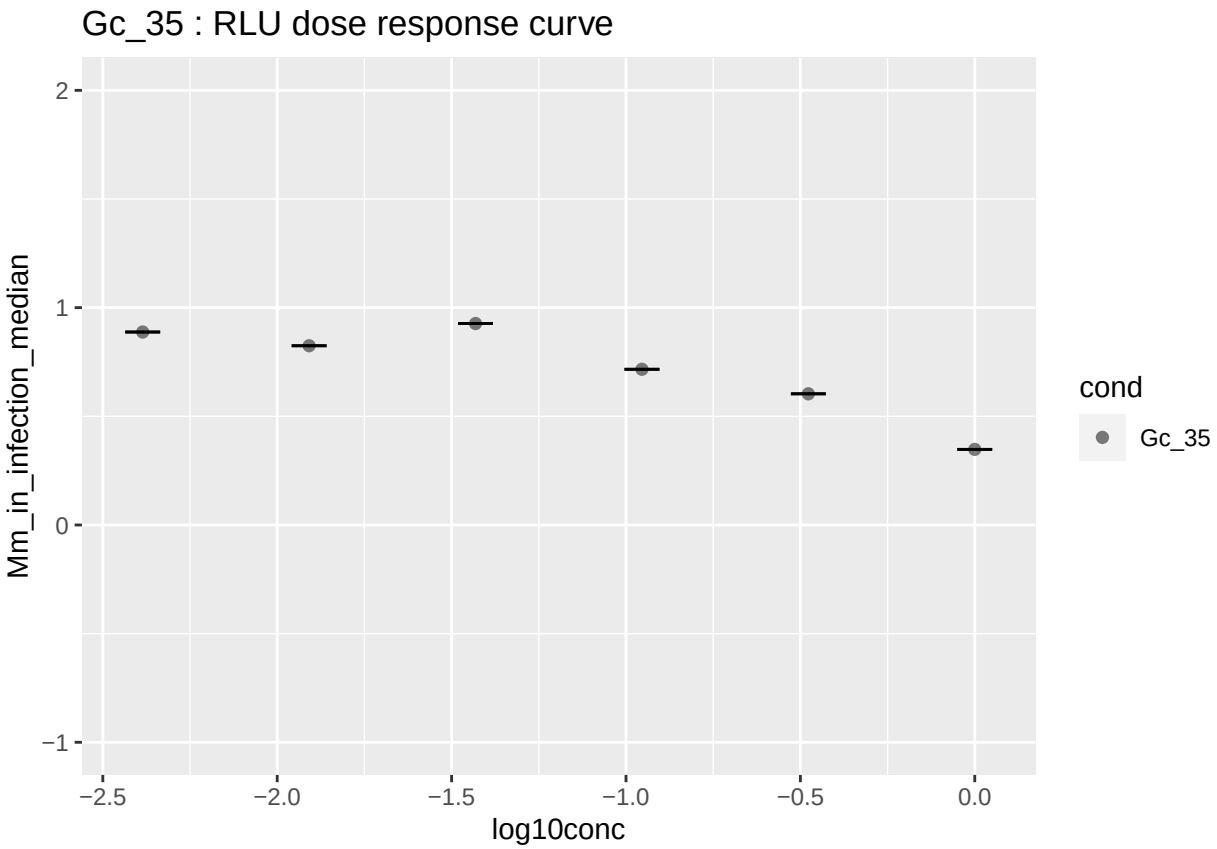

Gc_32 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

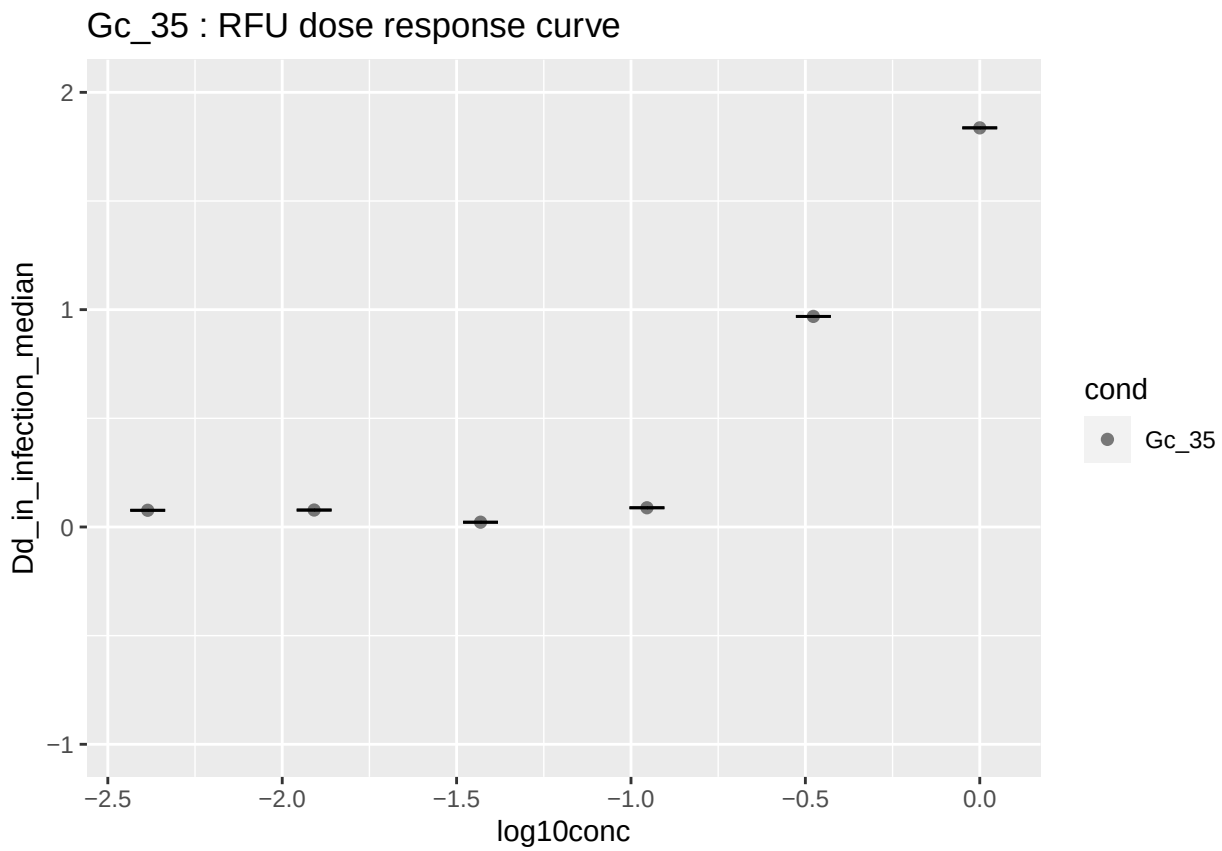

Gc_33 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

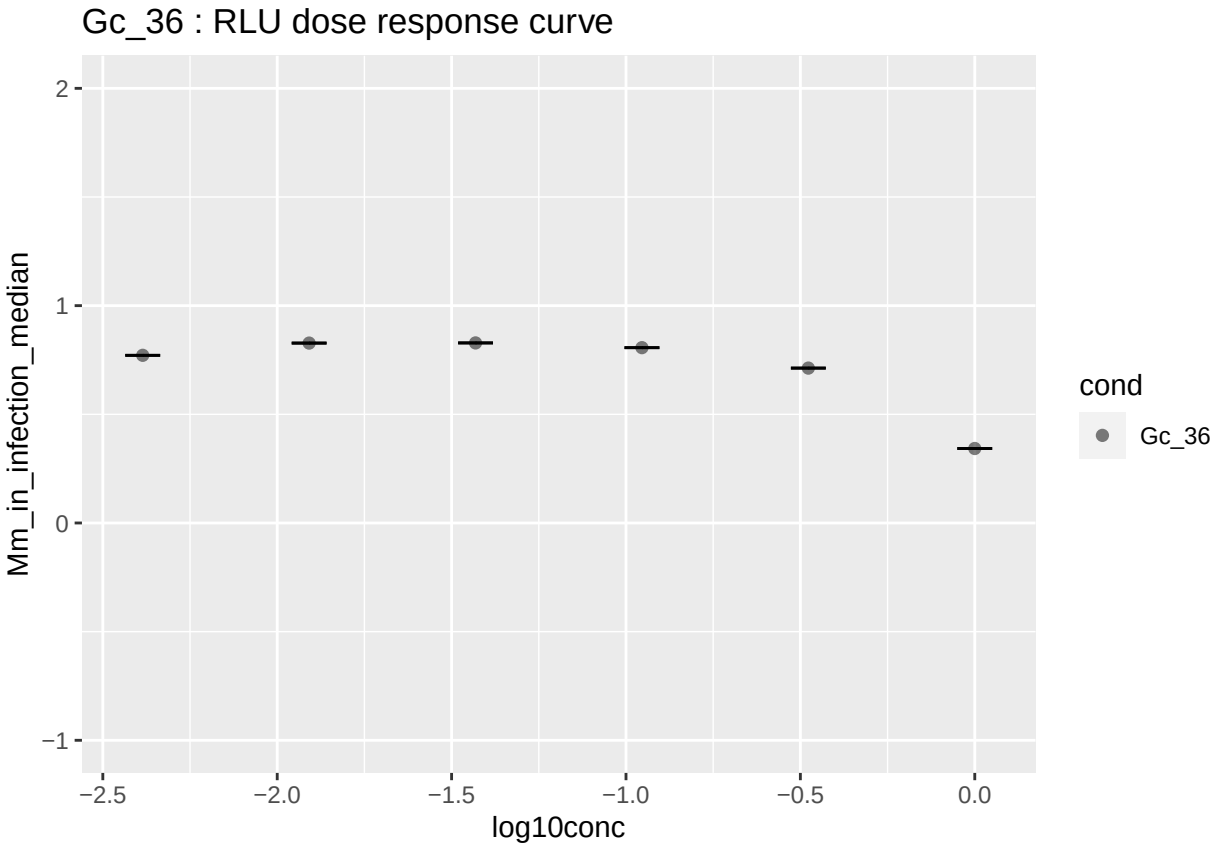

Gc_33 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

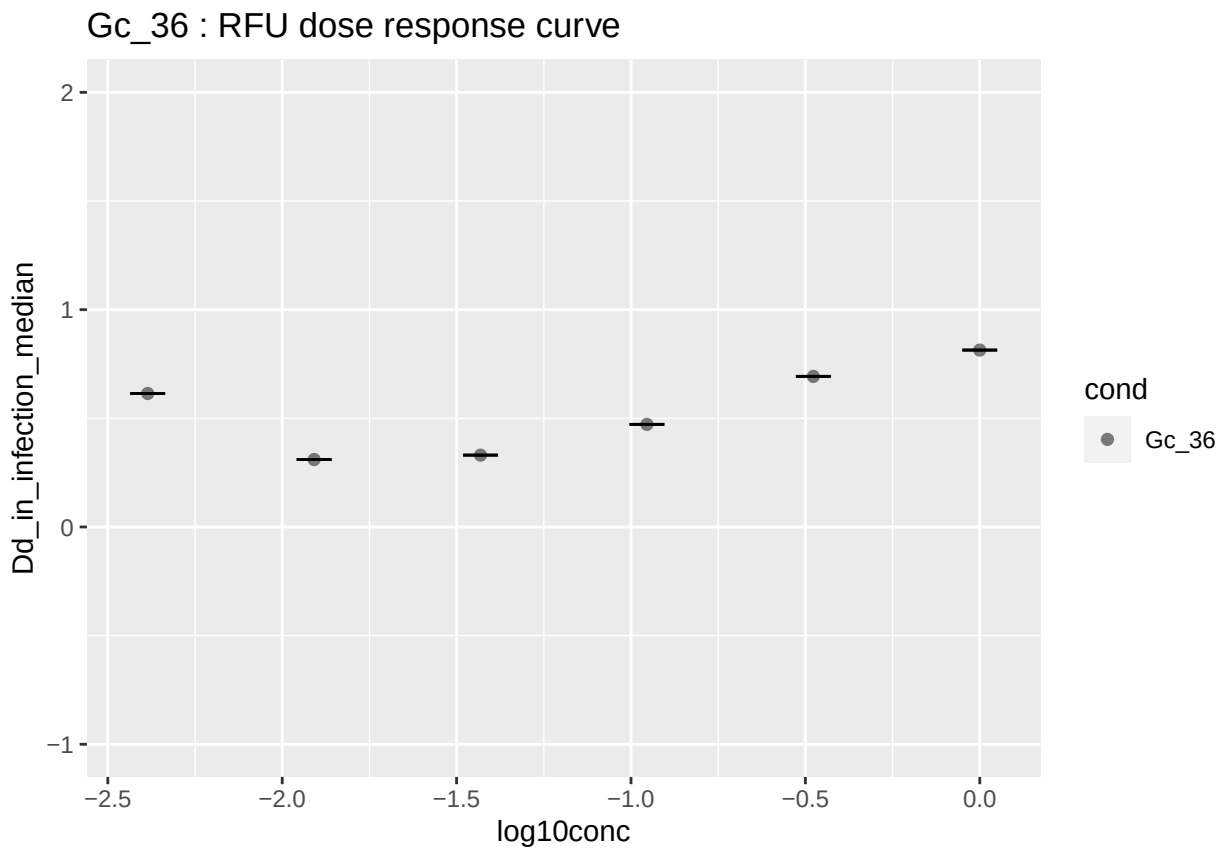

Gc_34 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

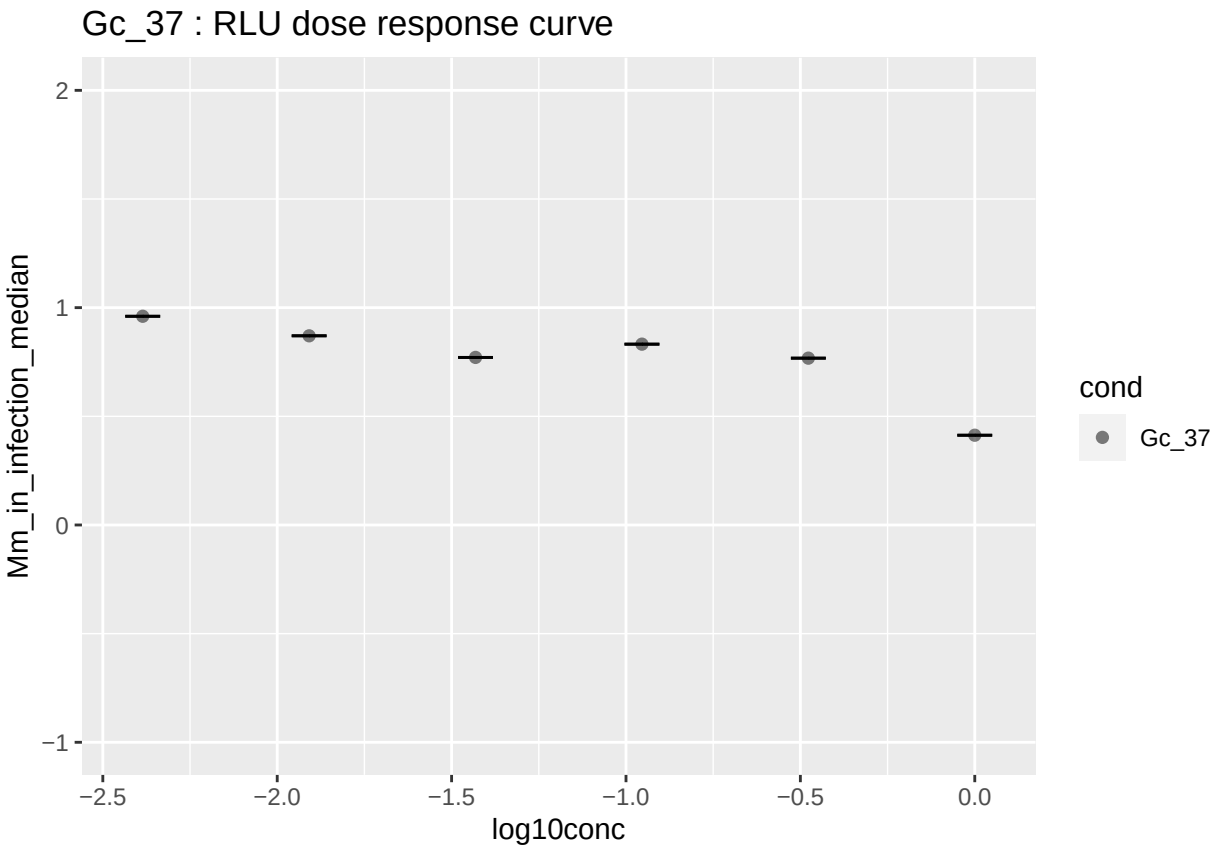

Gc_34 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

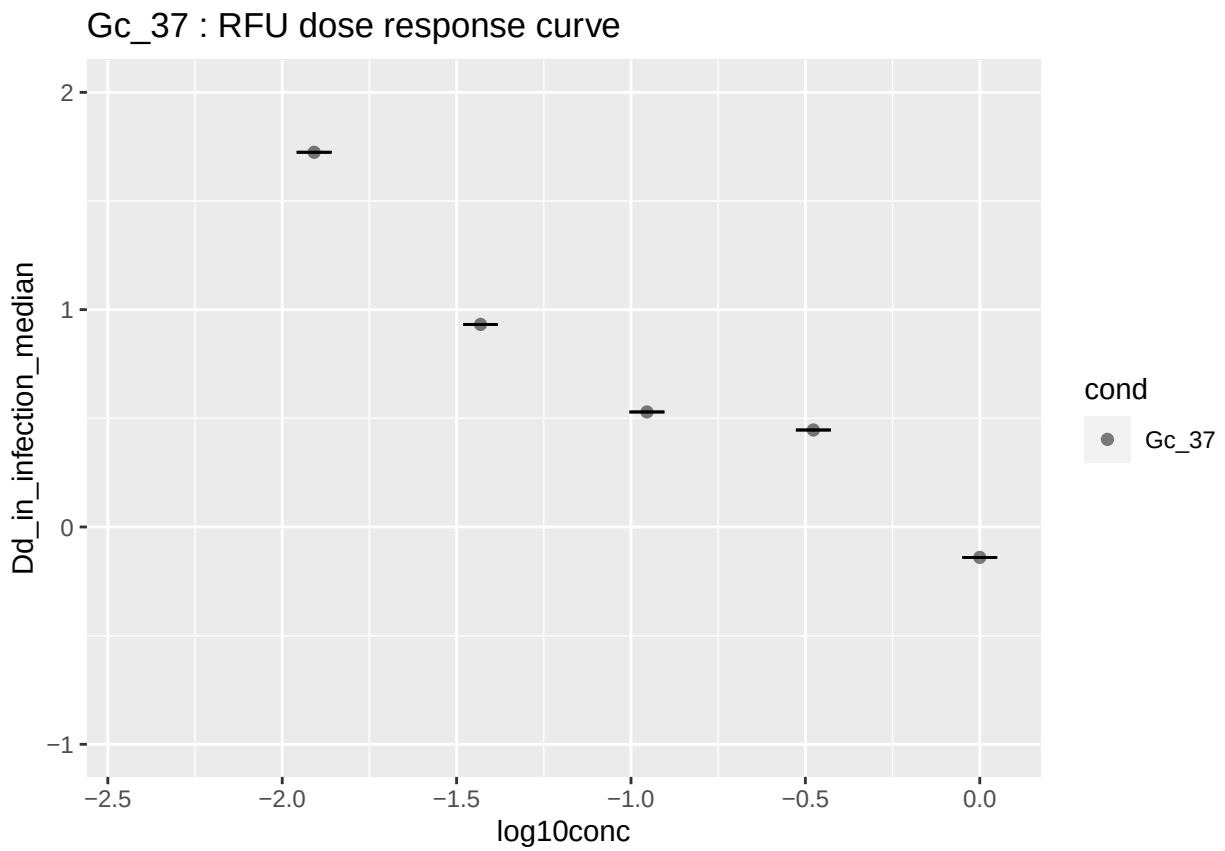

Gc_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

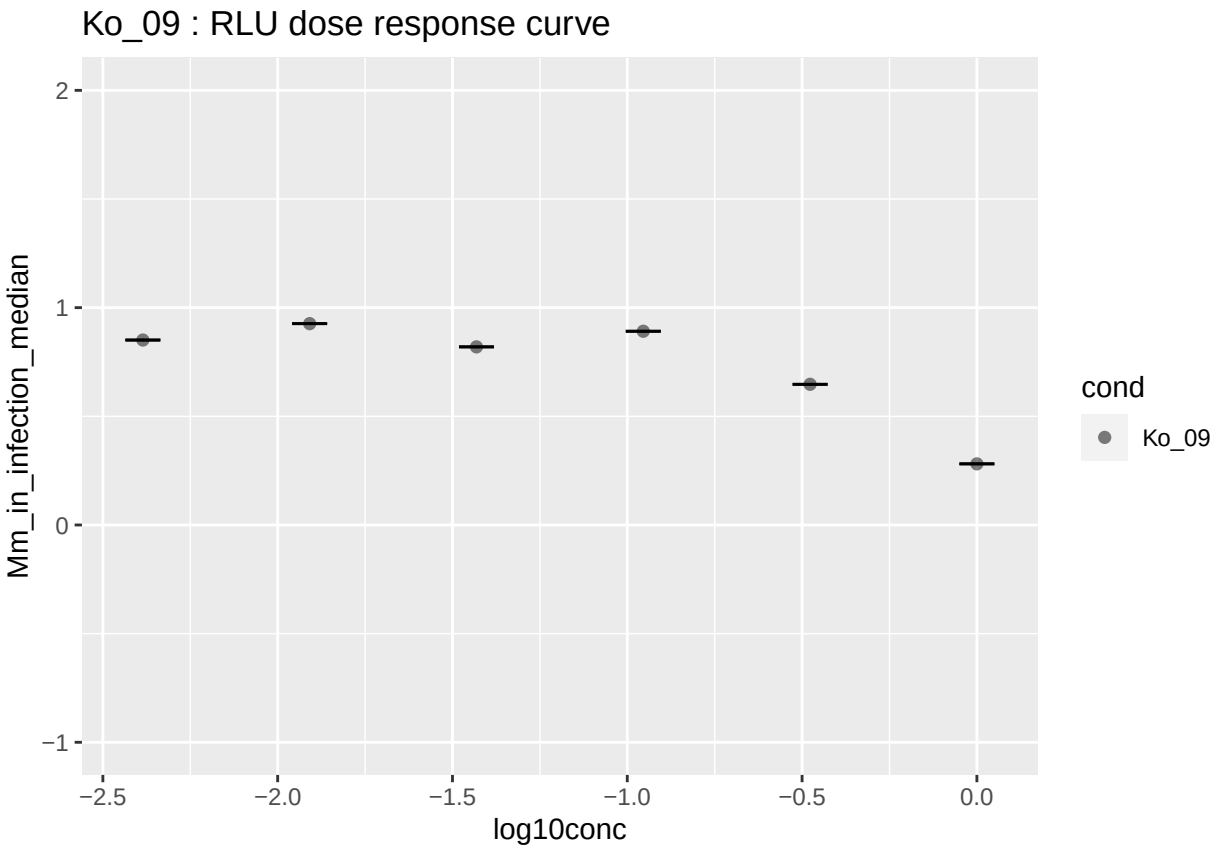

Gc_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

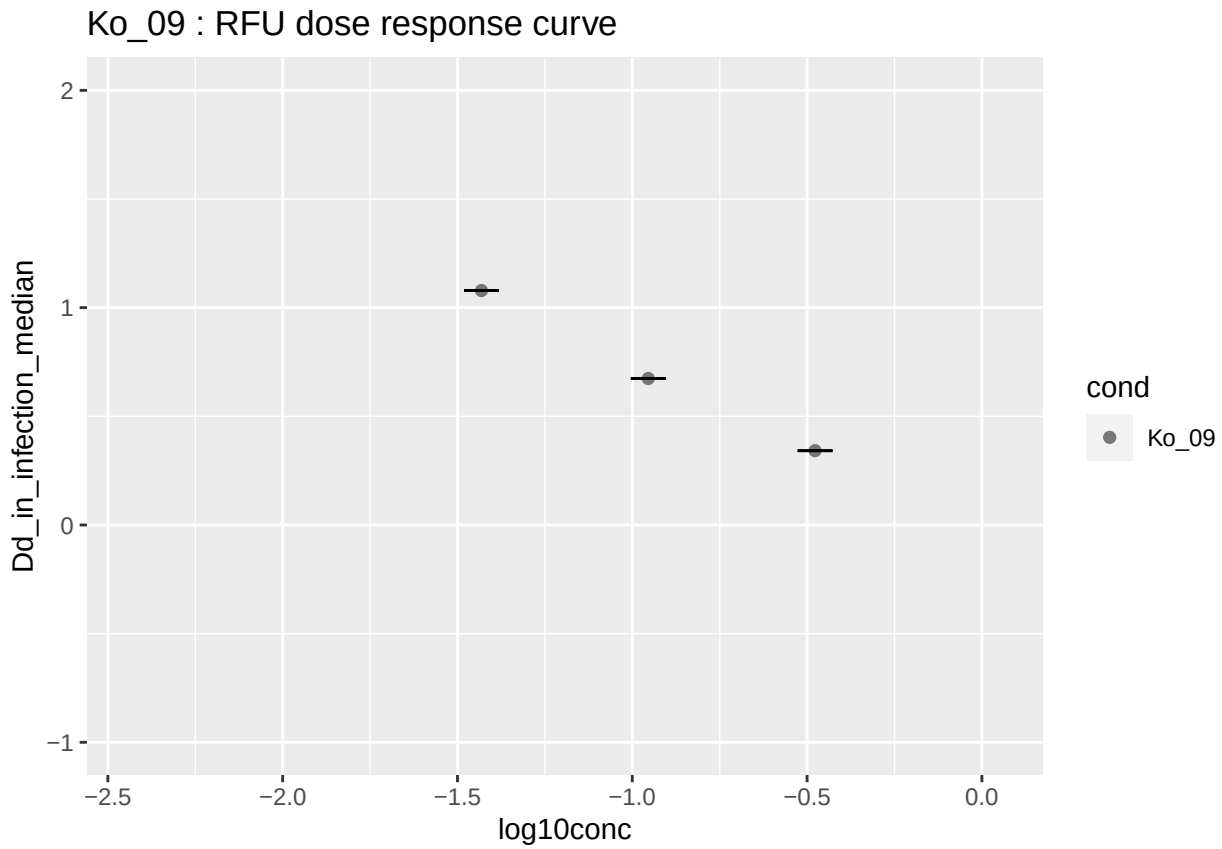

Gc_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

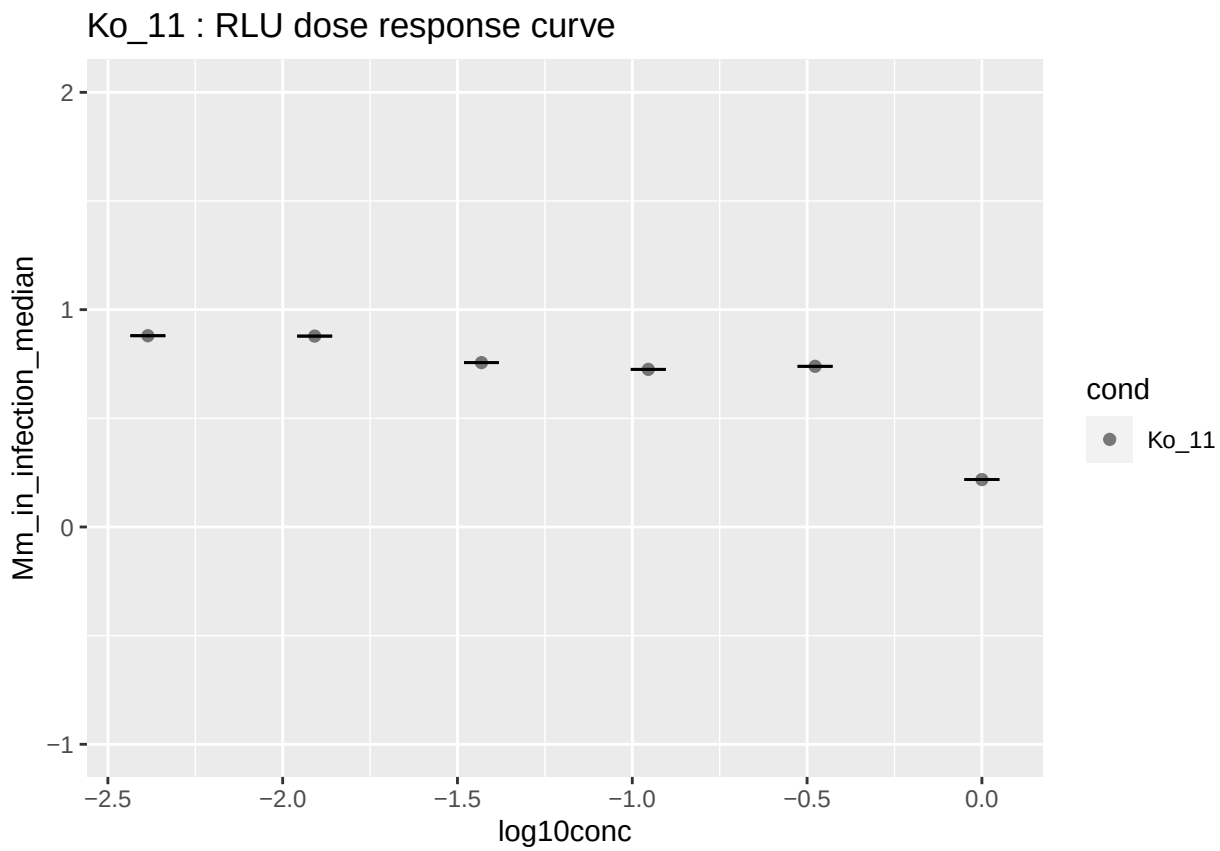

Gc_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

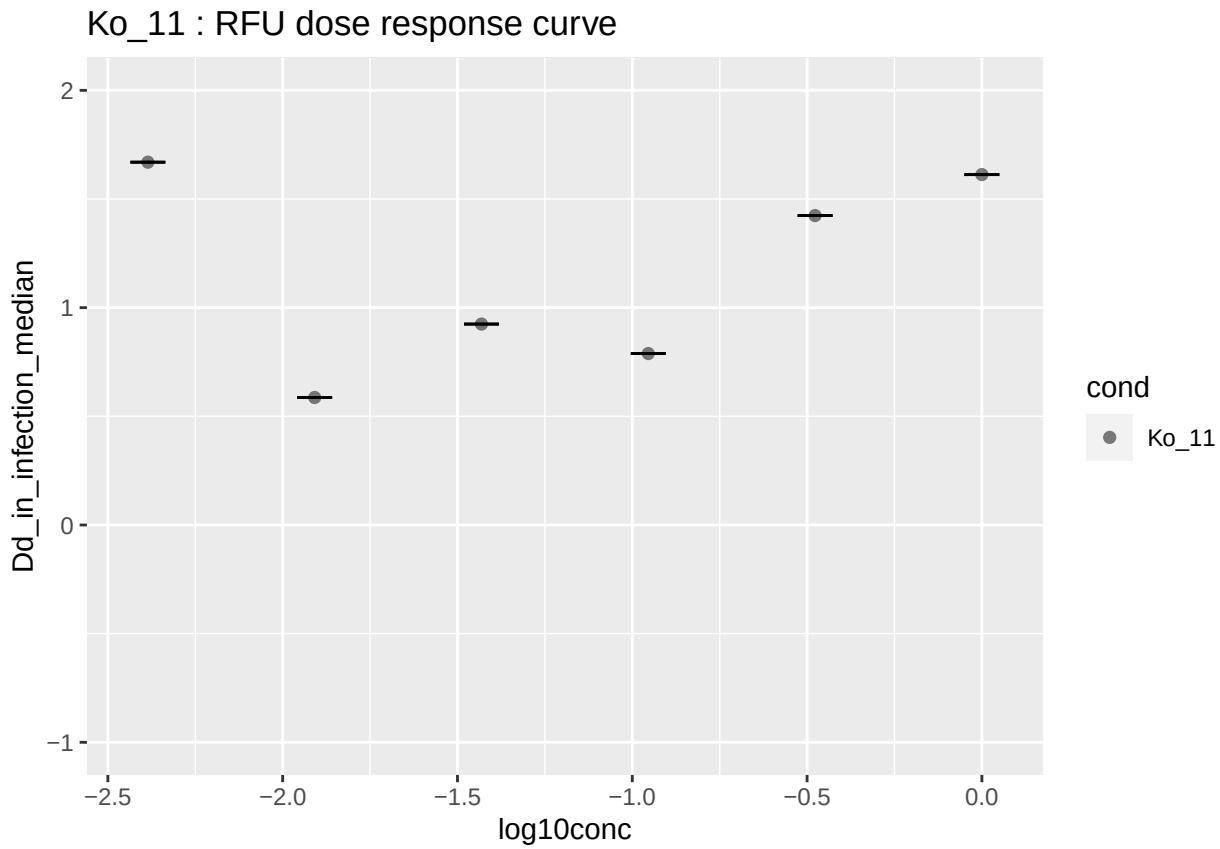

Gc_37 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

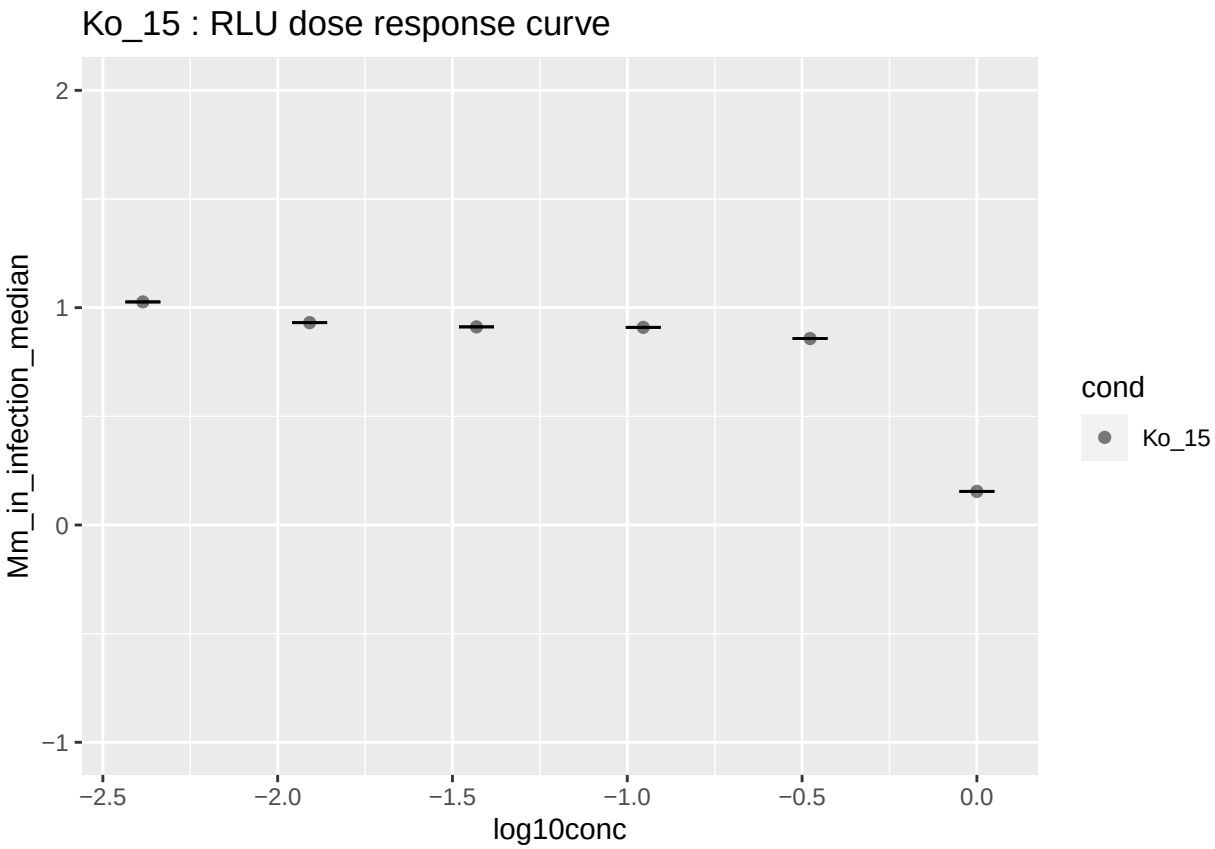

Gc_37 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

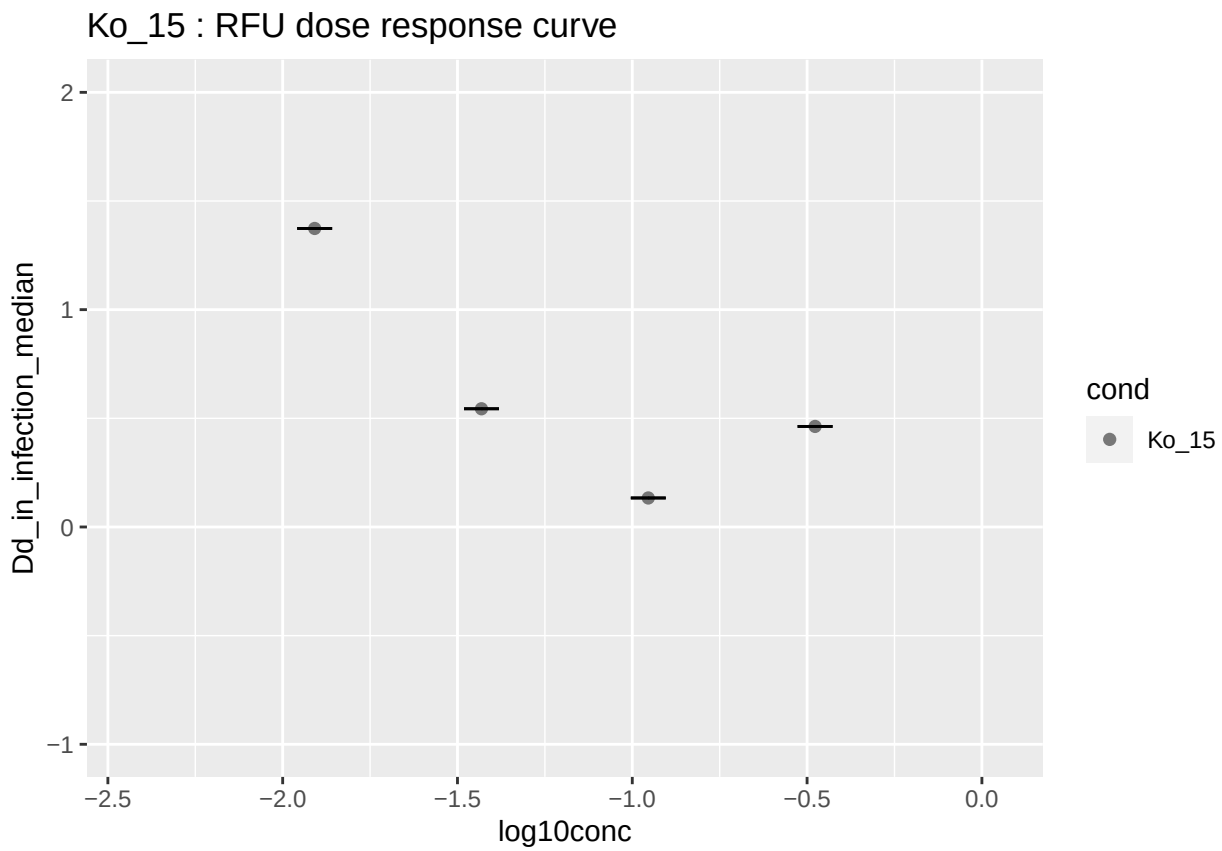

Ko_09 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

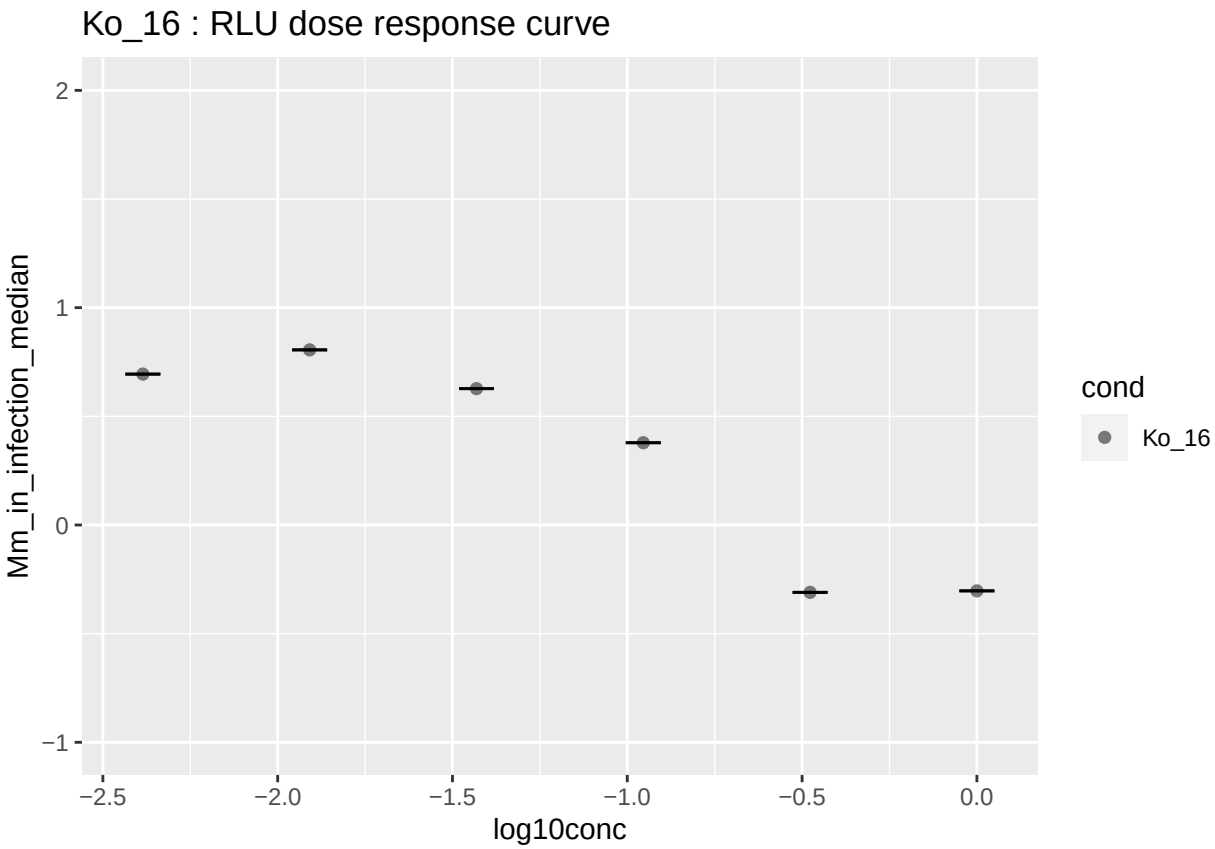

Ko_09 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

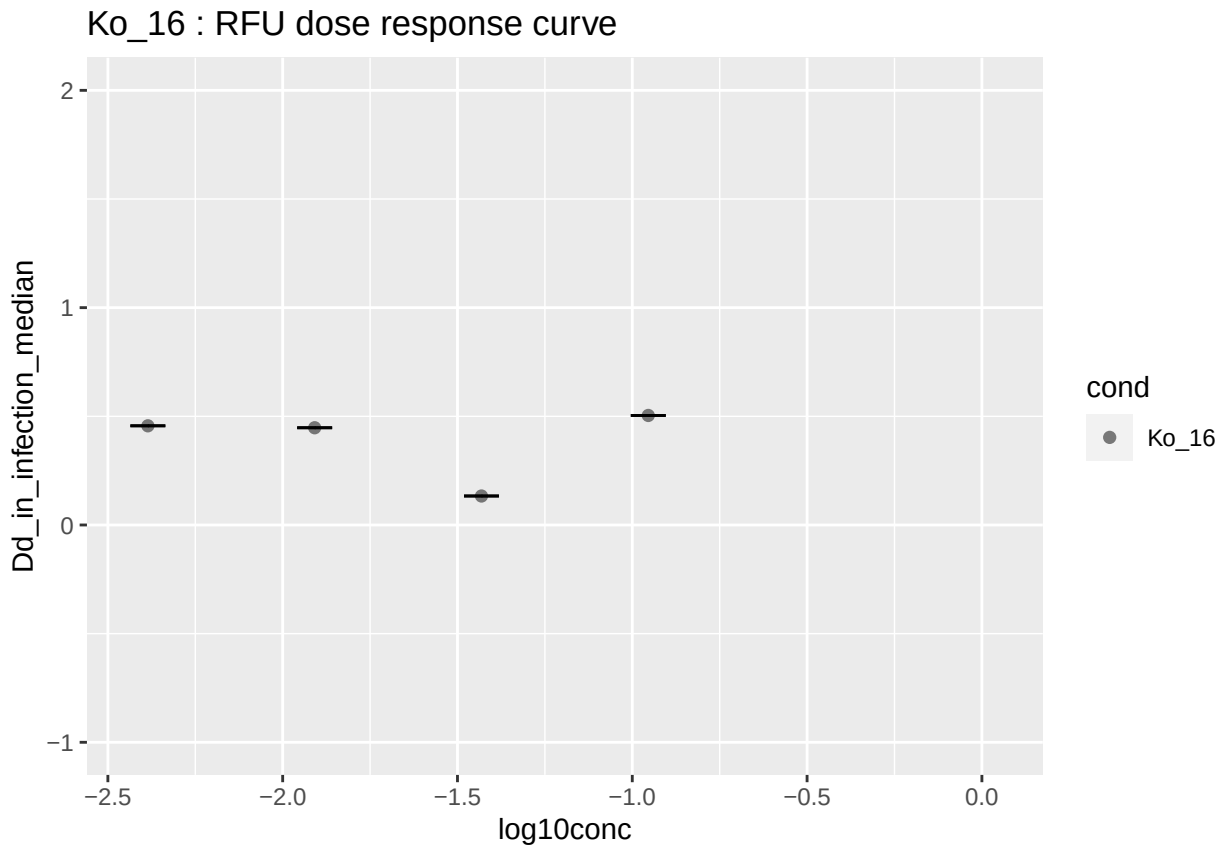

Ko_11 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

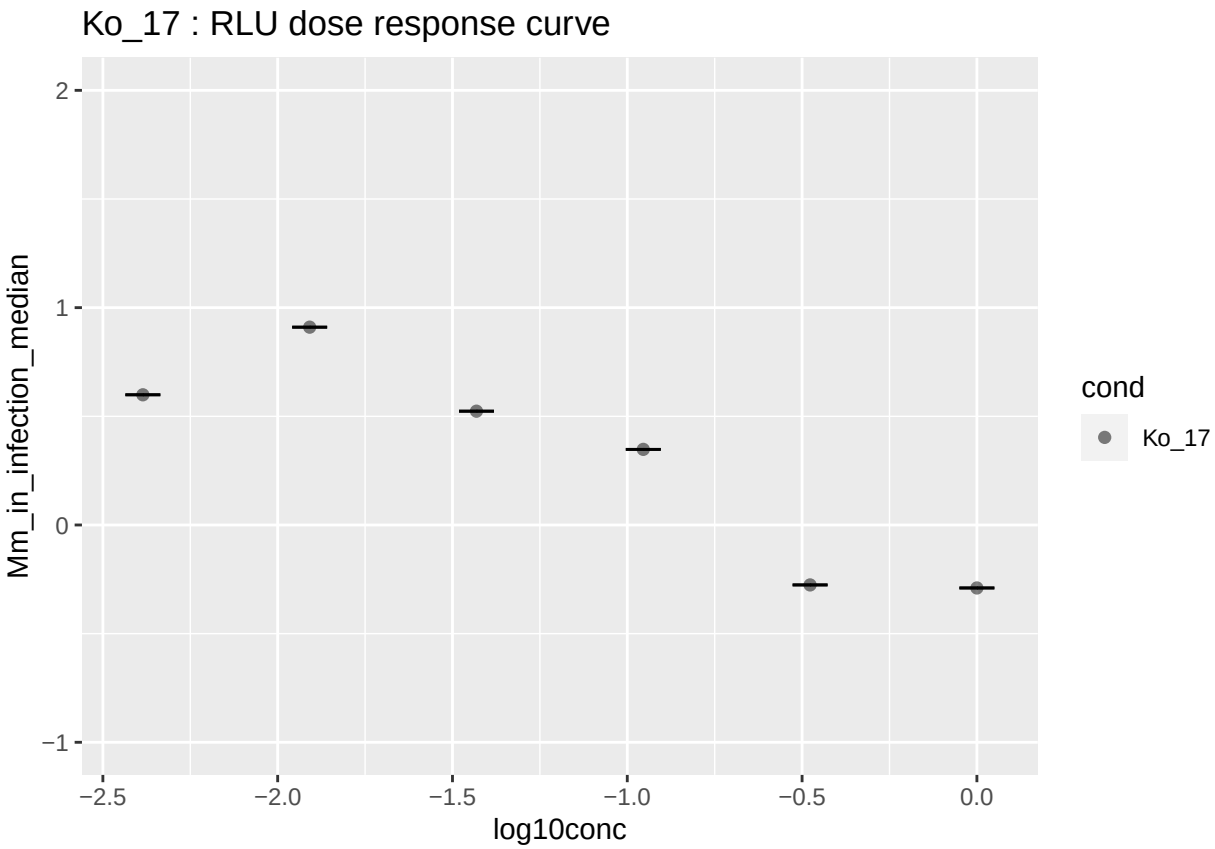

Ko_11 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

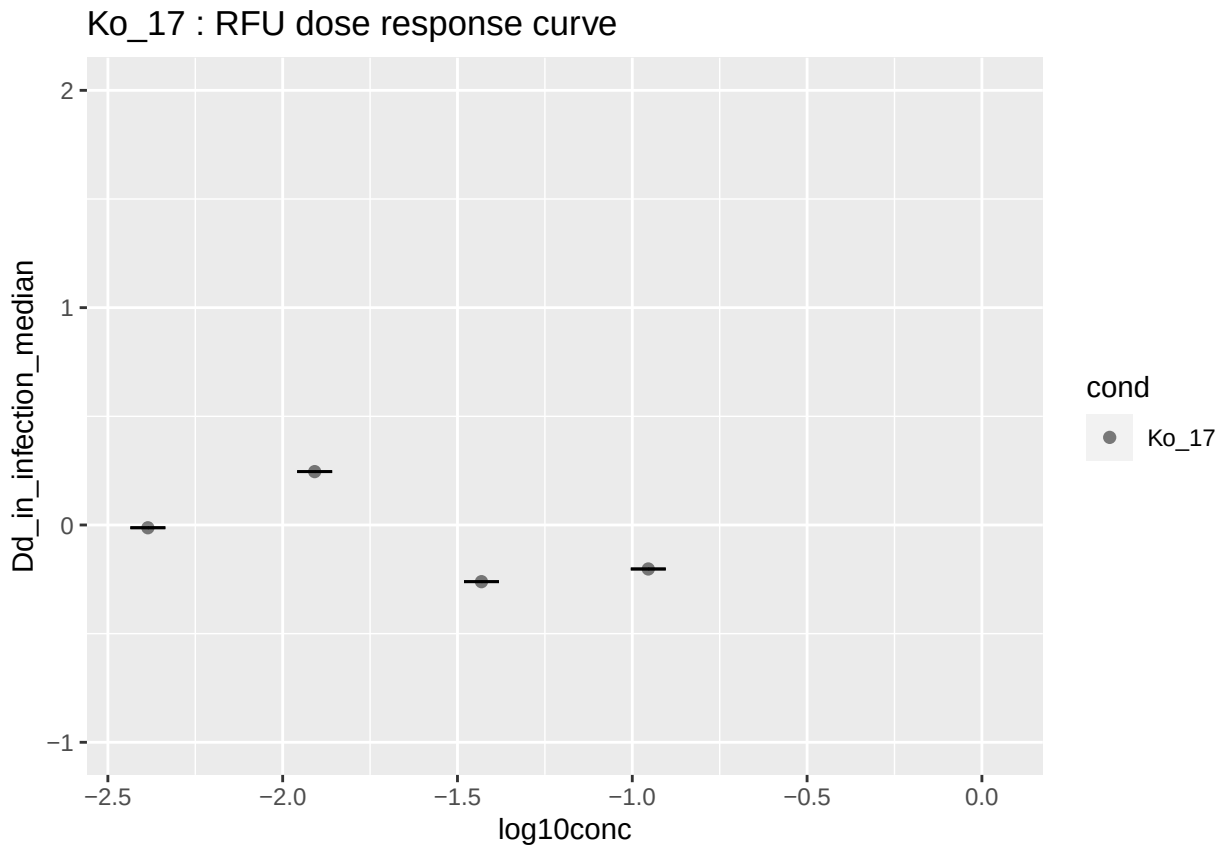

Ko_15 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

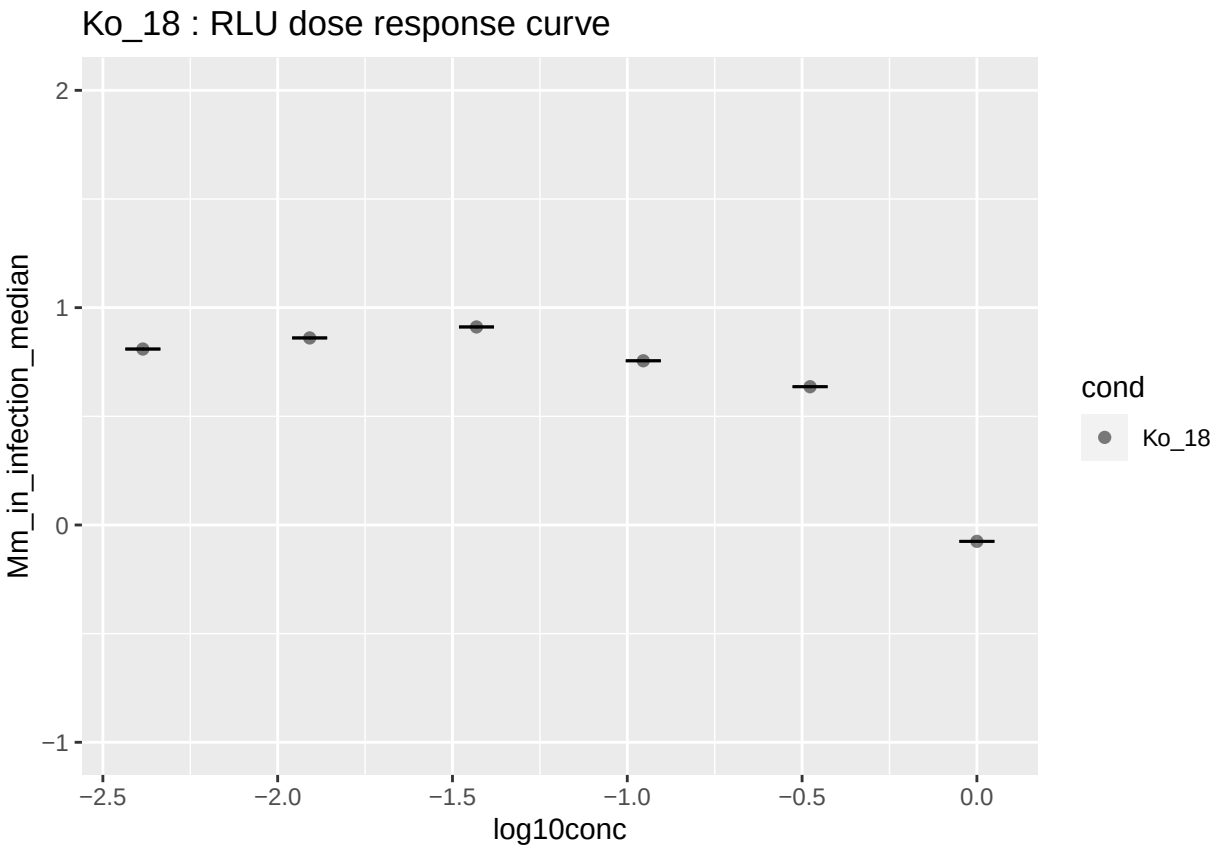

Ko_15 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

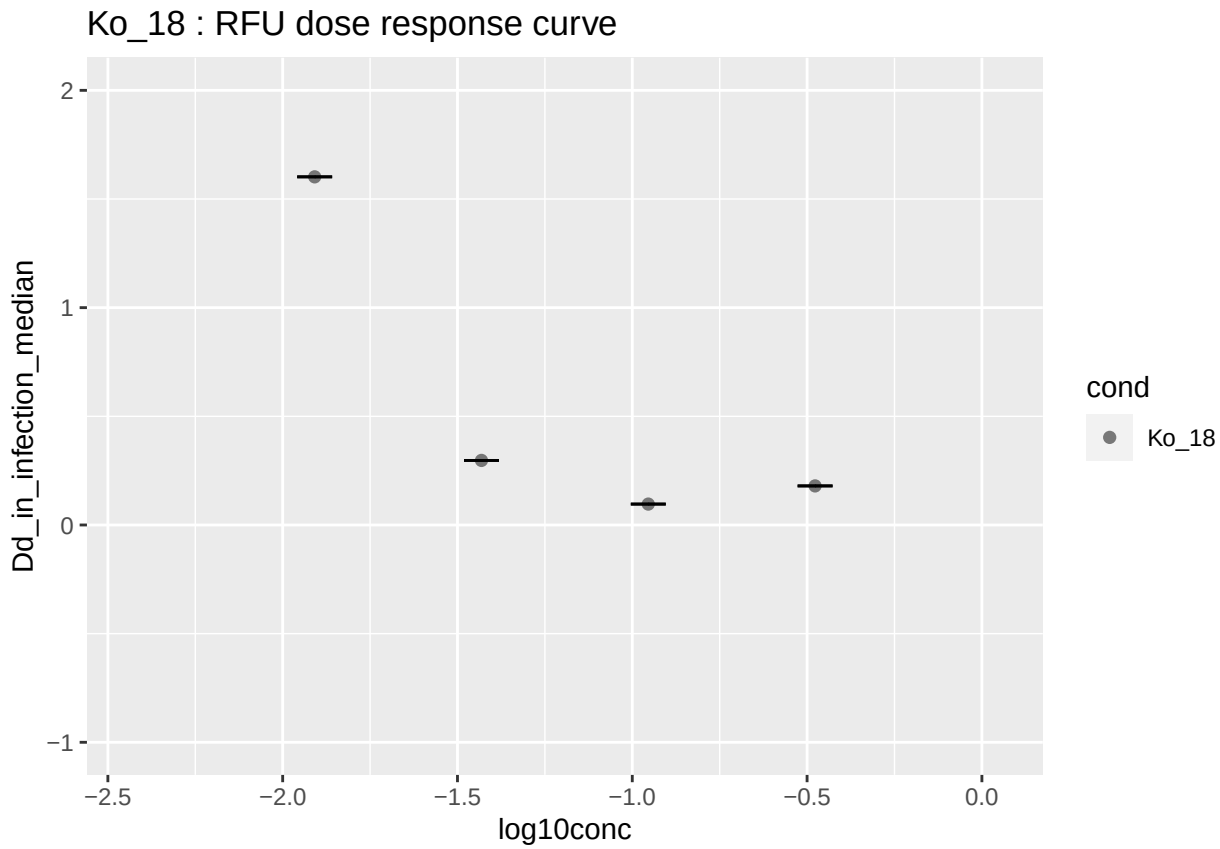

Ko_16 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

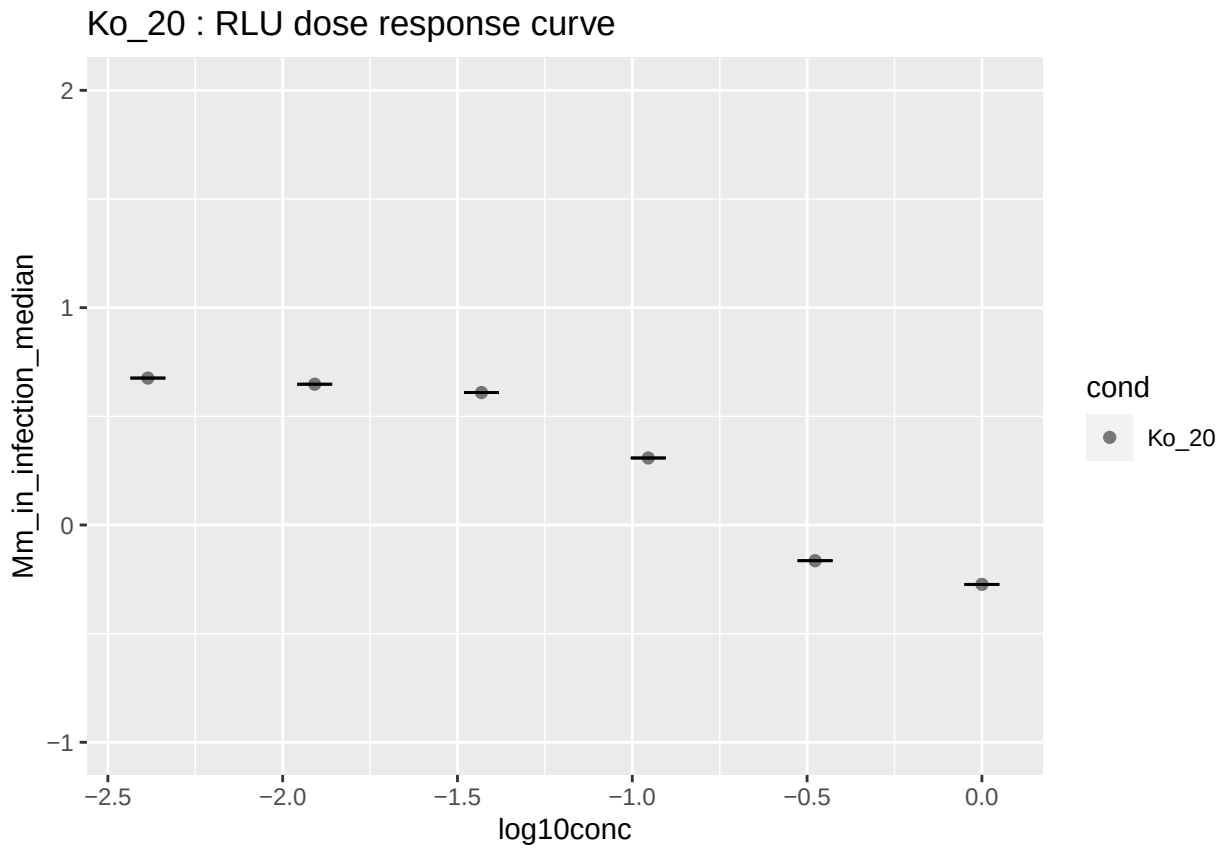

Ko_16 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

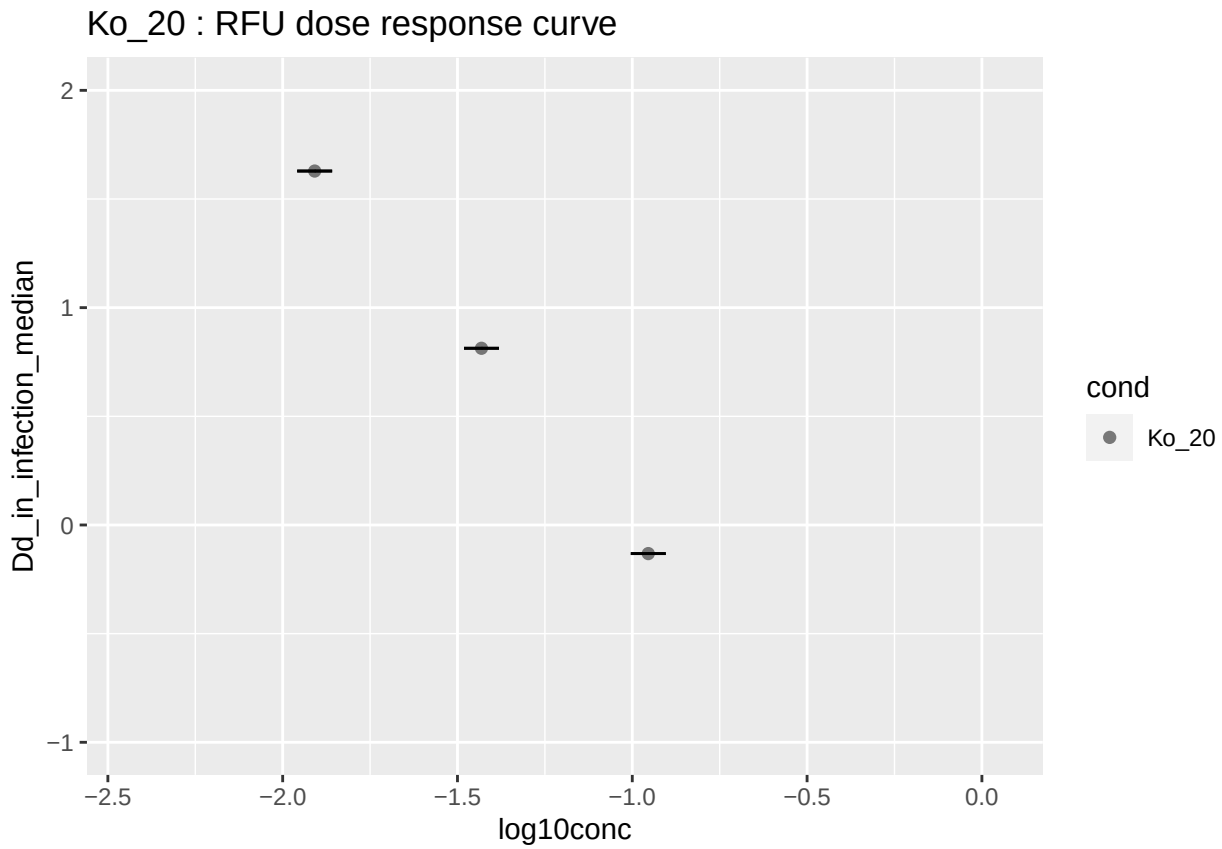

Ko_17 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

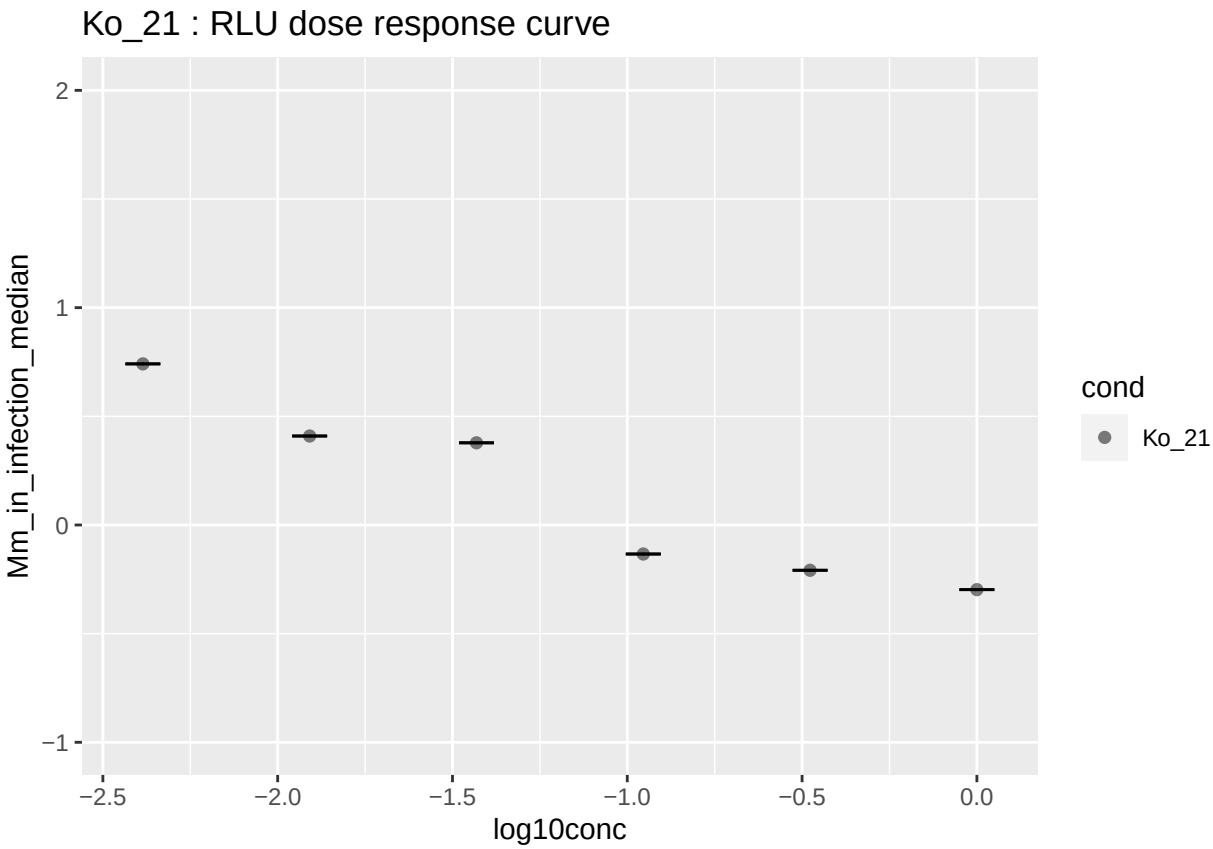

Ko_17 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

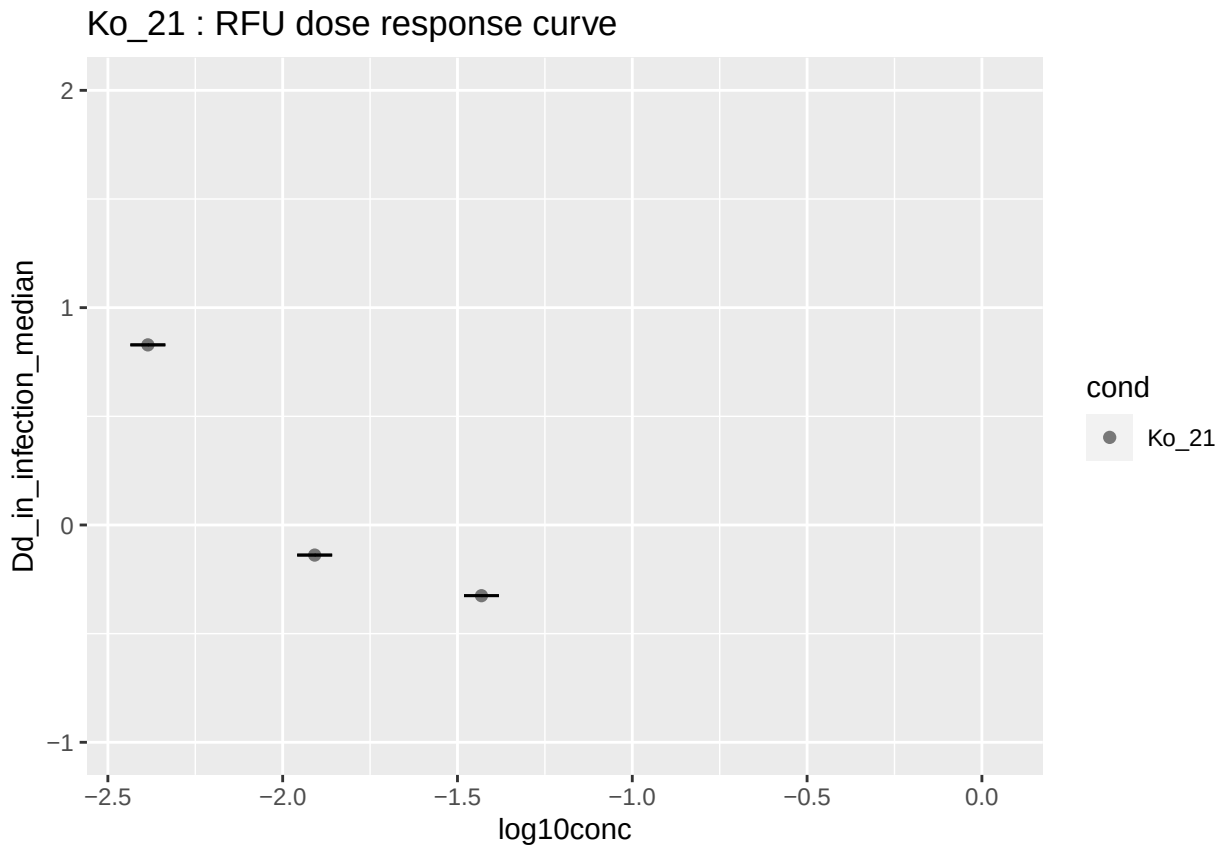

Ko_18 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

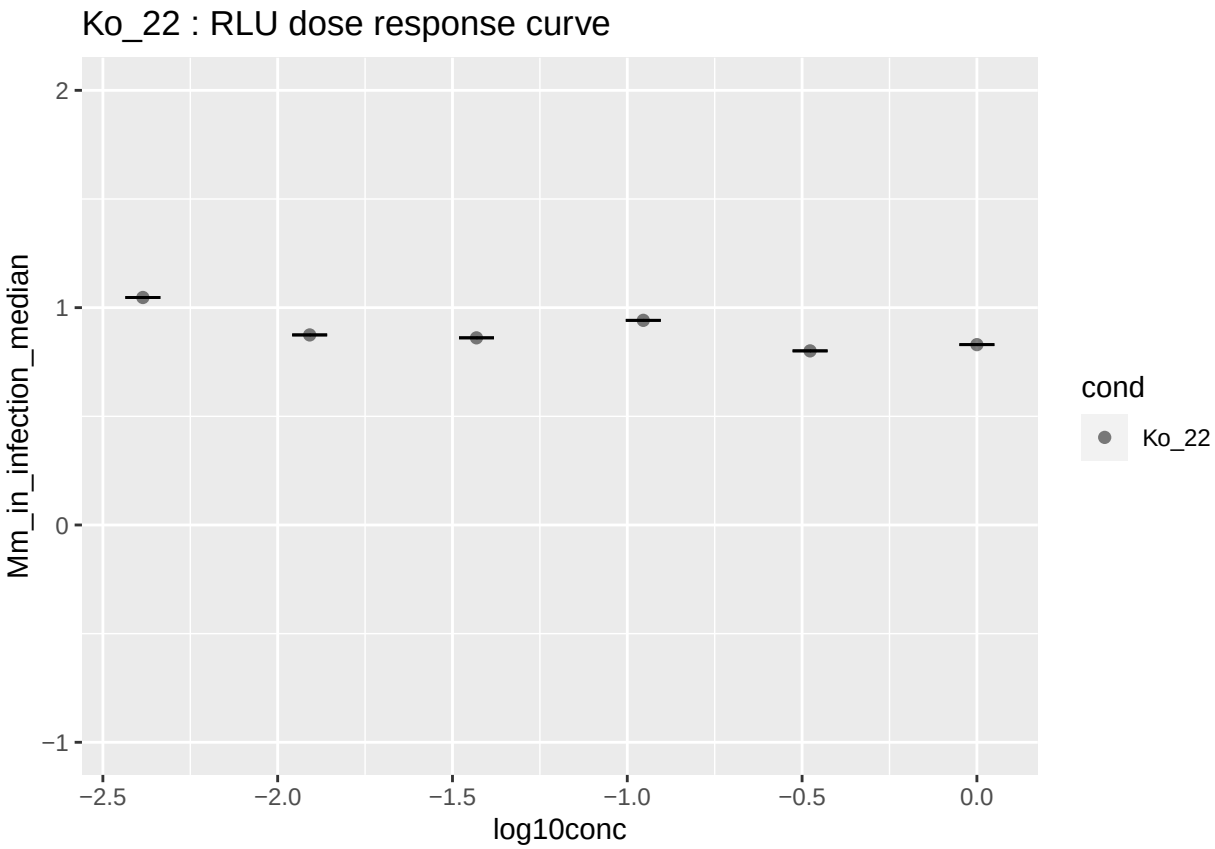

Ko_18 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

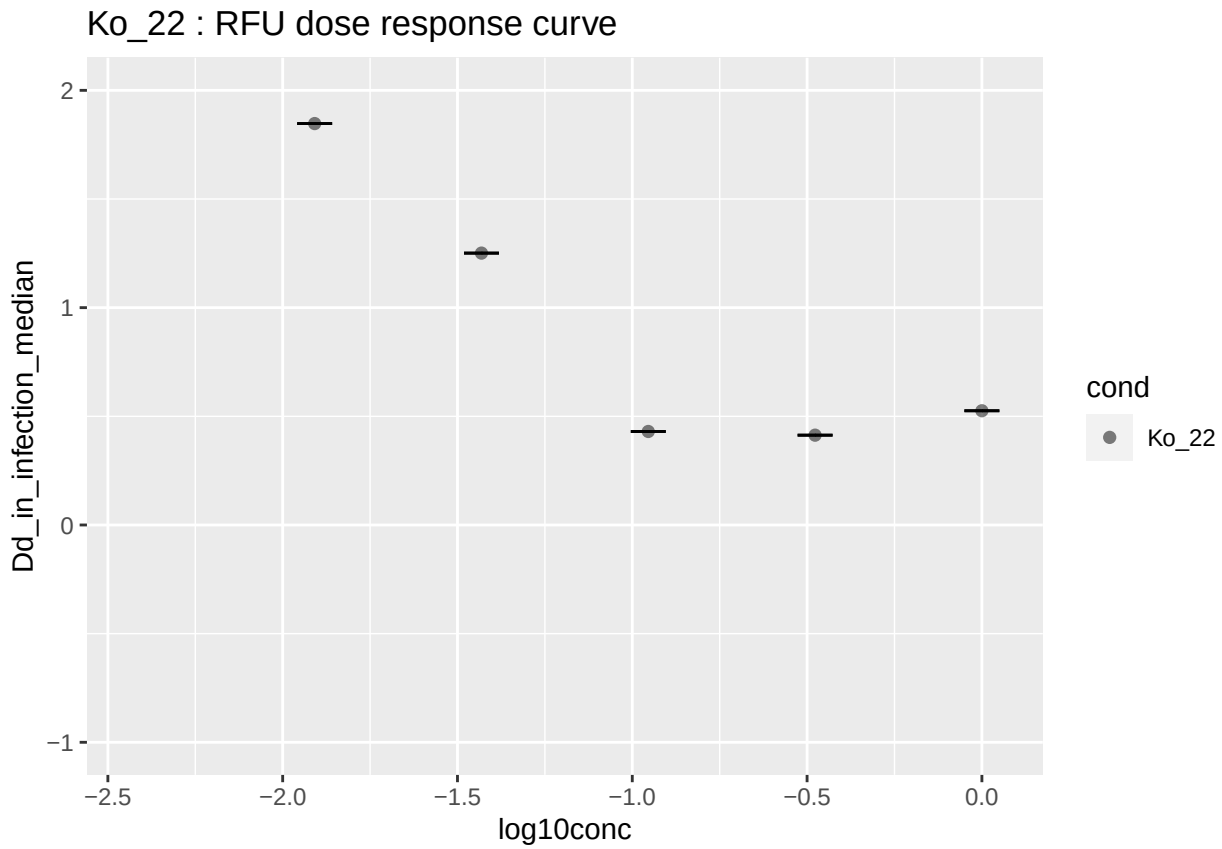

Ko_20 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

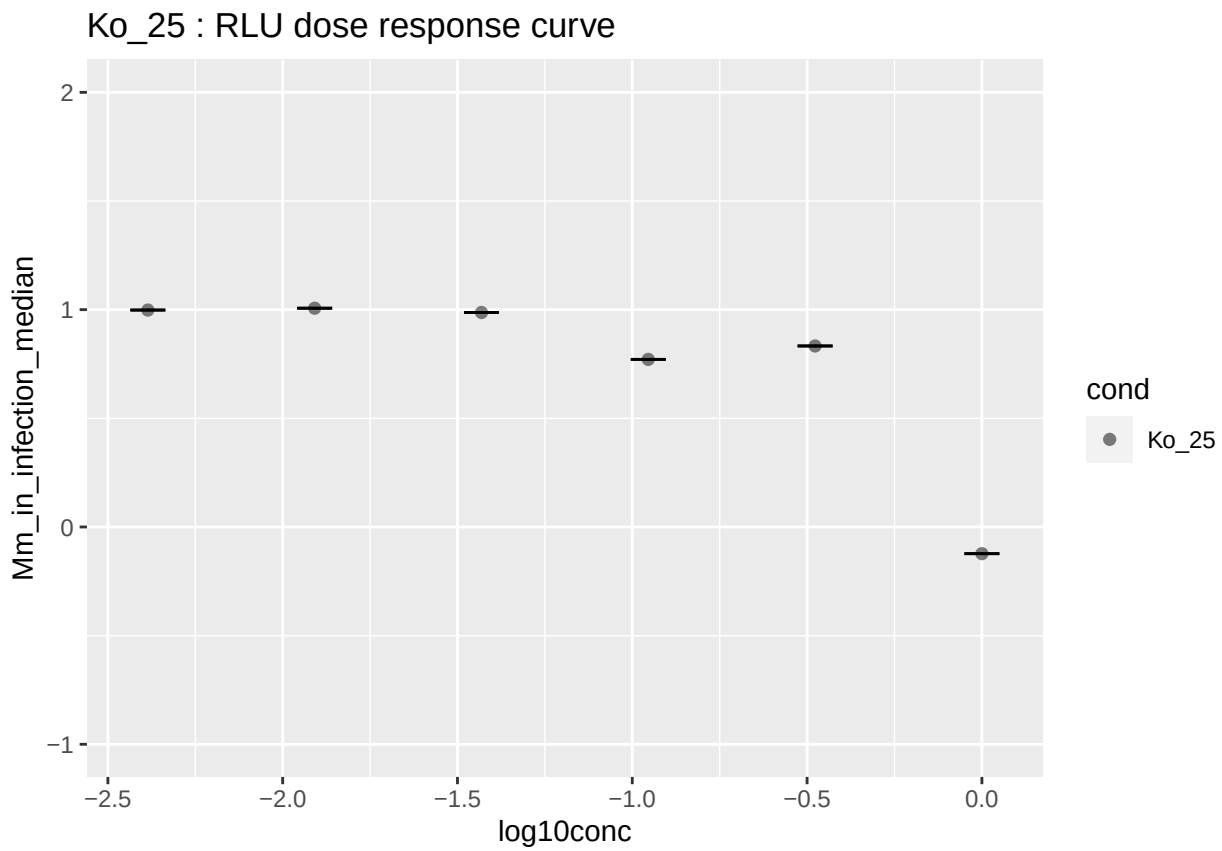

Ko_20 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

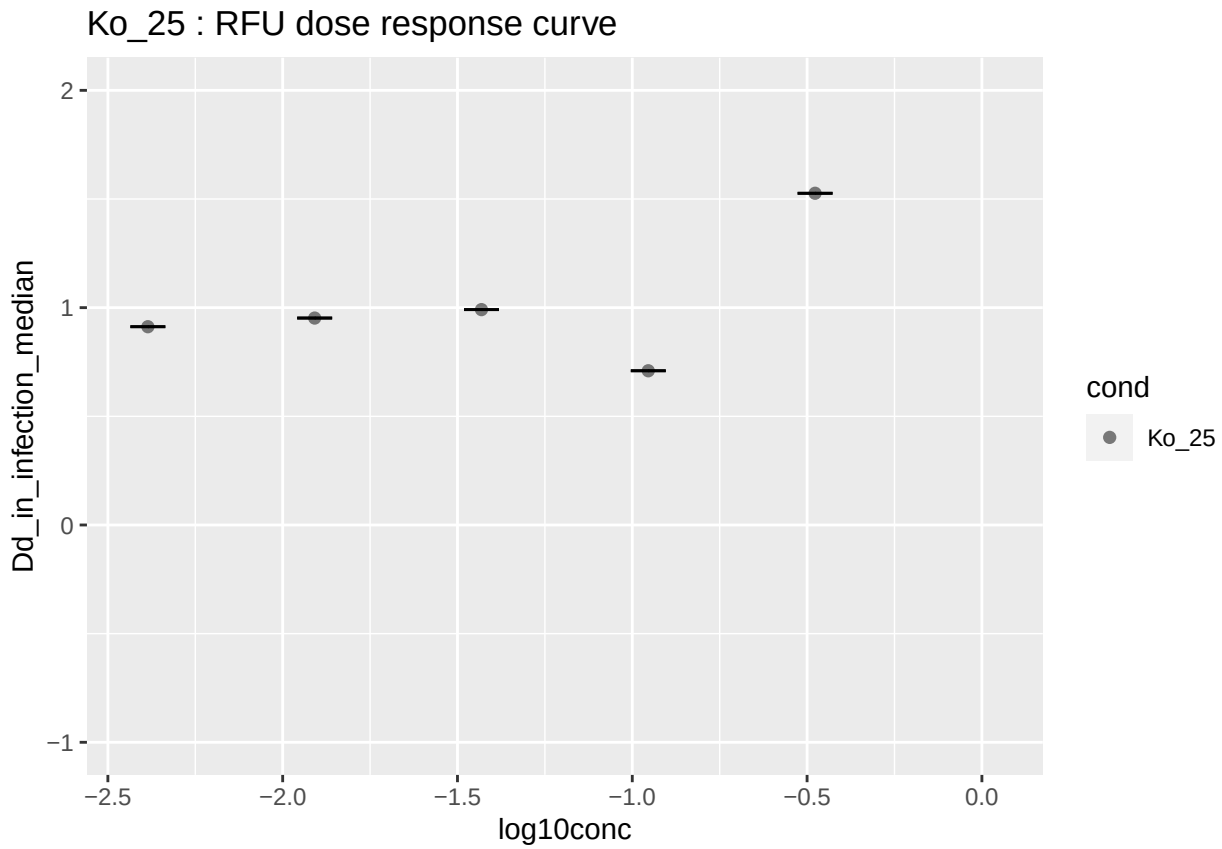

Ko_21 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

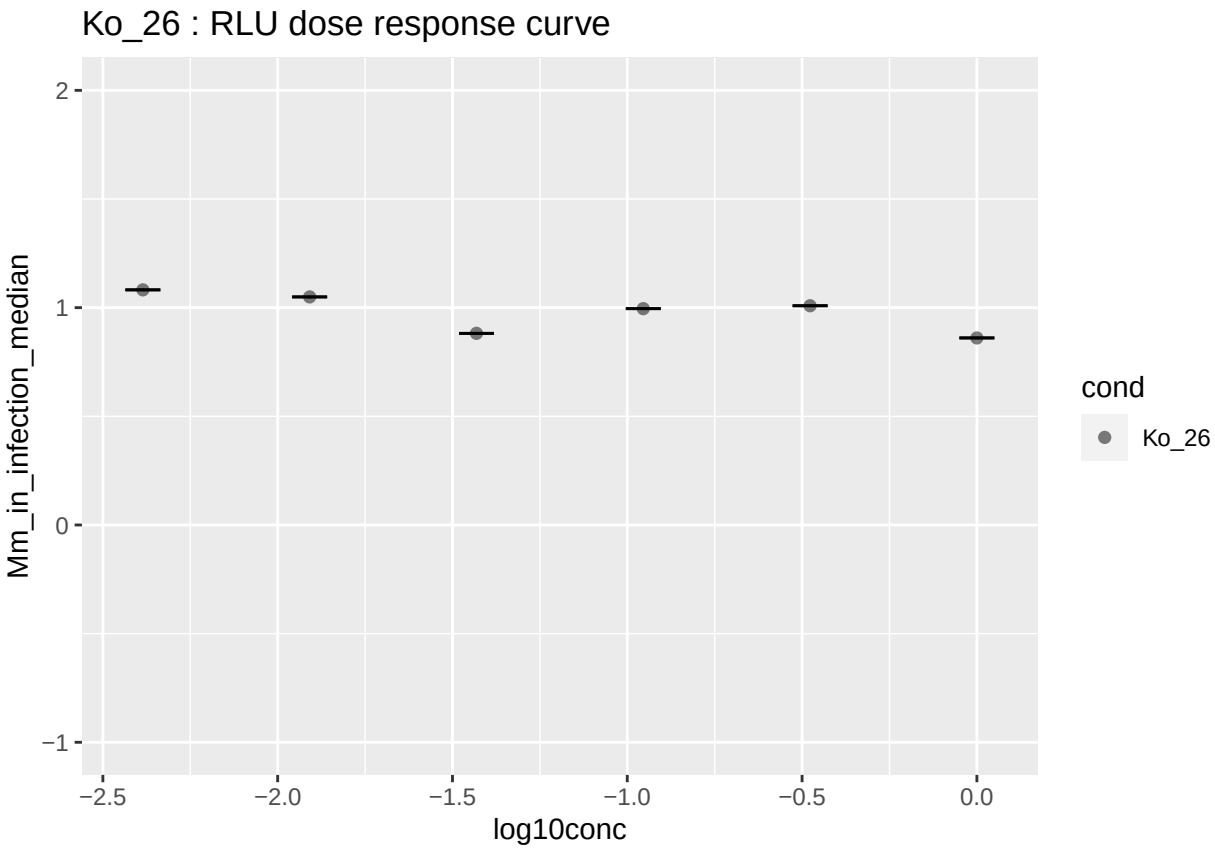

Ko_21 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

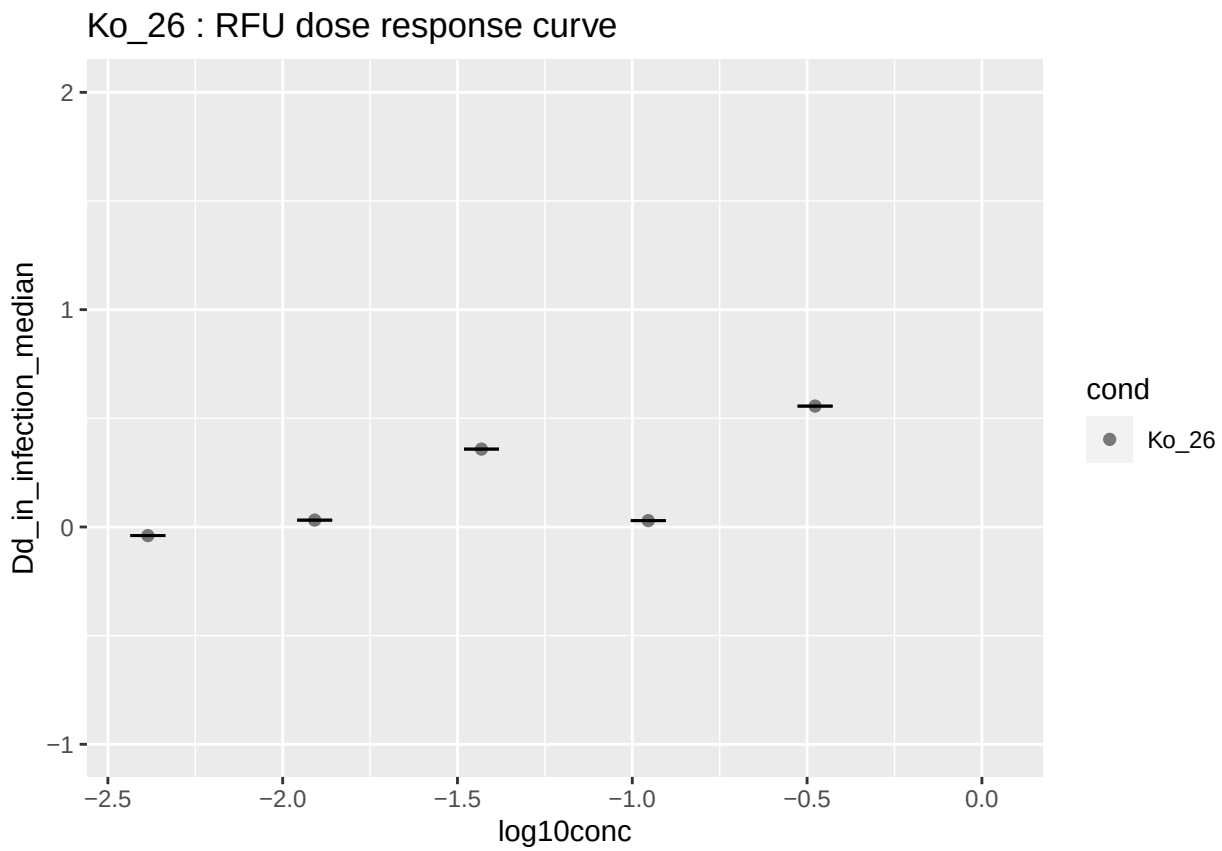

Ko_22 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

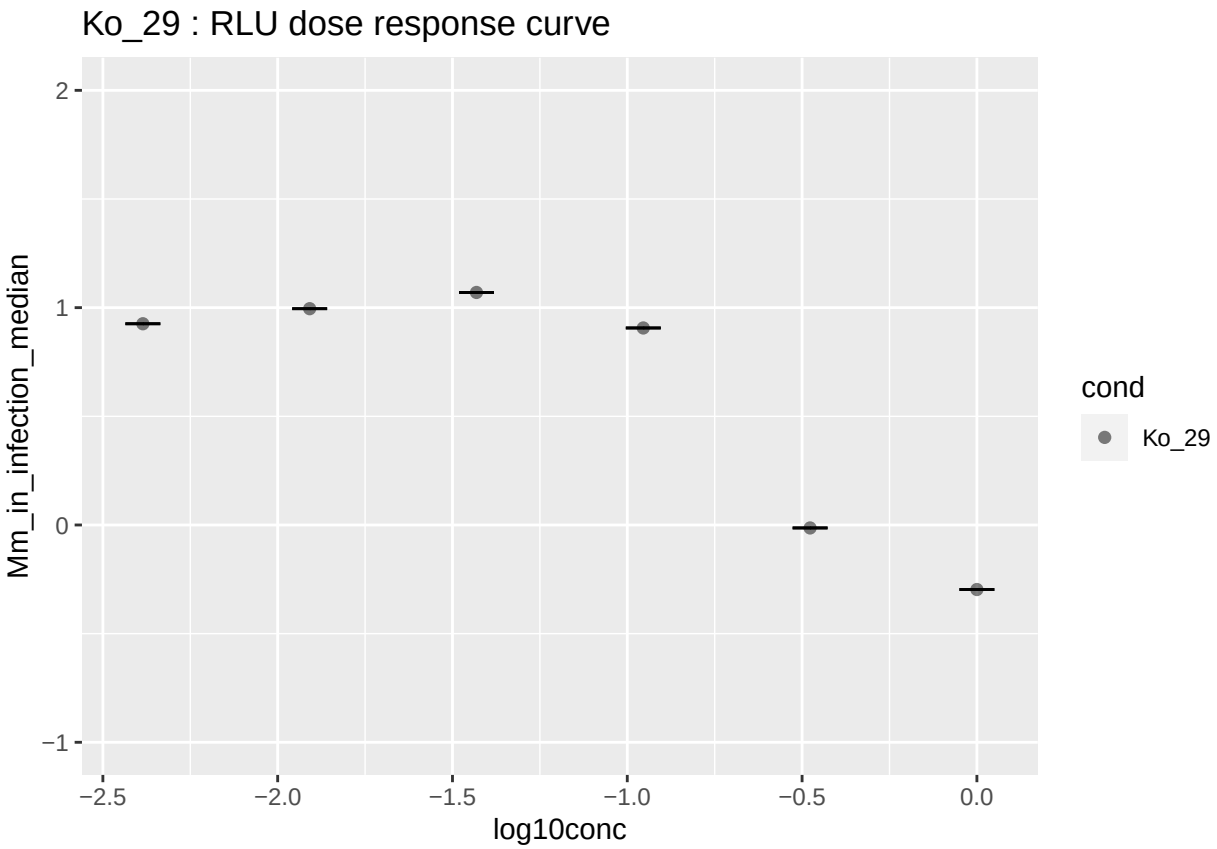

Ko_22 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

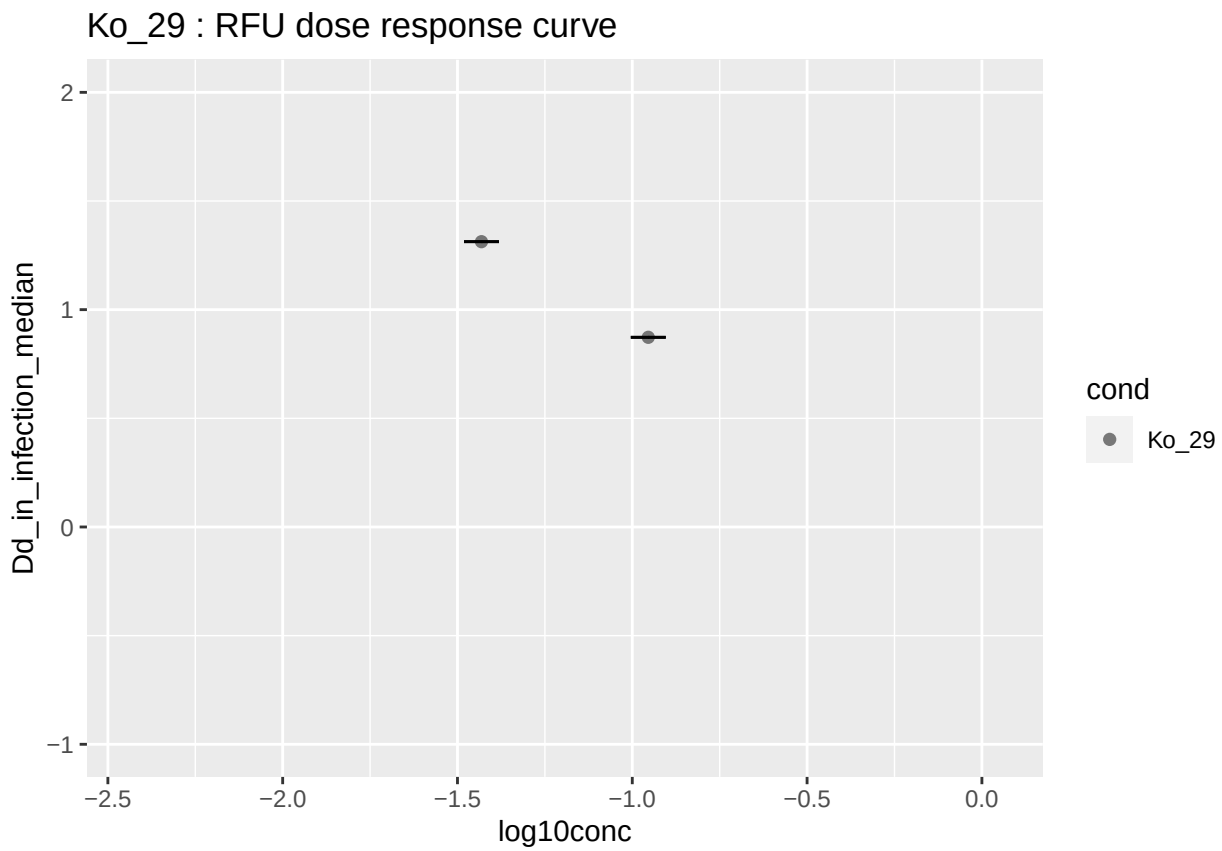

Ko_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

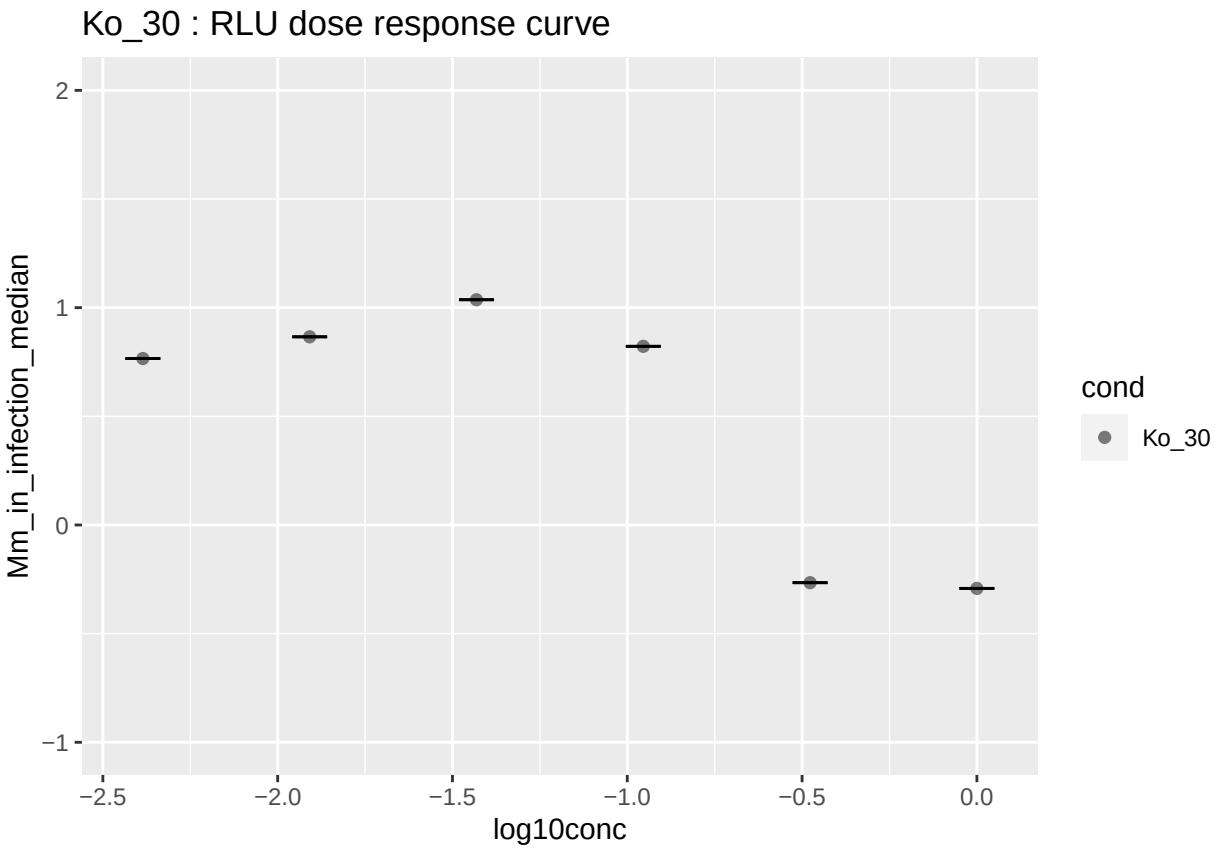

Ko_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

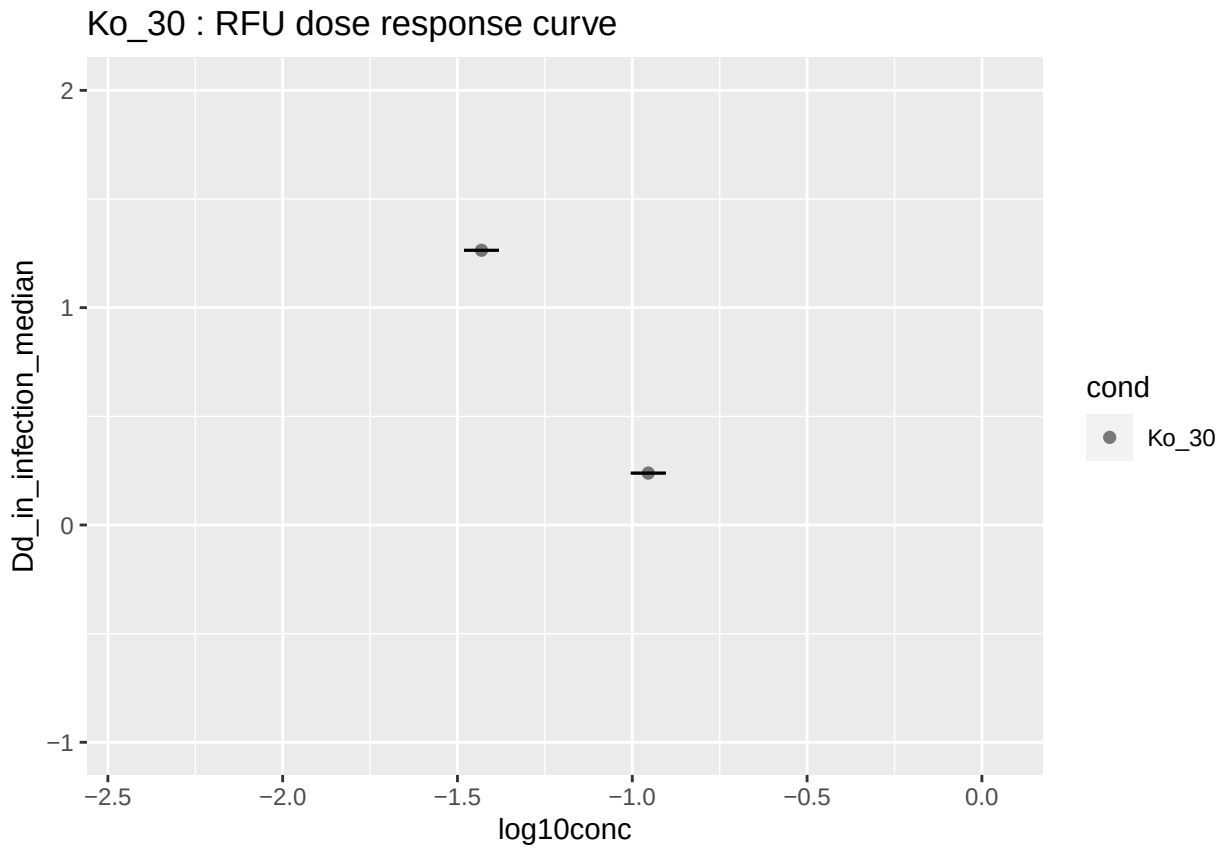

Ko_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

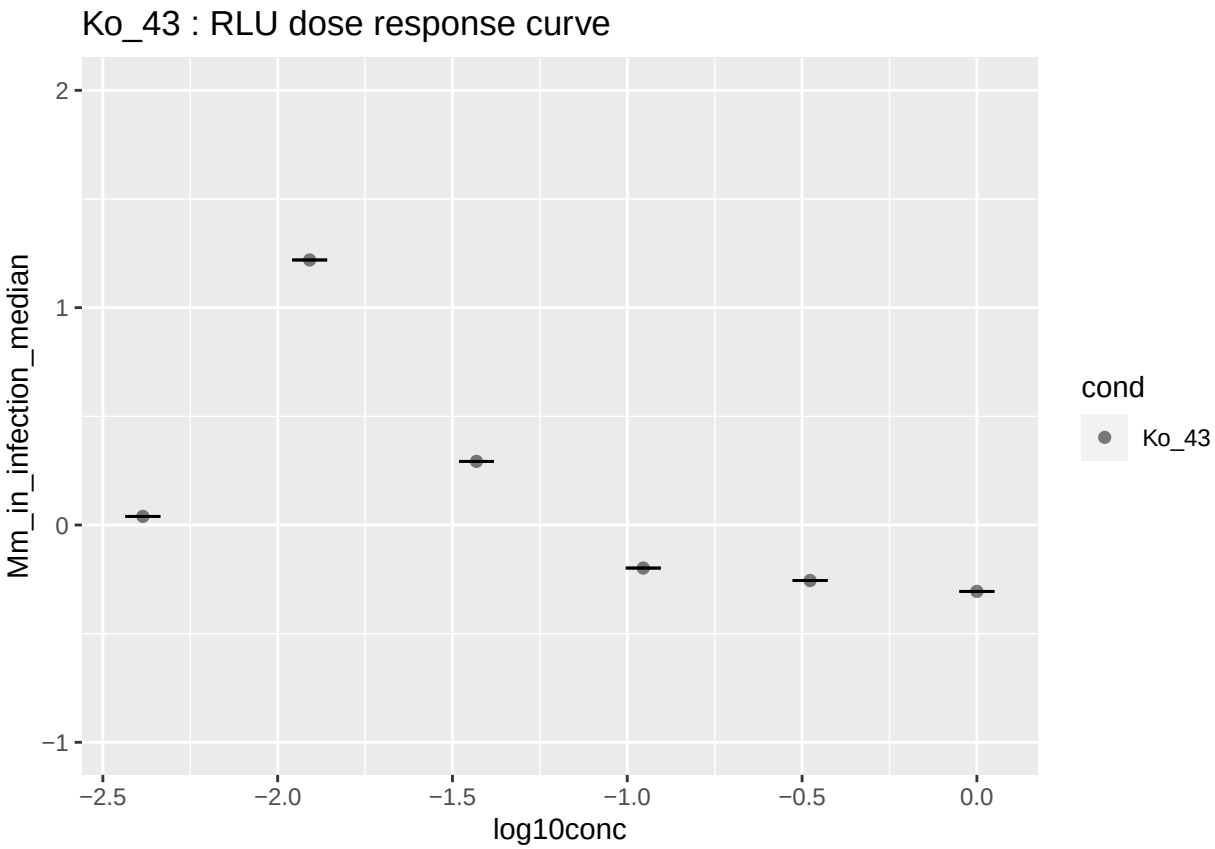

Ko_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

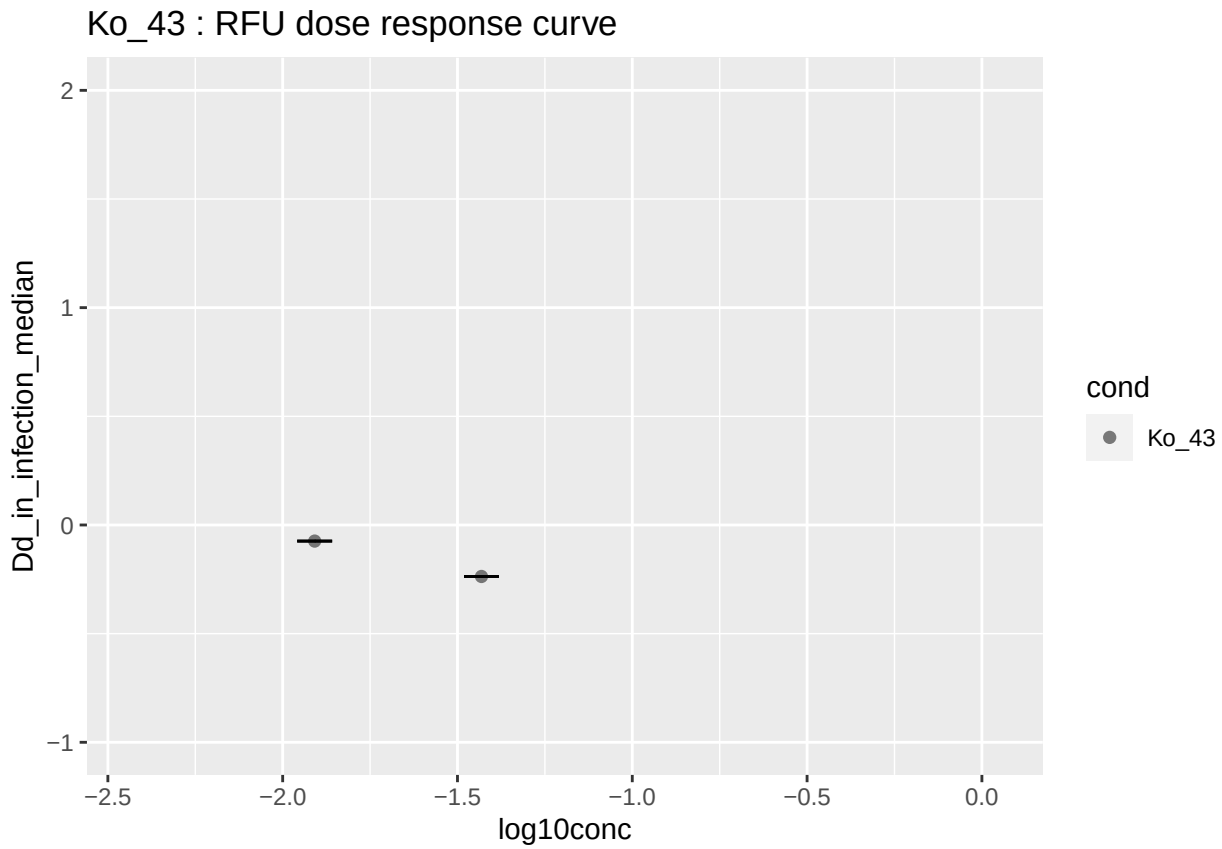

Ko_29 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

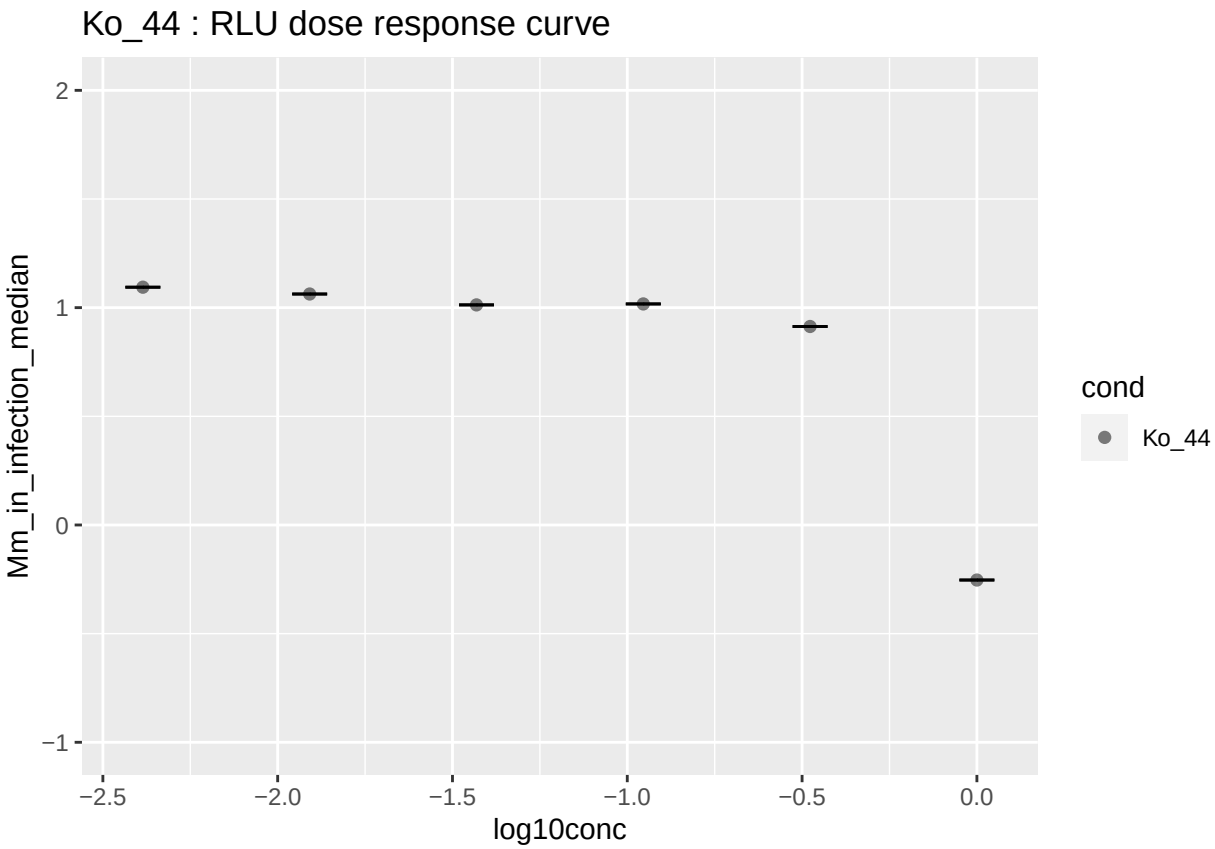

Ko_29 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

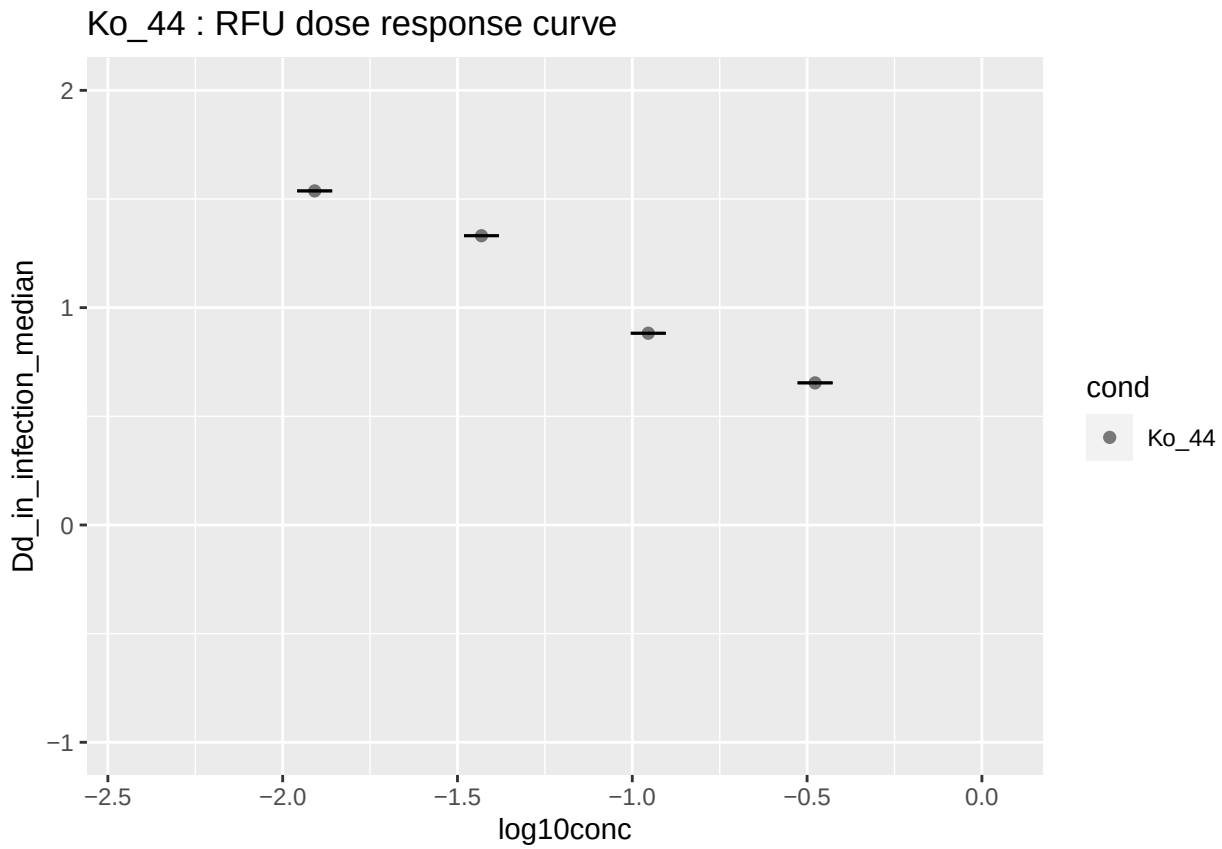

Ko_30 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

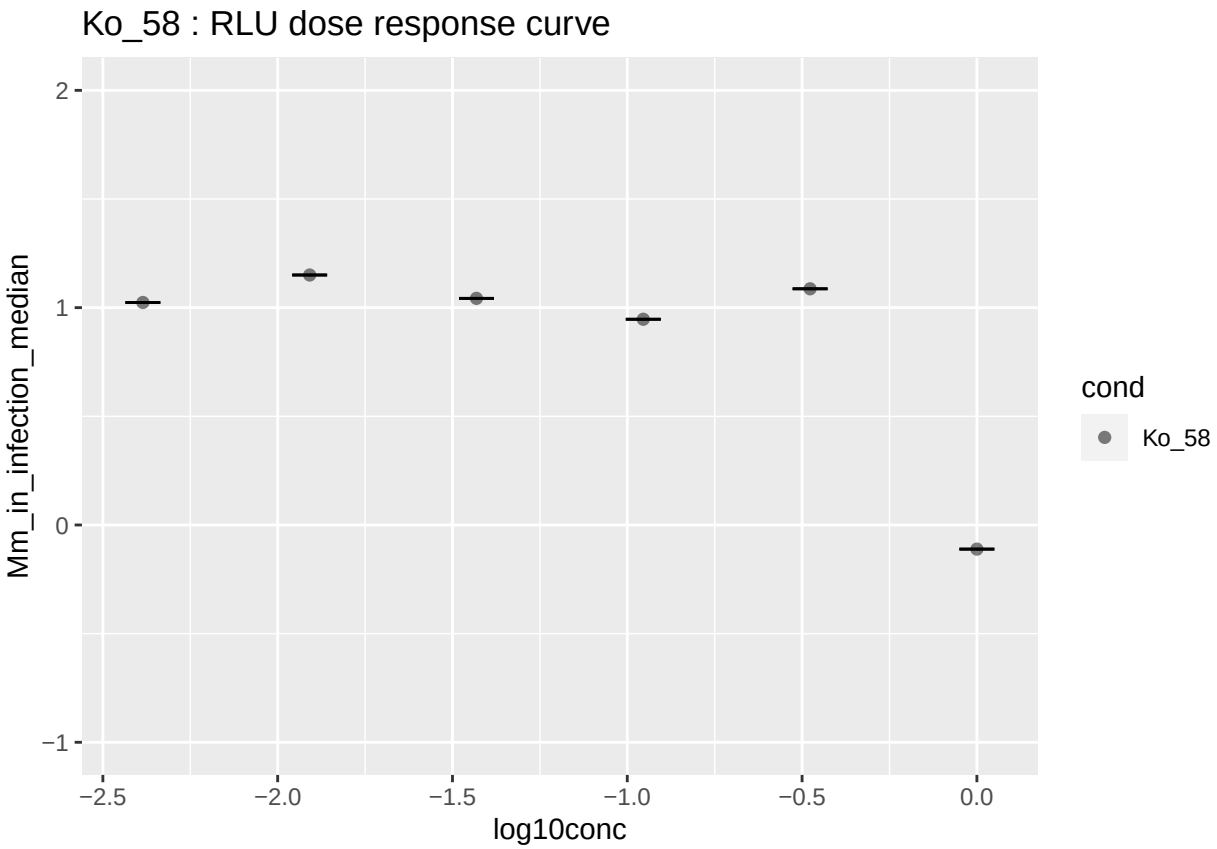

Ko_30 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

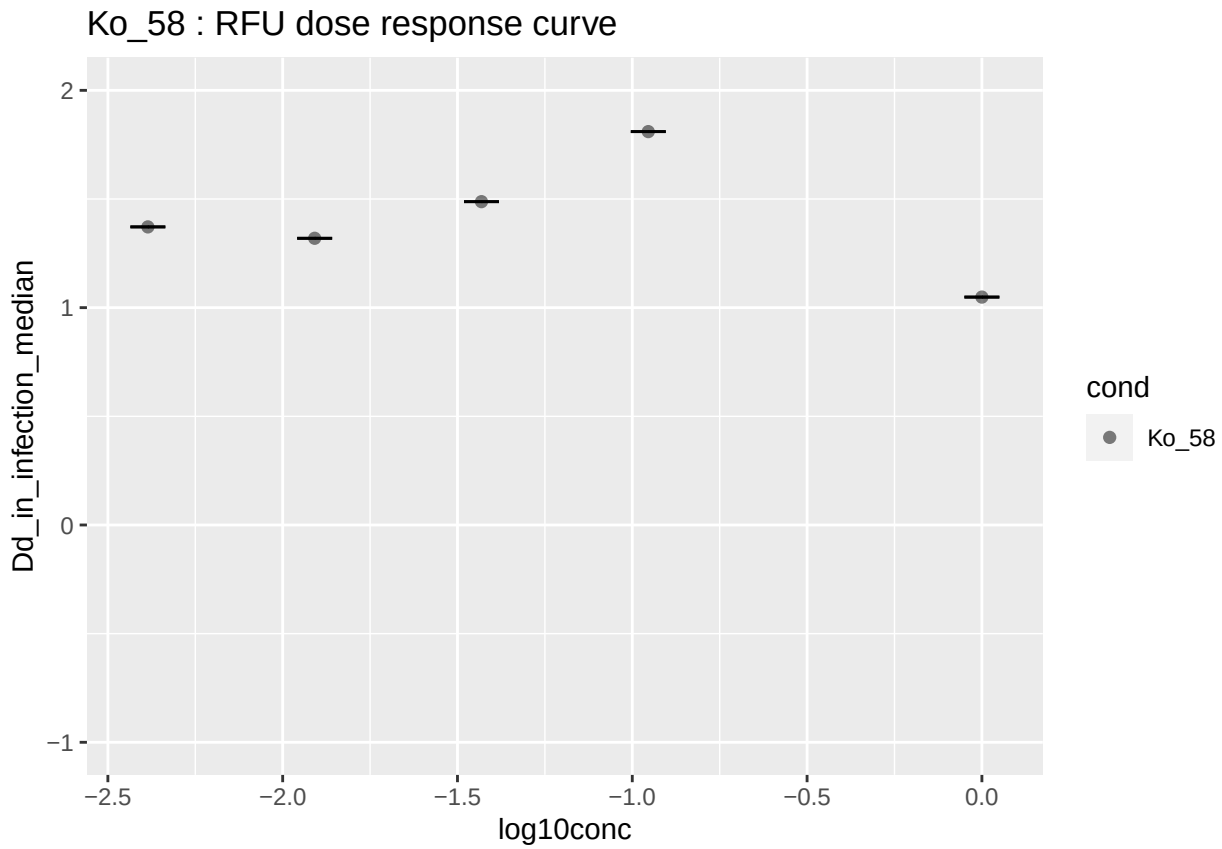

Ko_43 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

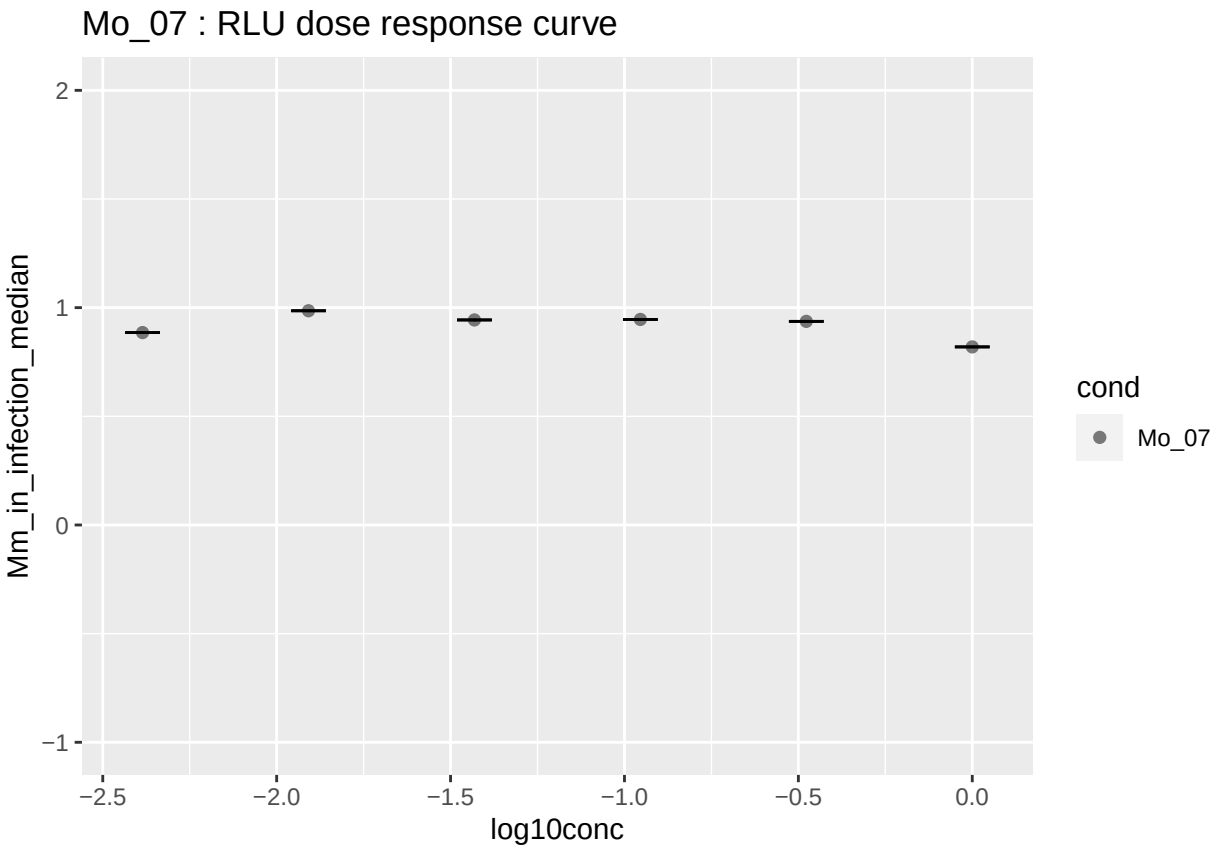

Ko_43 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

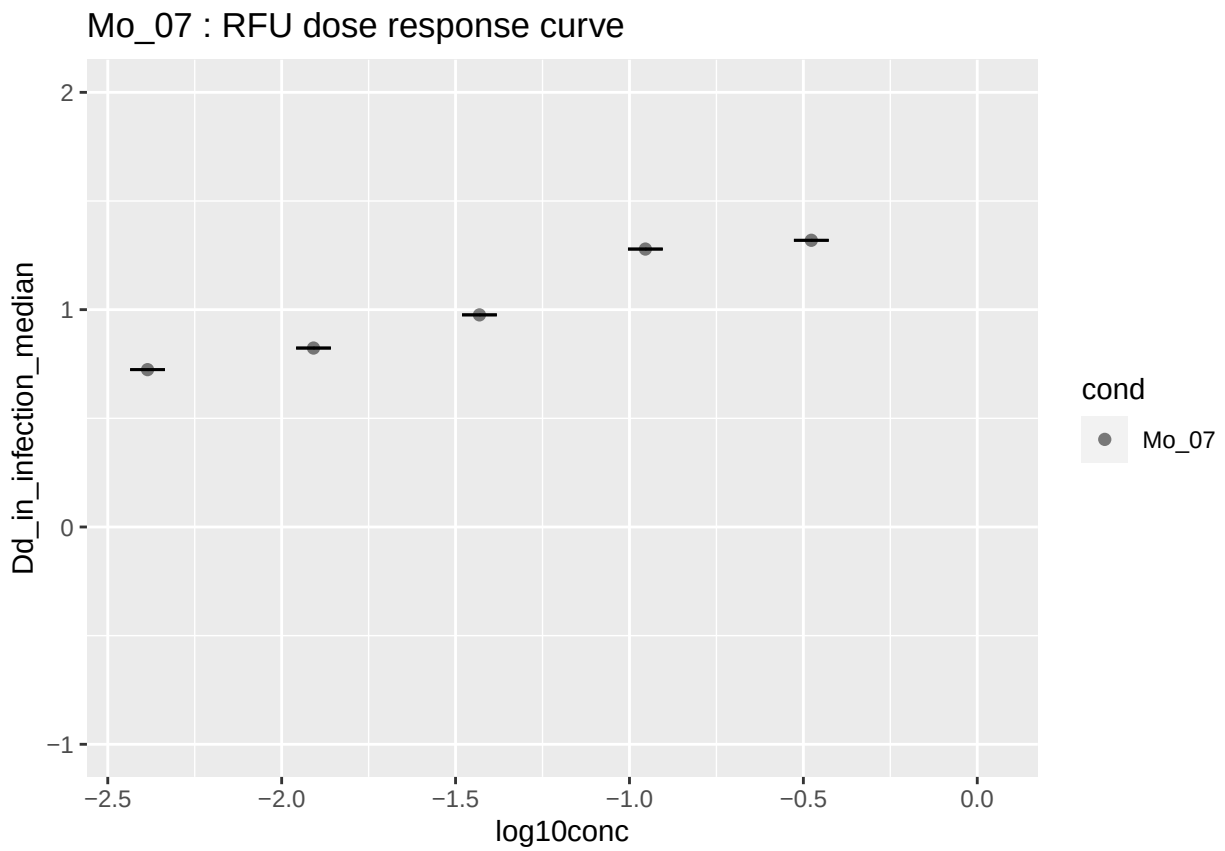

Ko_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

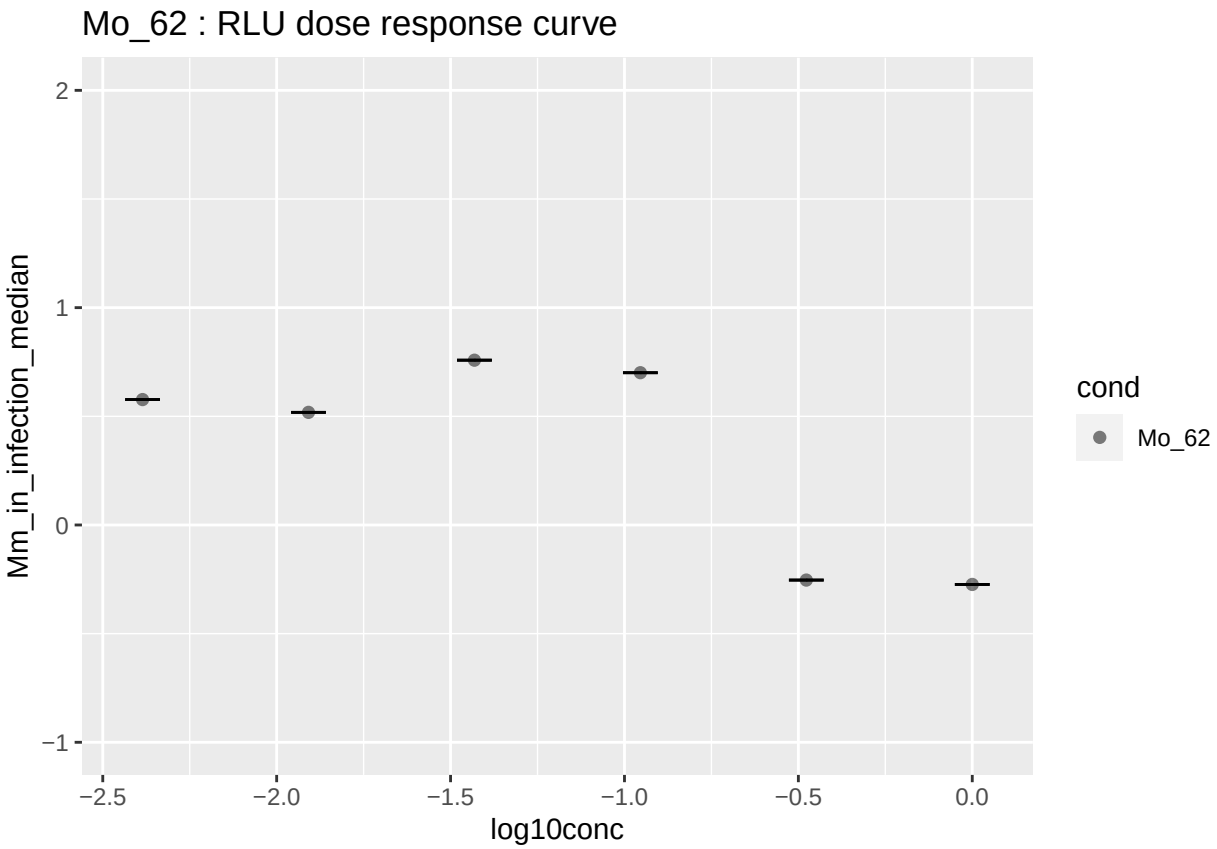

Ko_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

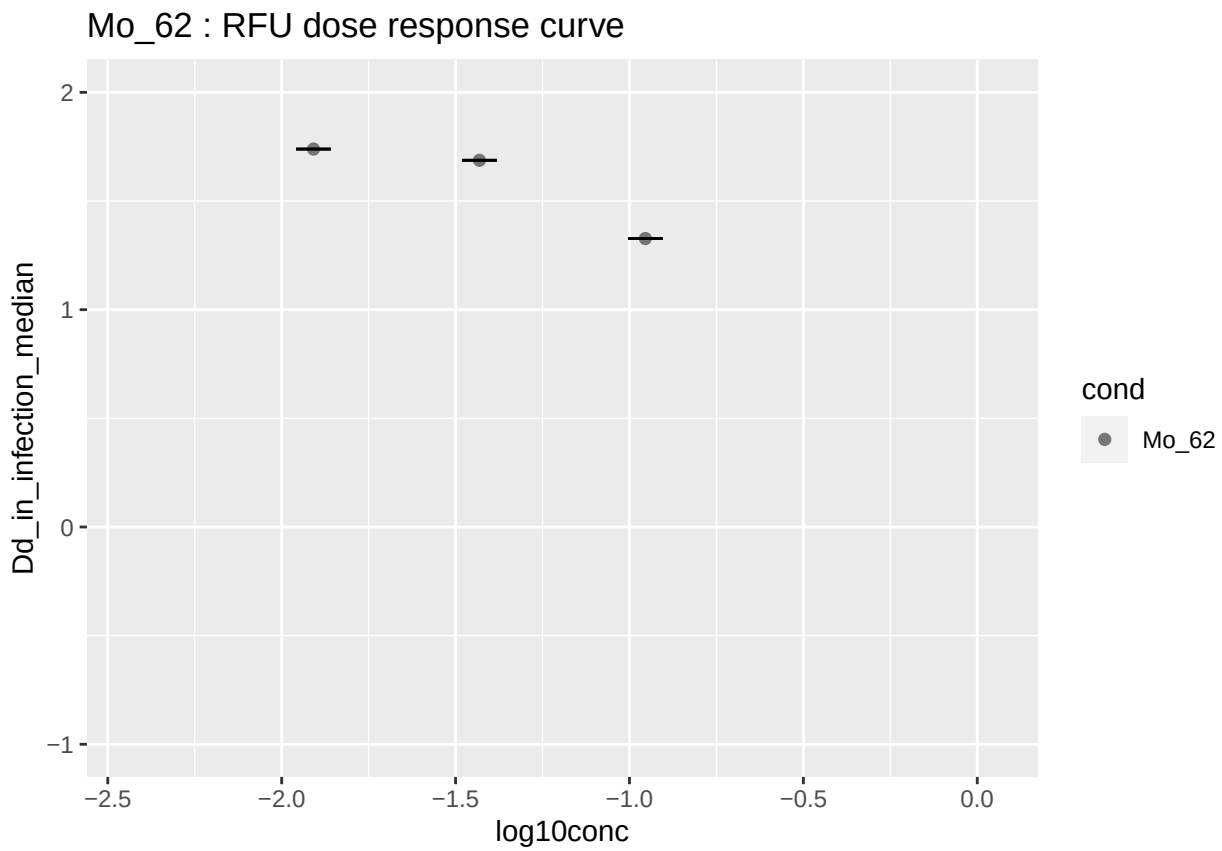

Ko_58 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

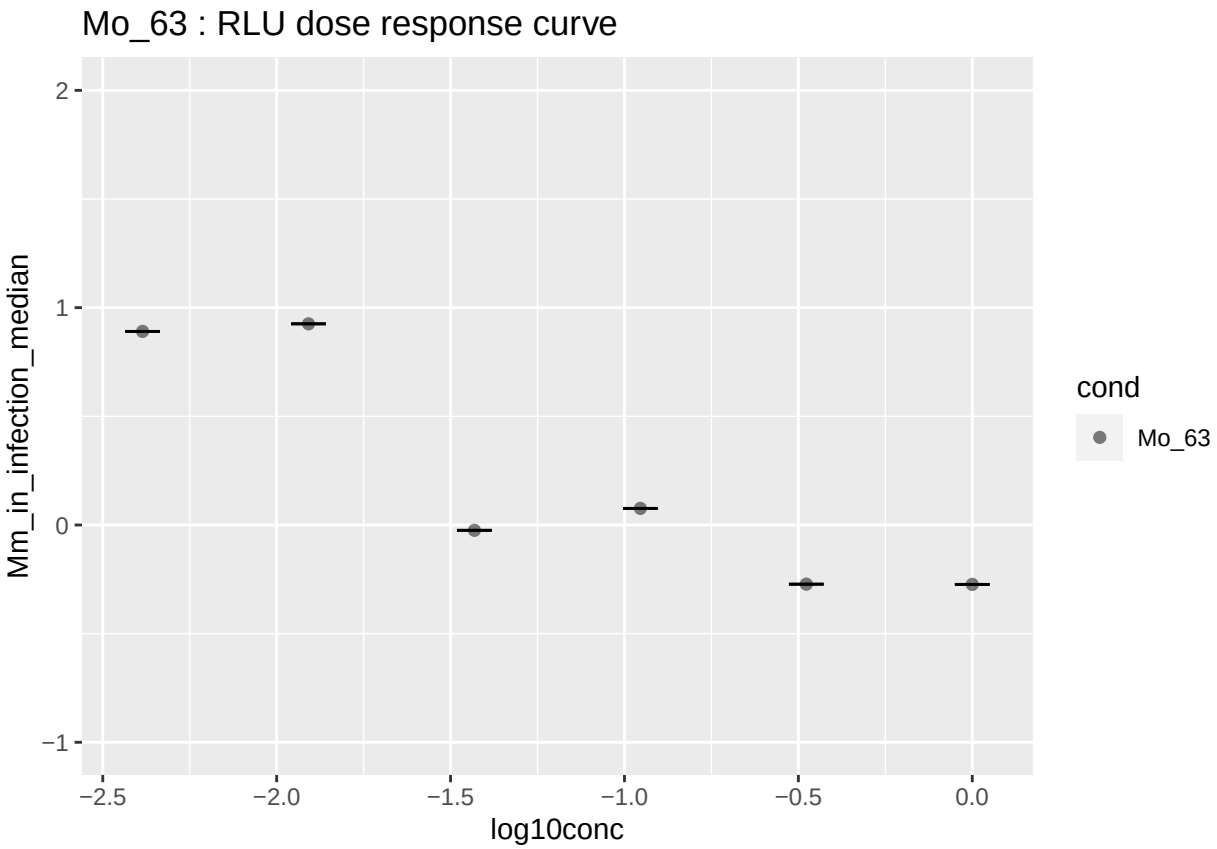

Ko_58 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

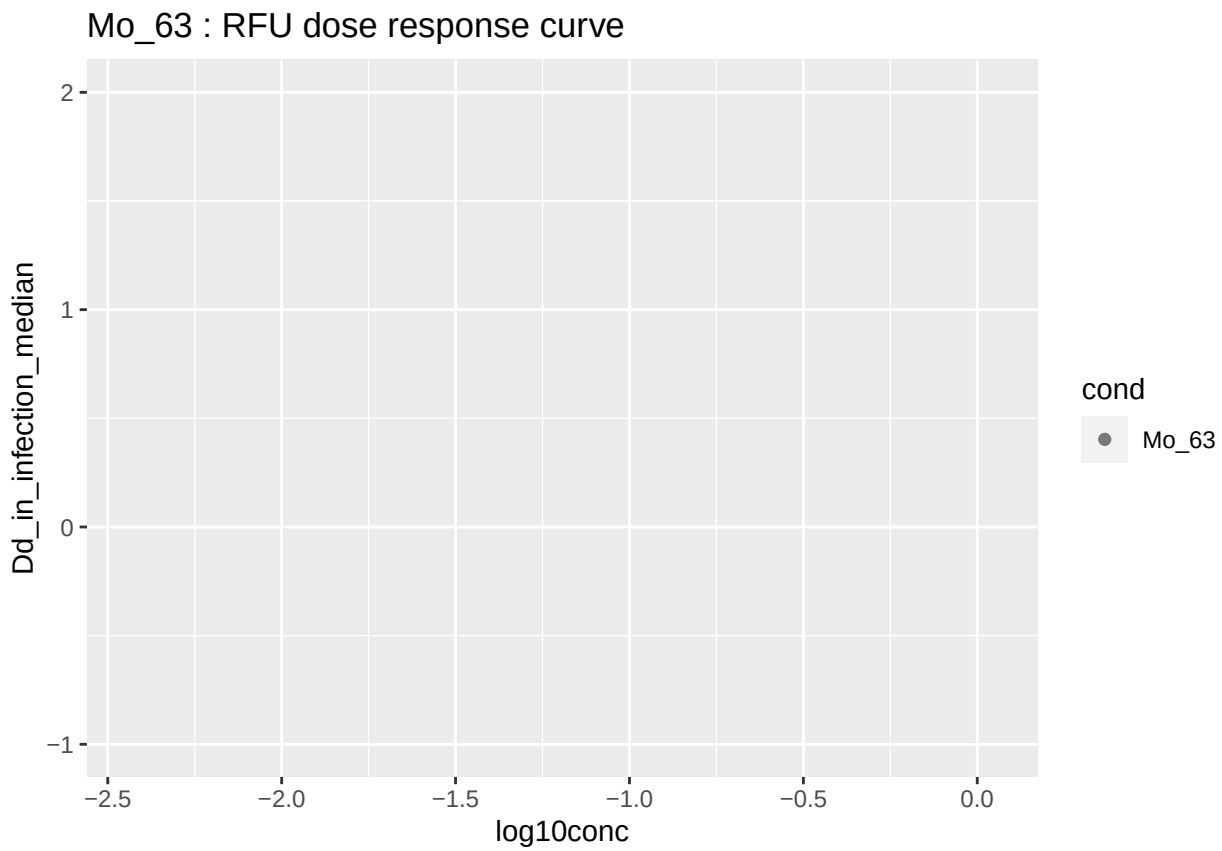

Mo_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

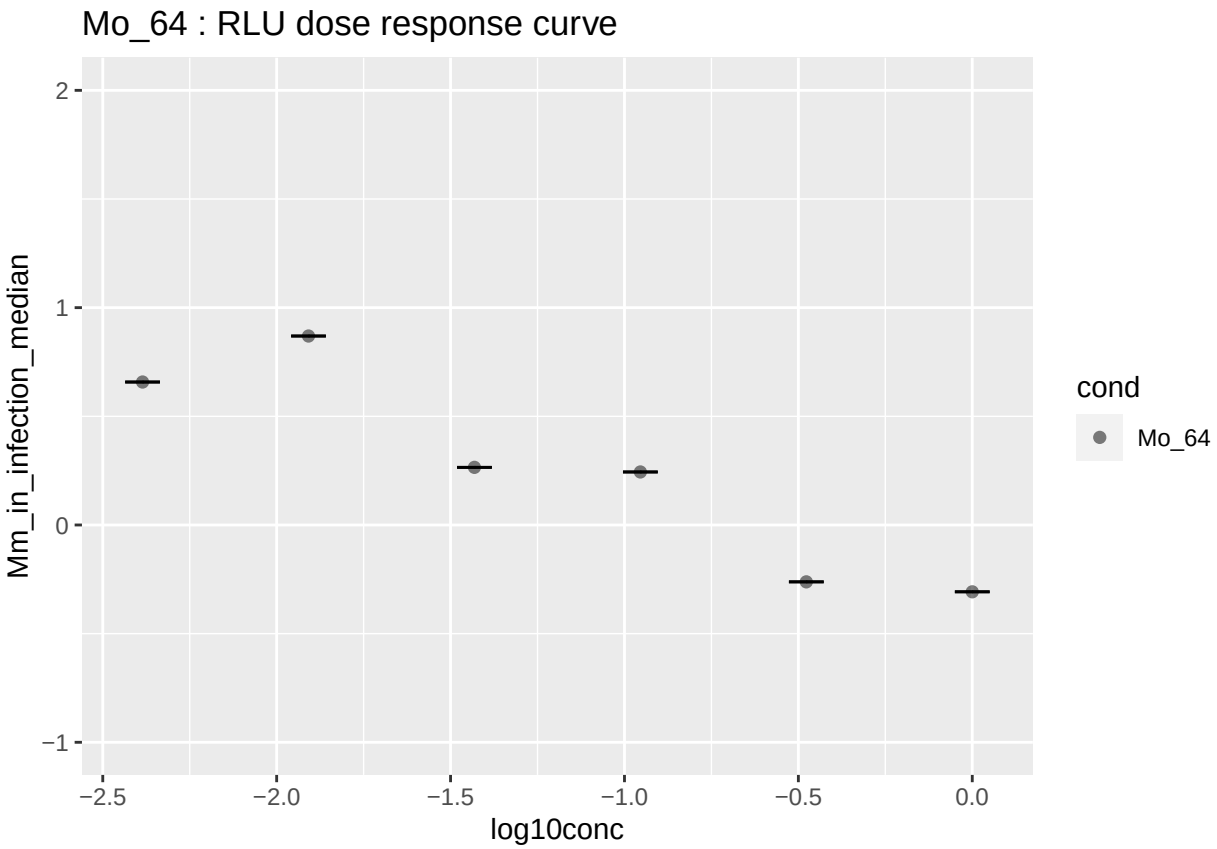

Mo_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

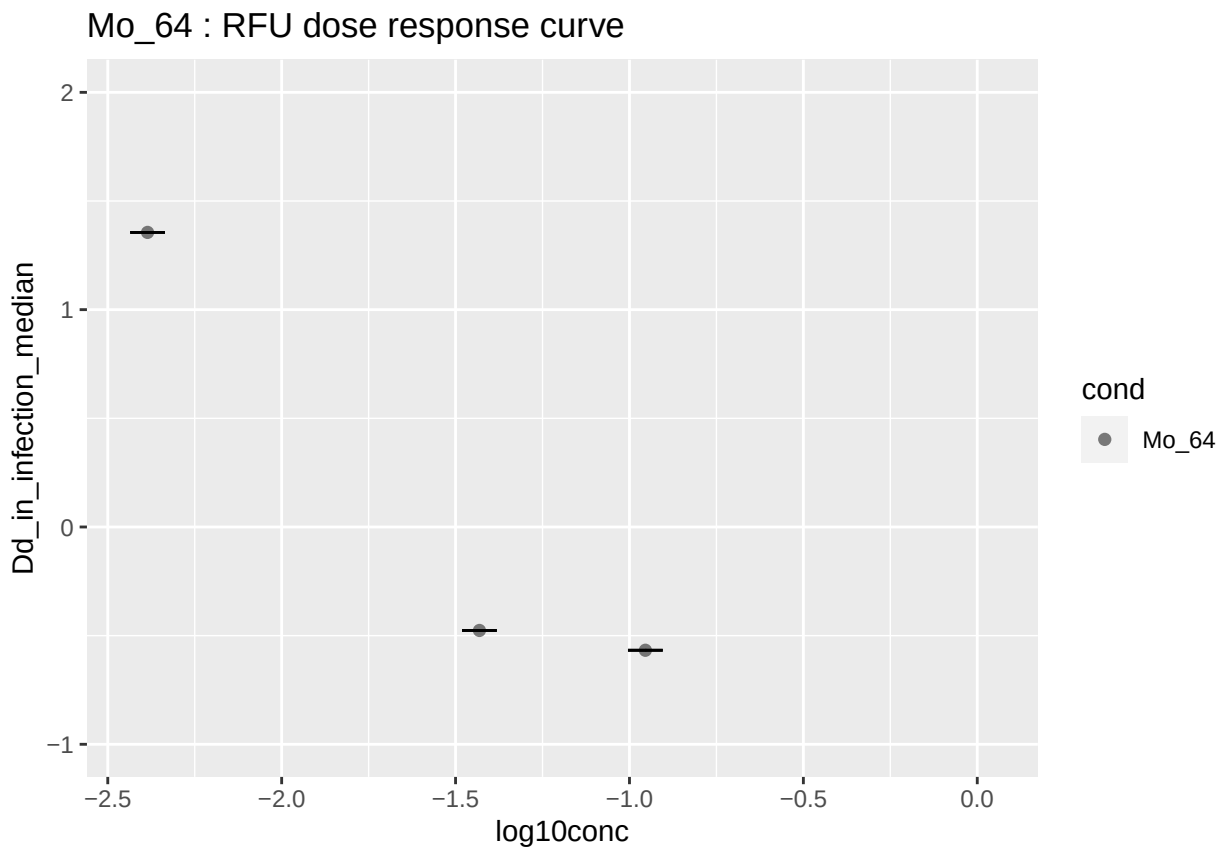

Mo_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

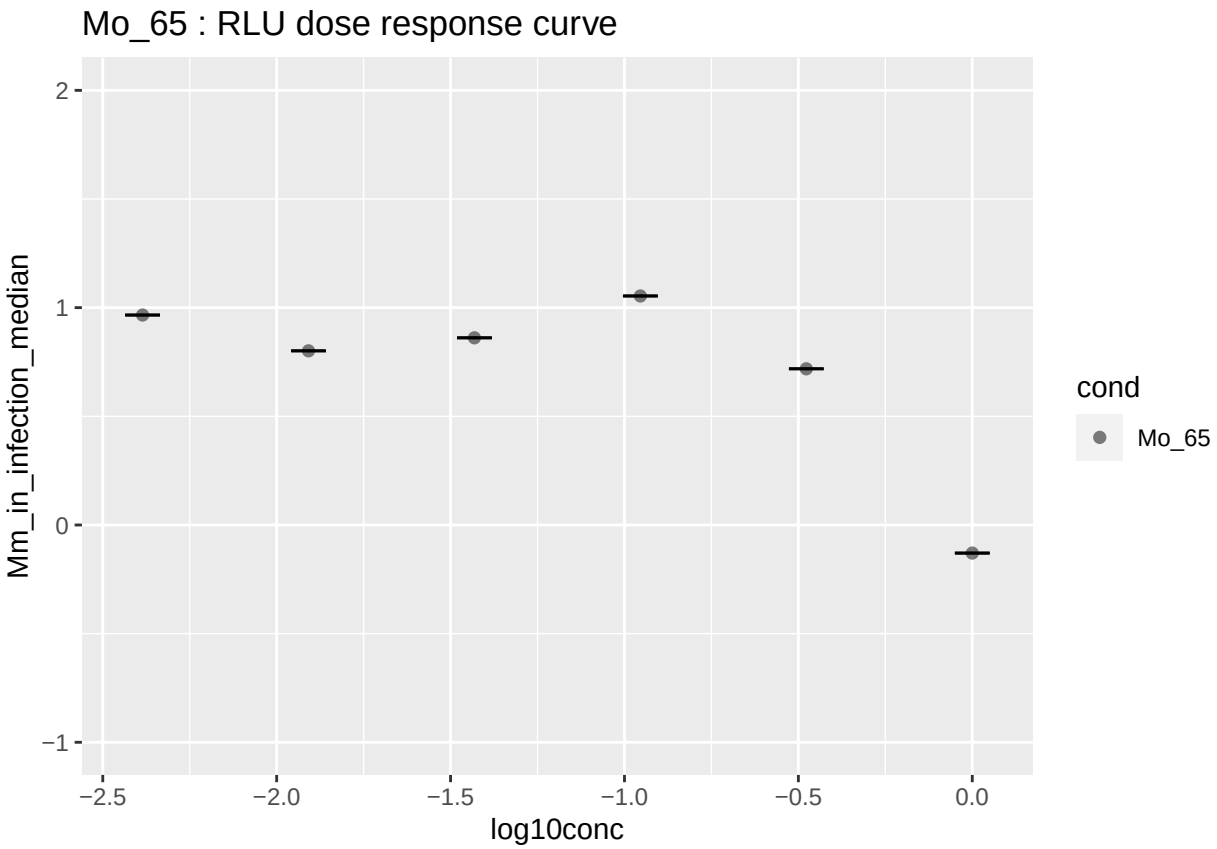

Mo_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

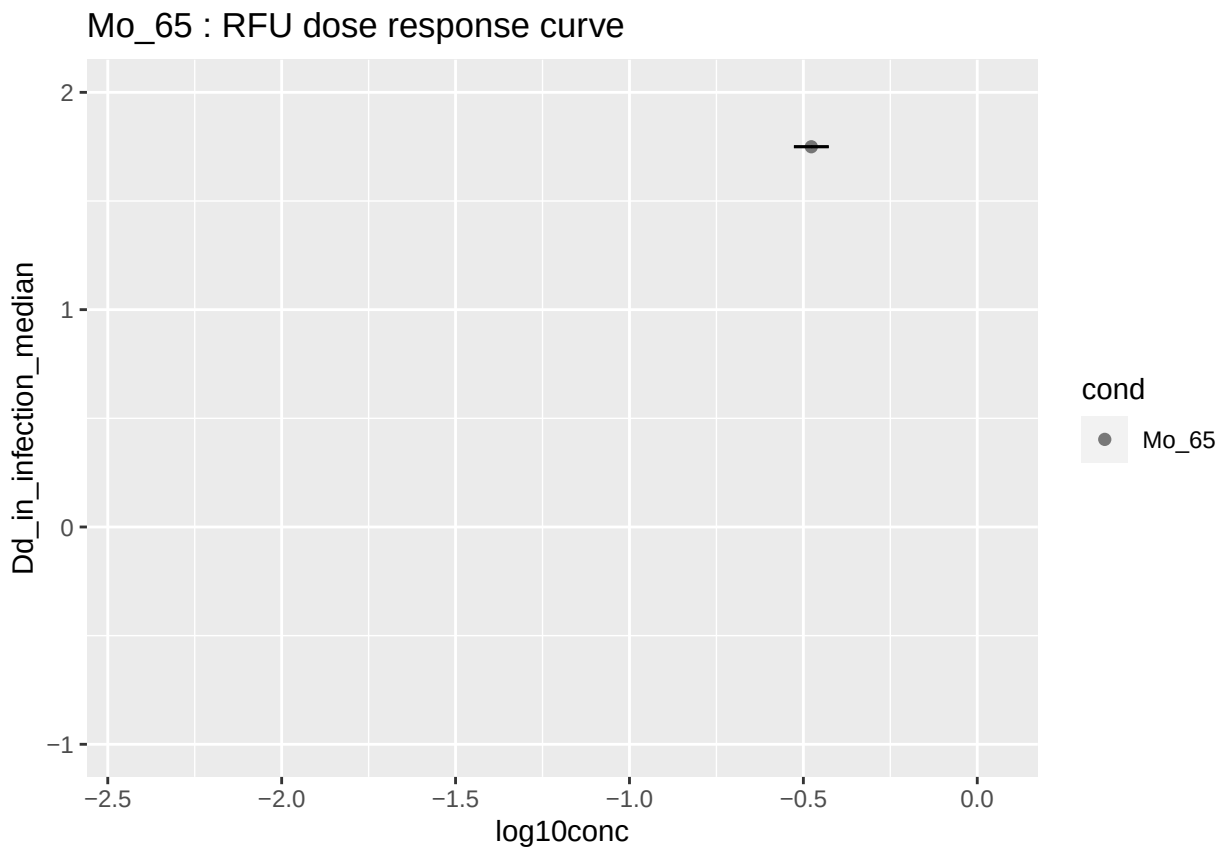

Mo_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

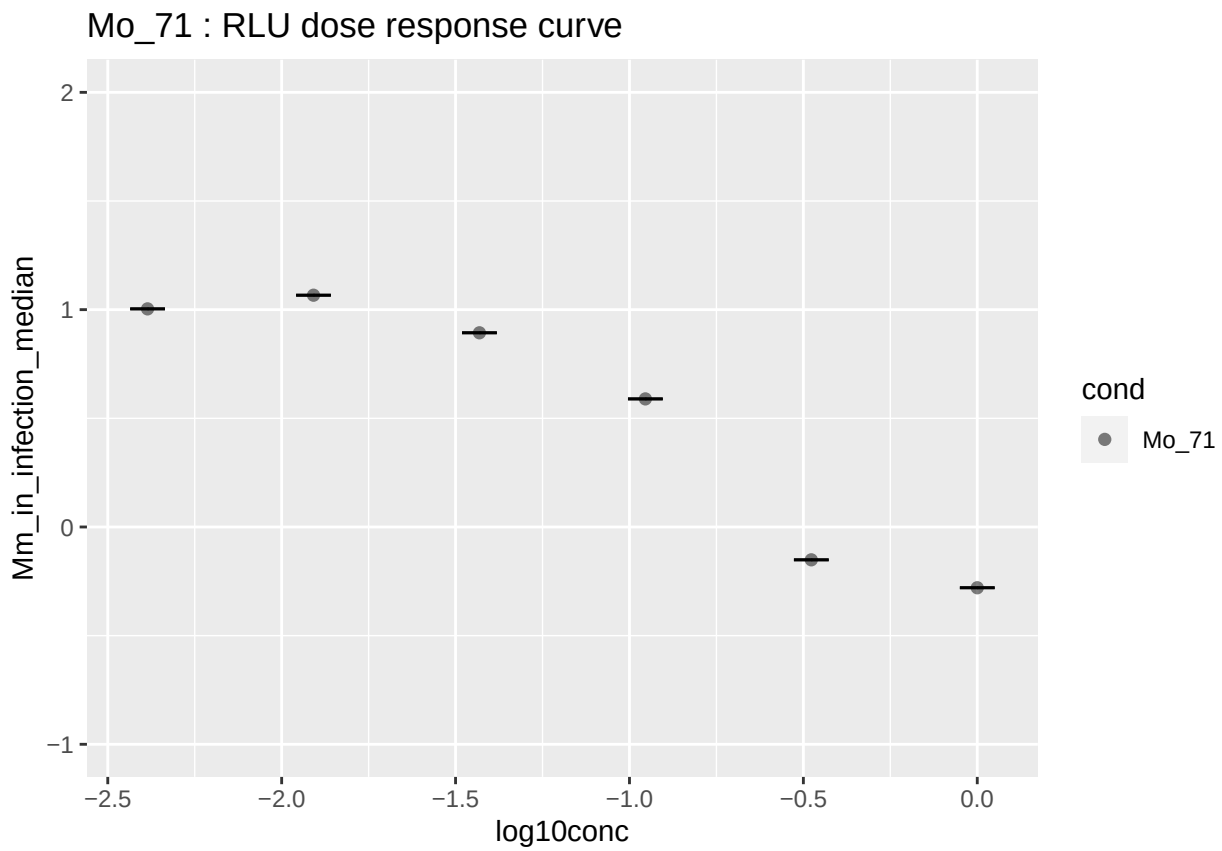

Mo_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

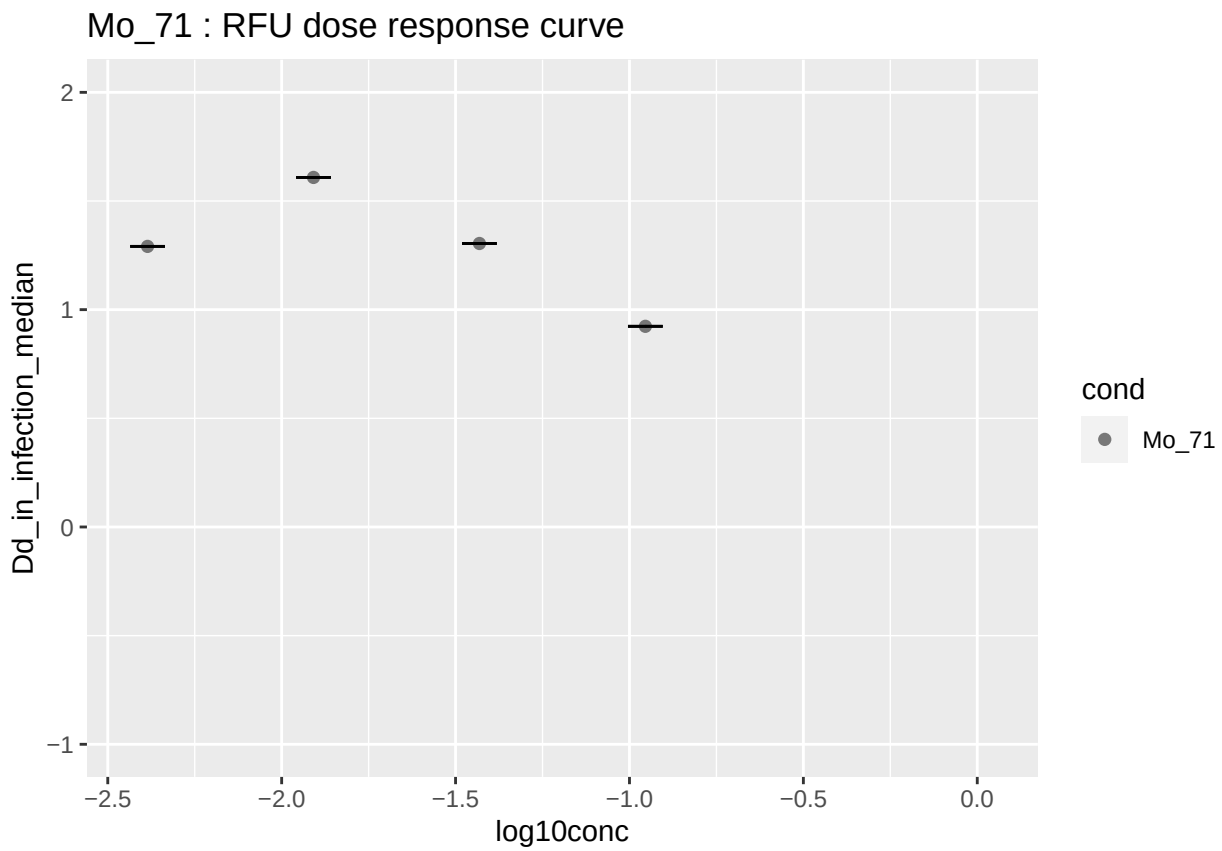

Mo_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

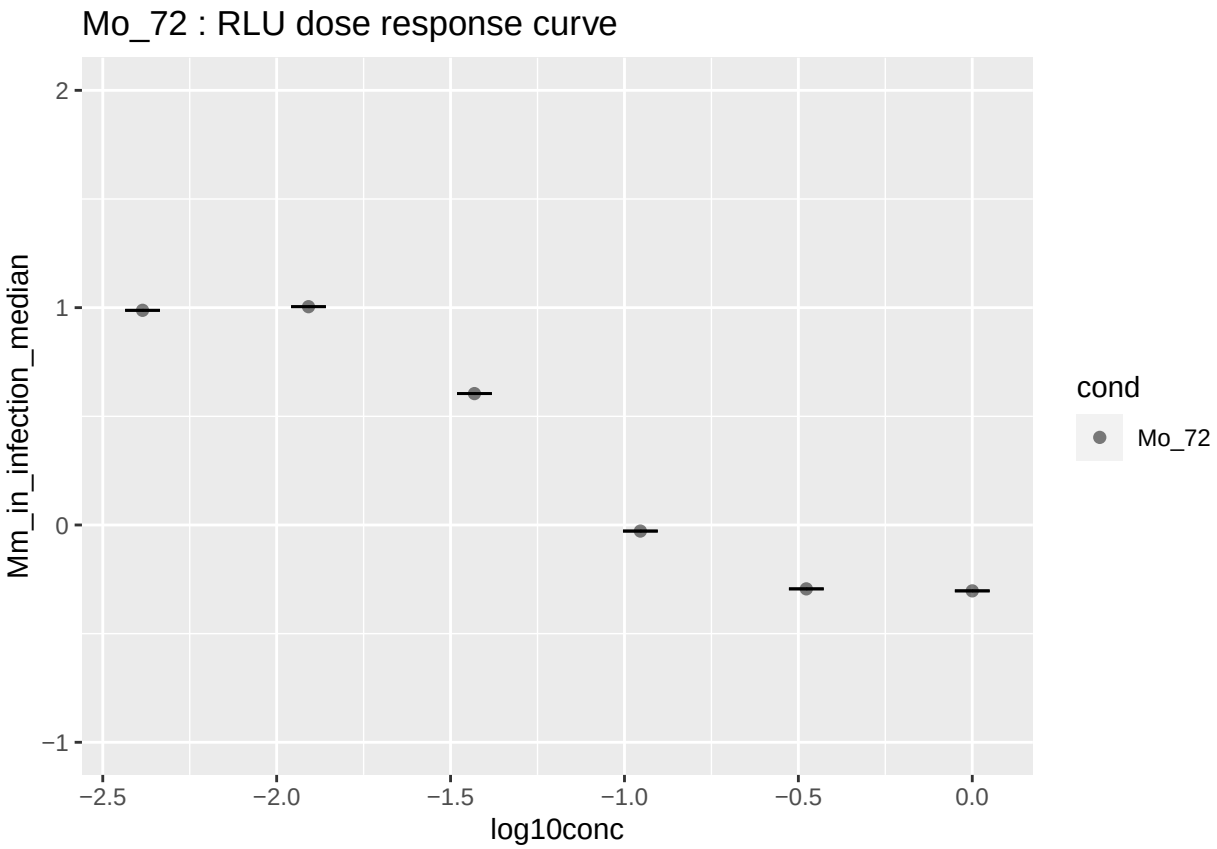

Mo_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

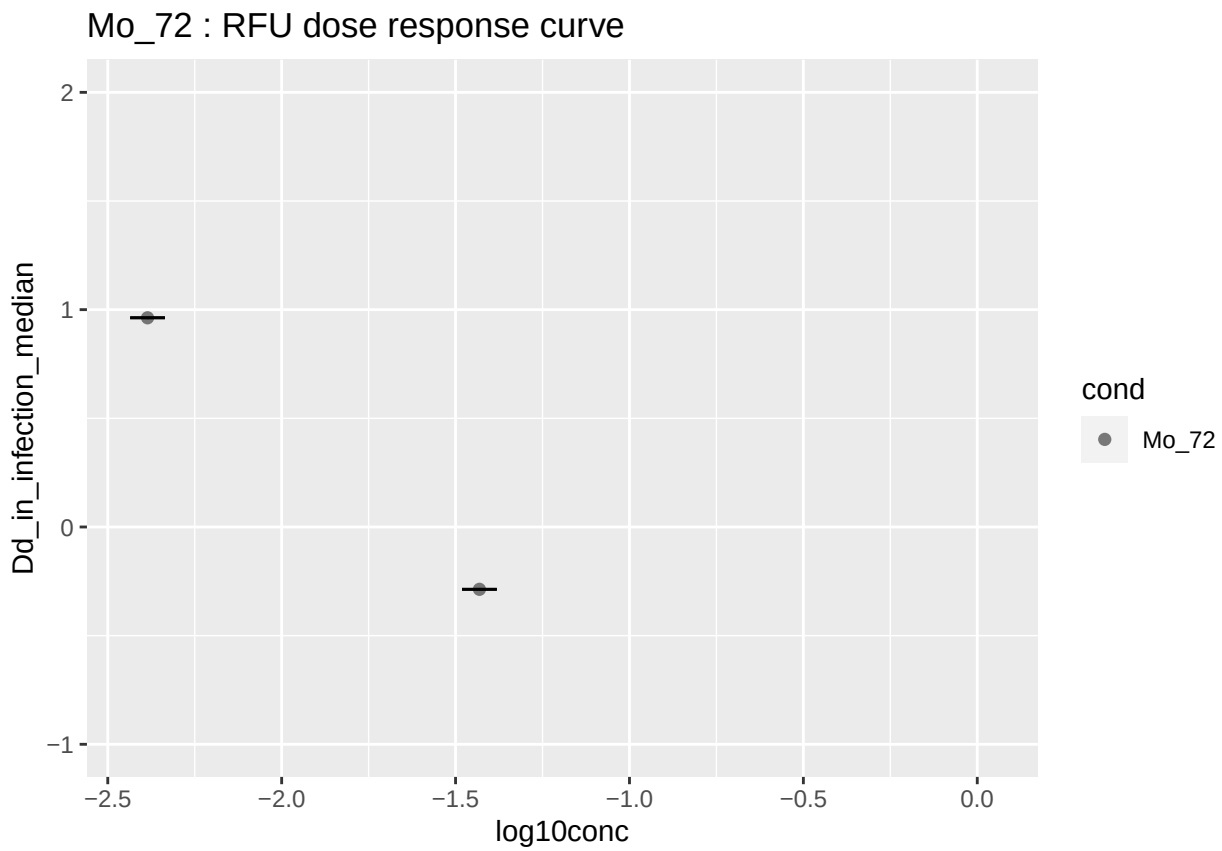

Mo_65 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

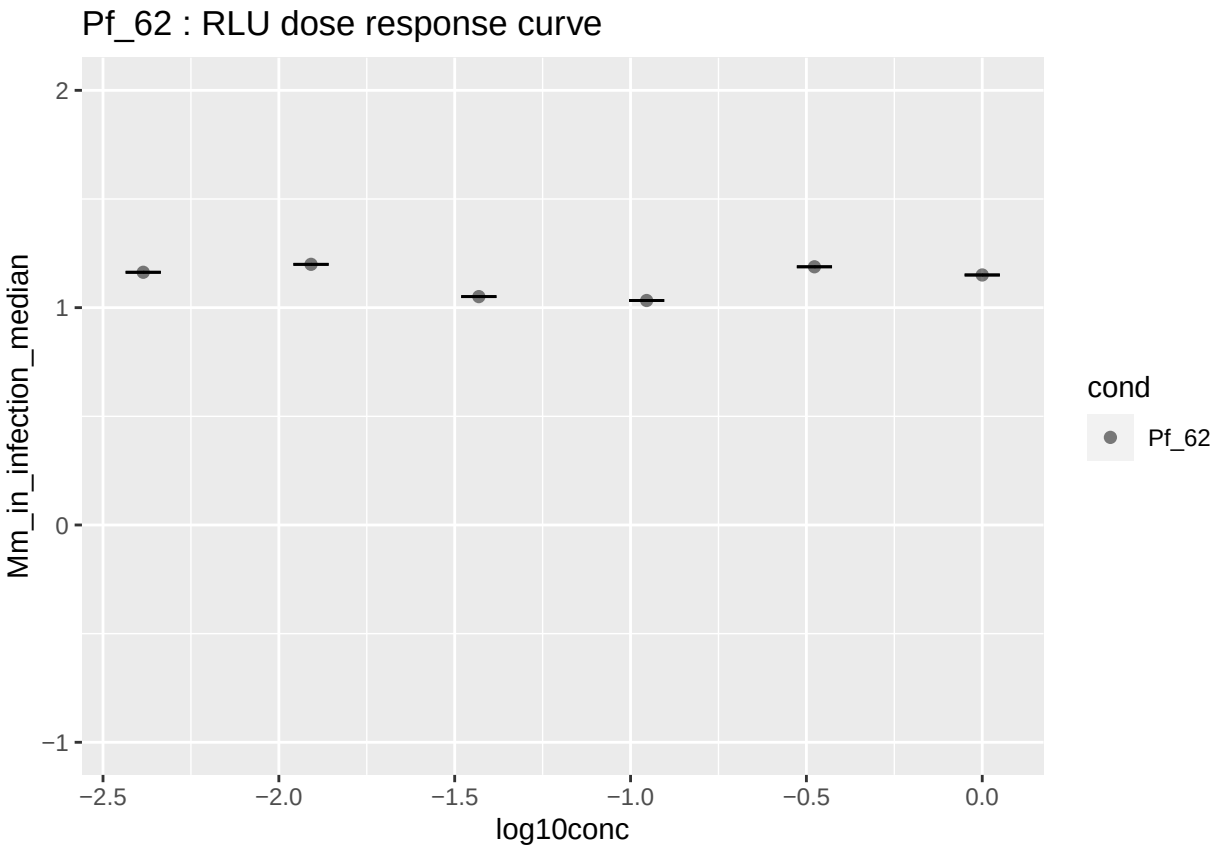

Mo_65 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

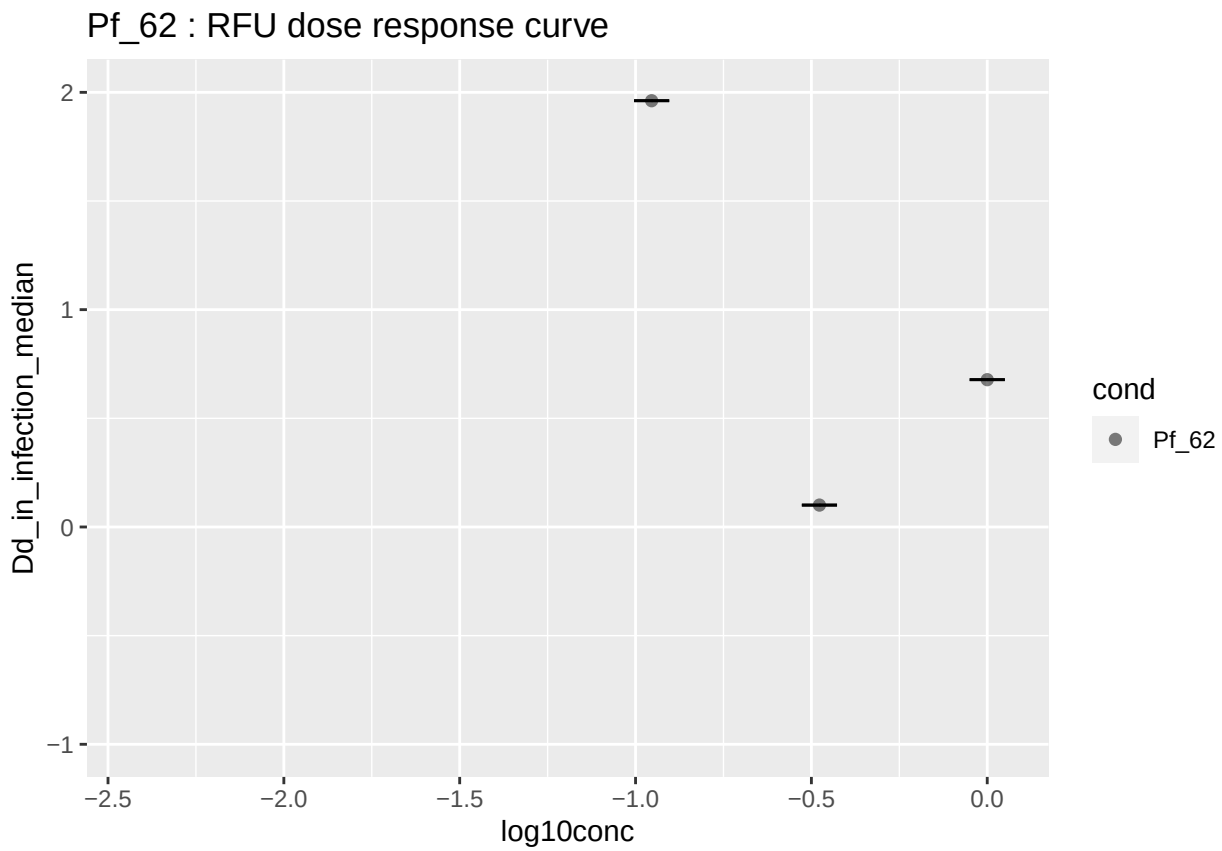

Mo_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

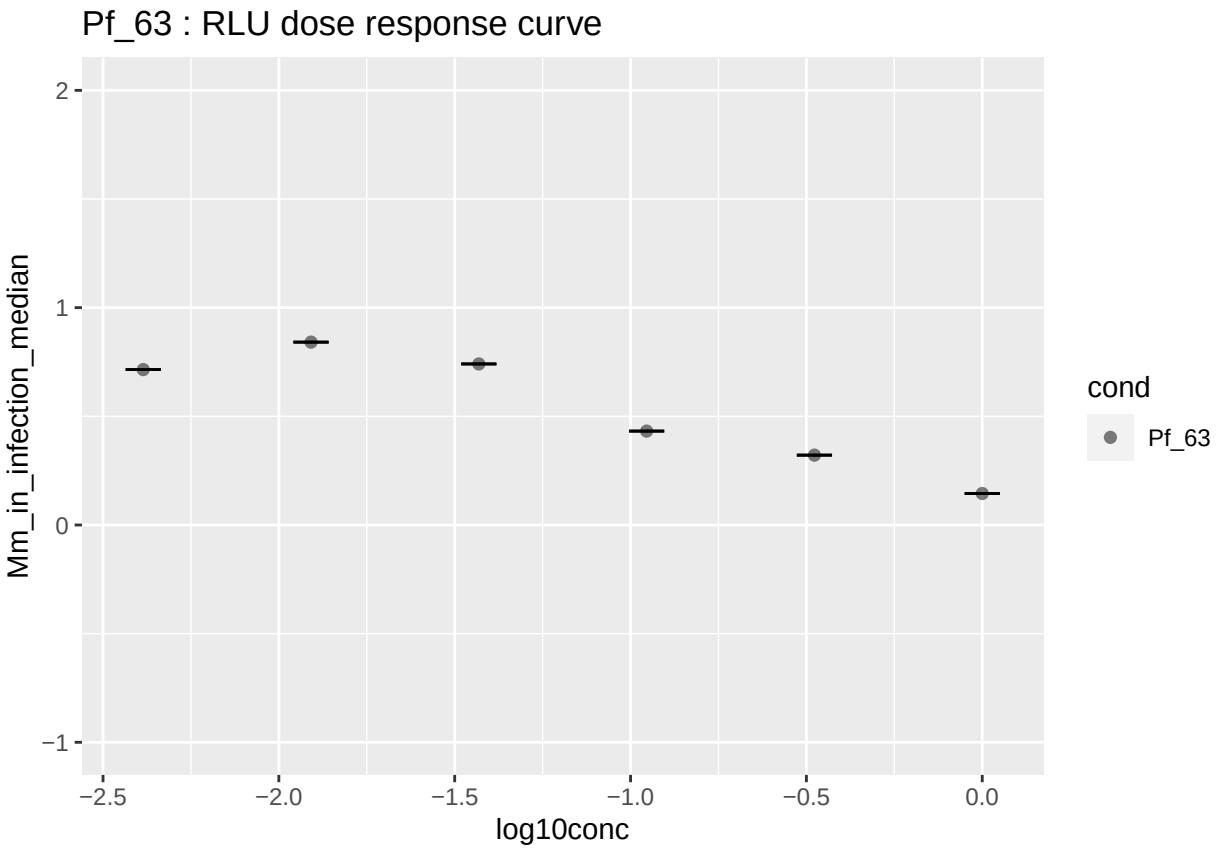

Mo_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

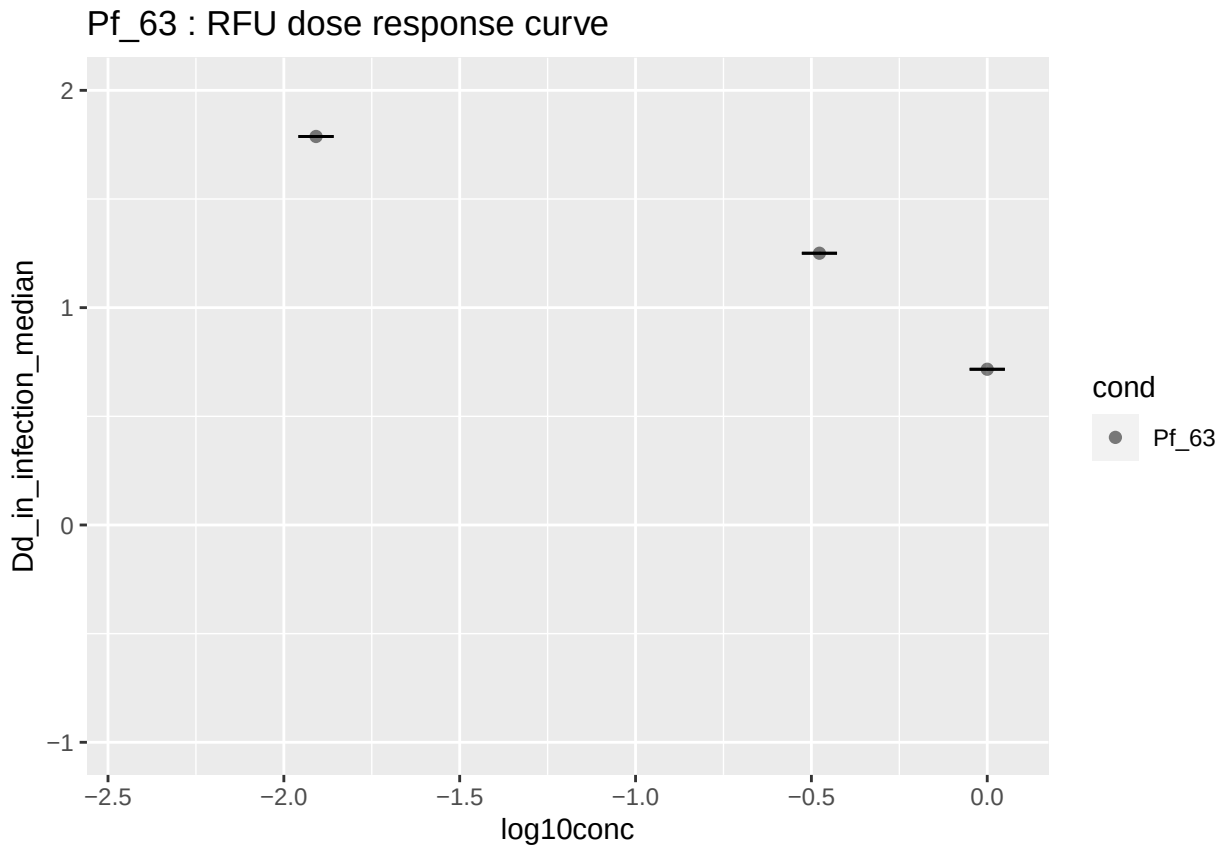

Mo_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

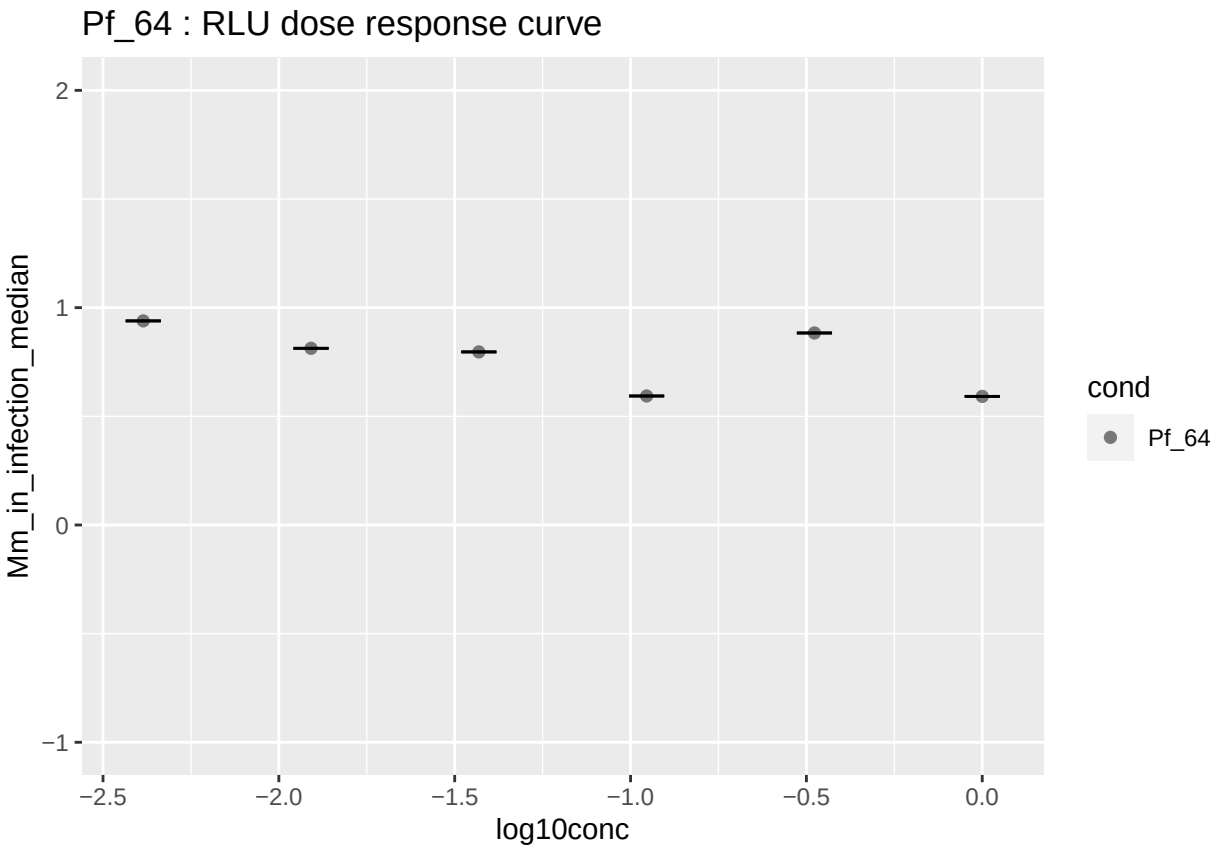

Mo_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

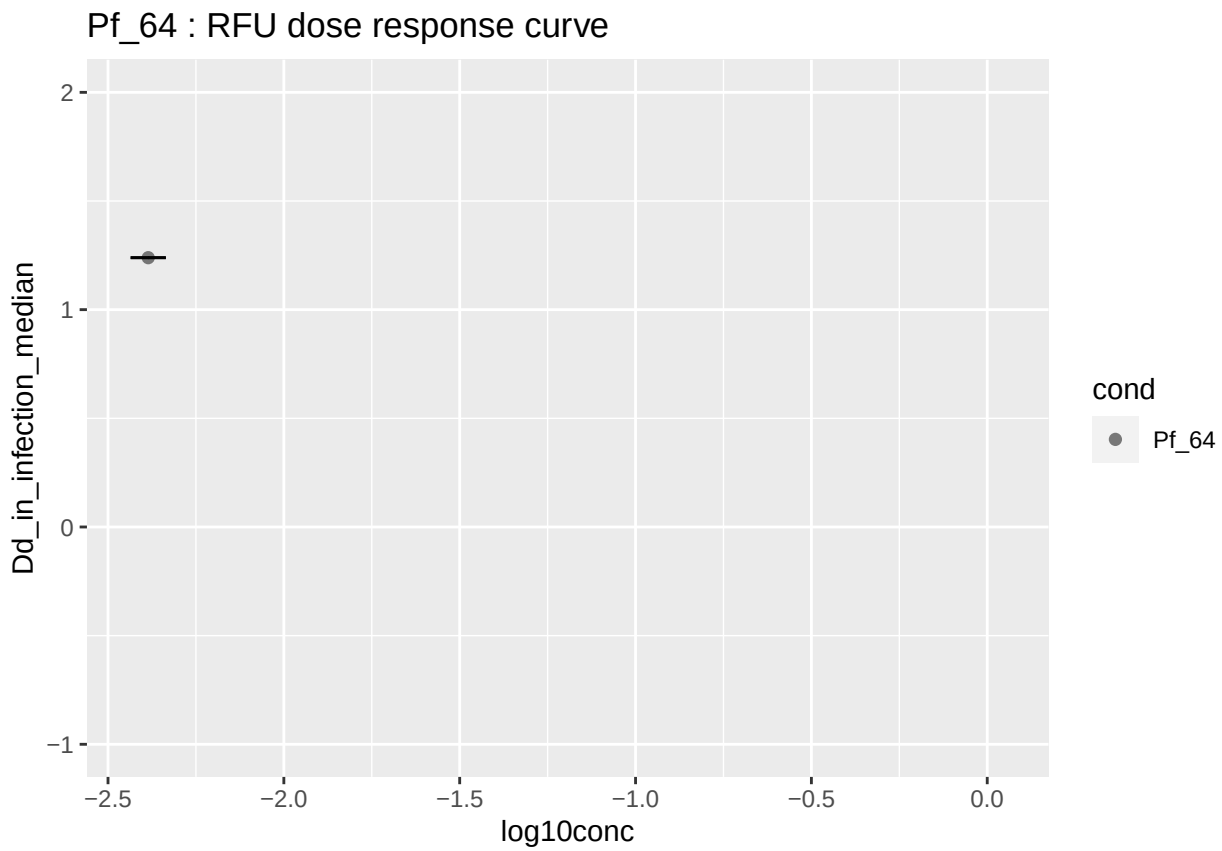

Pf_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

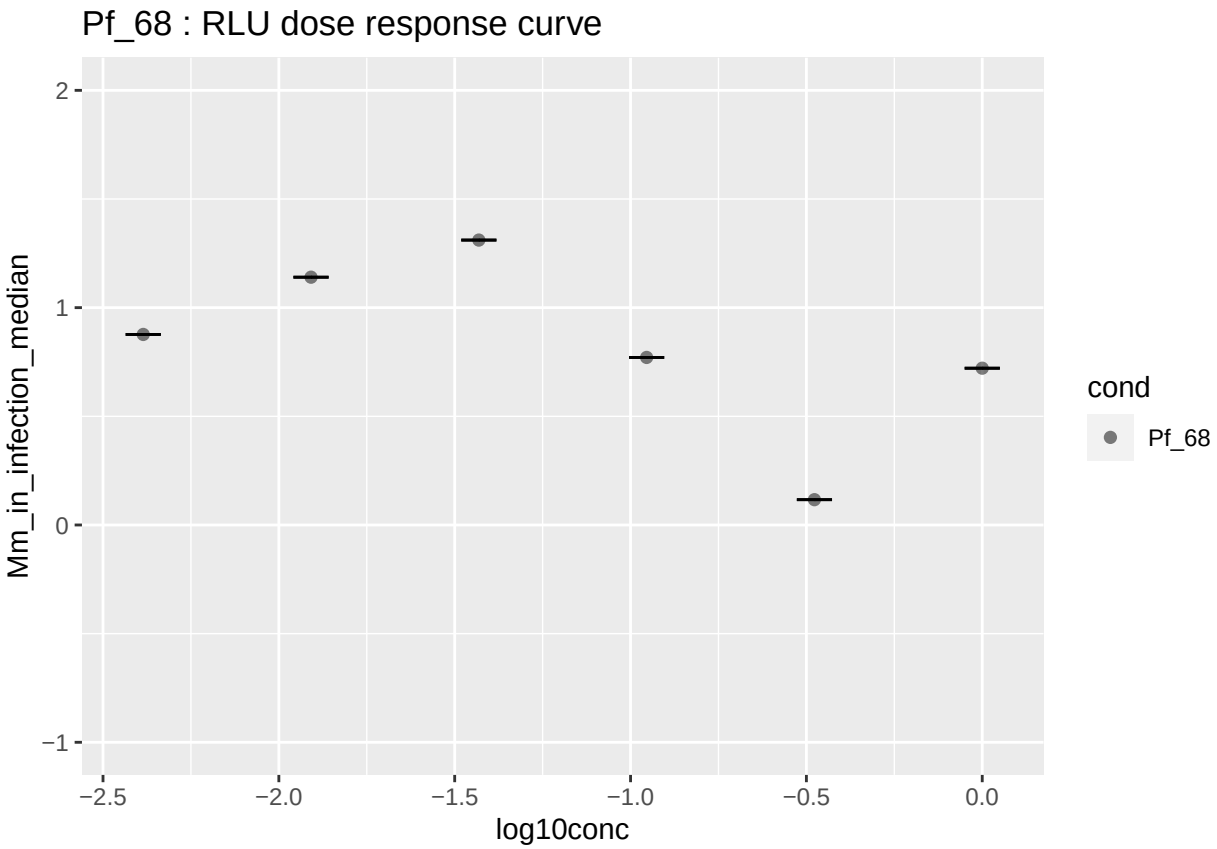

Pf_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

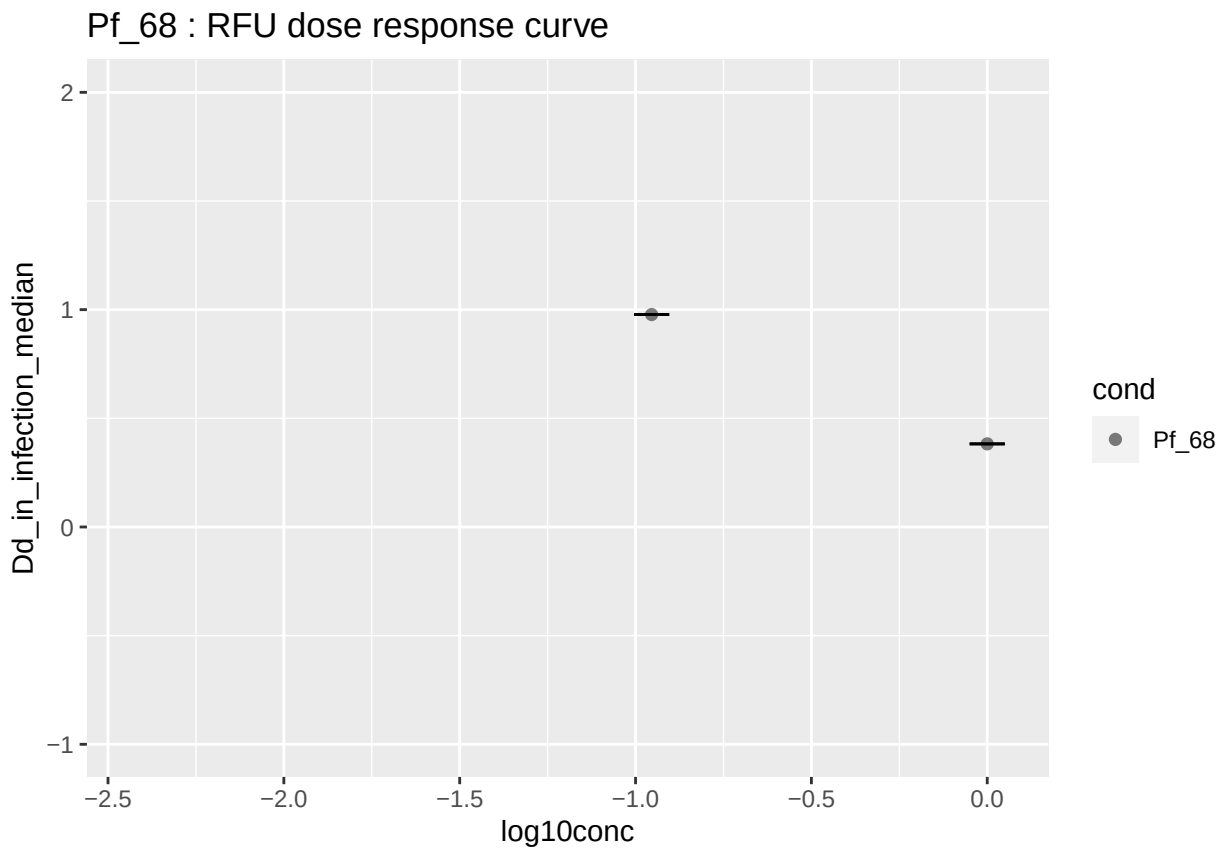

Pf_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

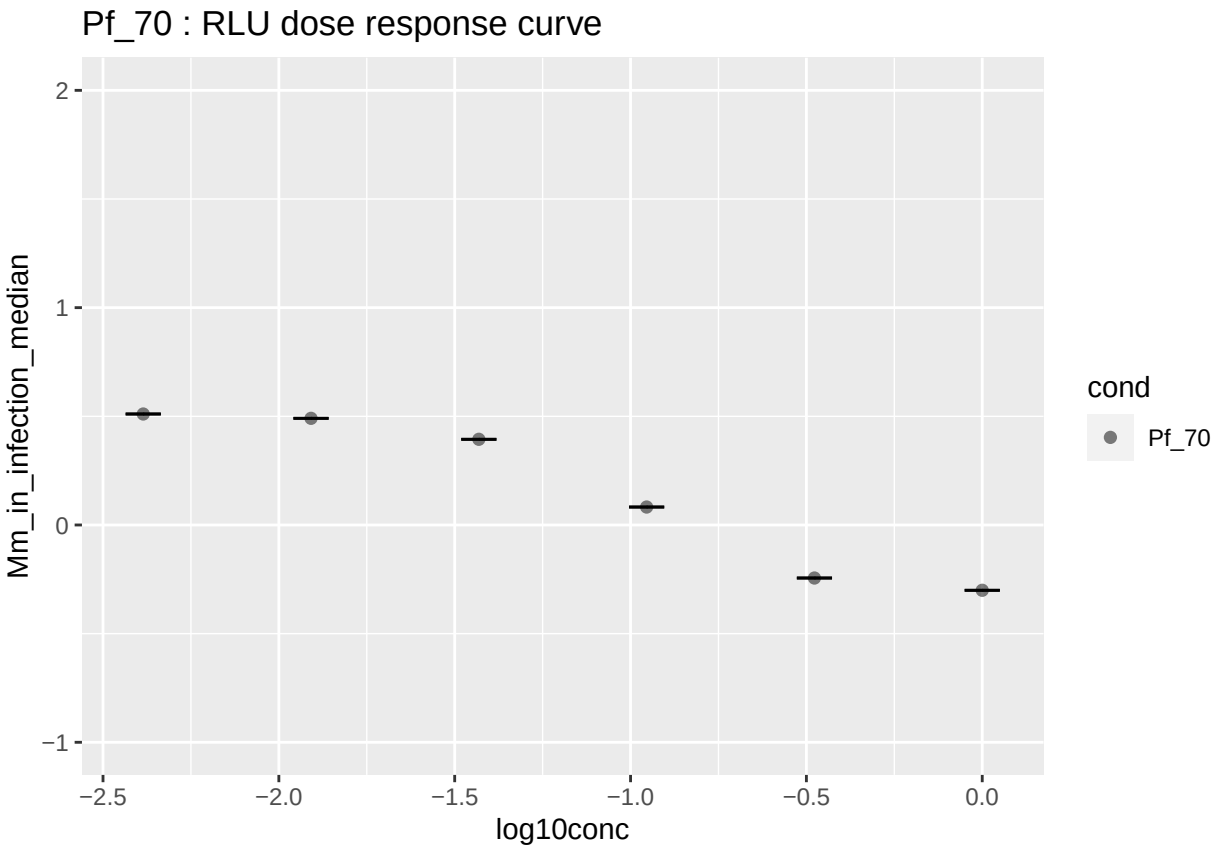

Pf_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

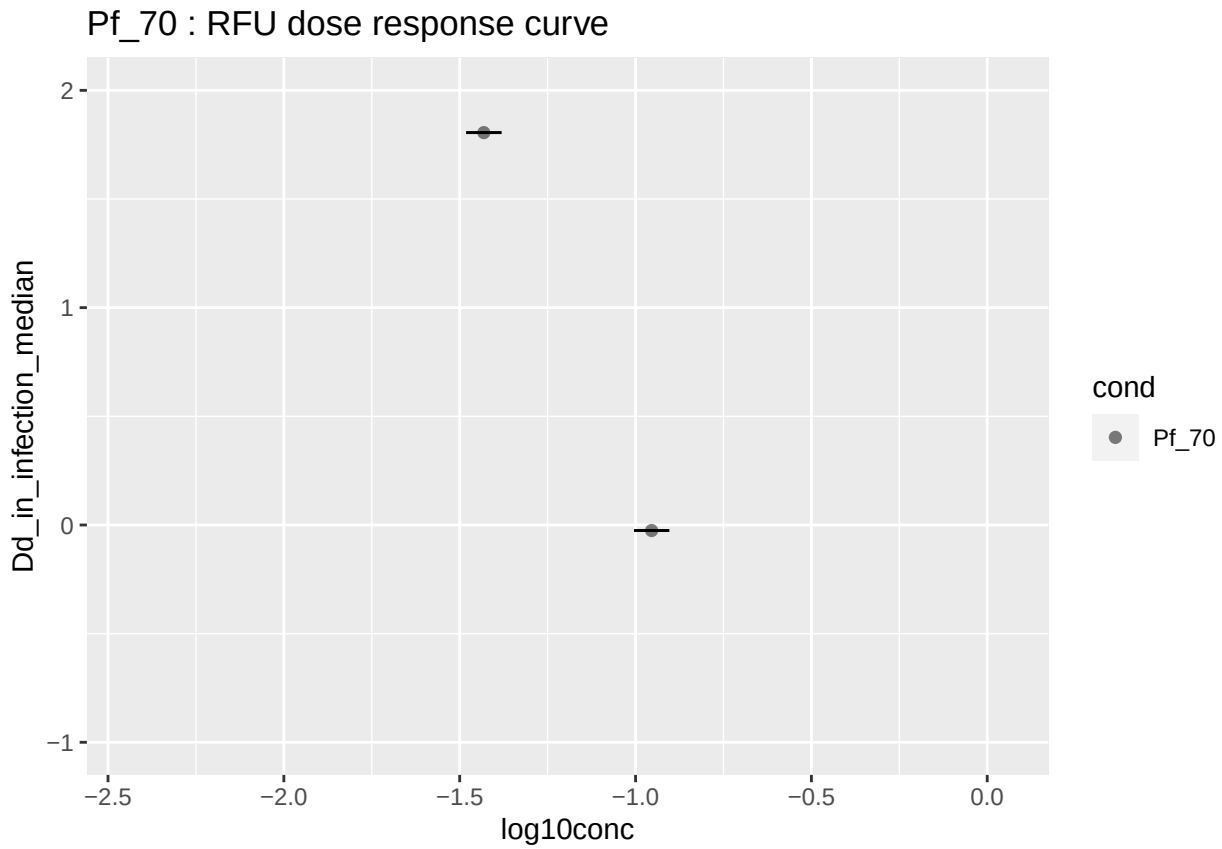

Pf_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

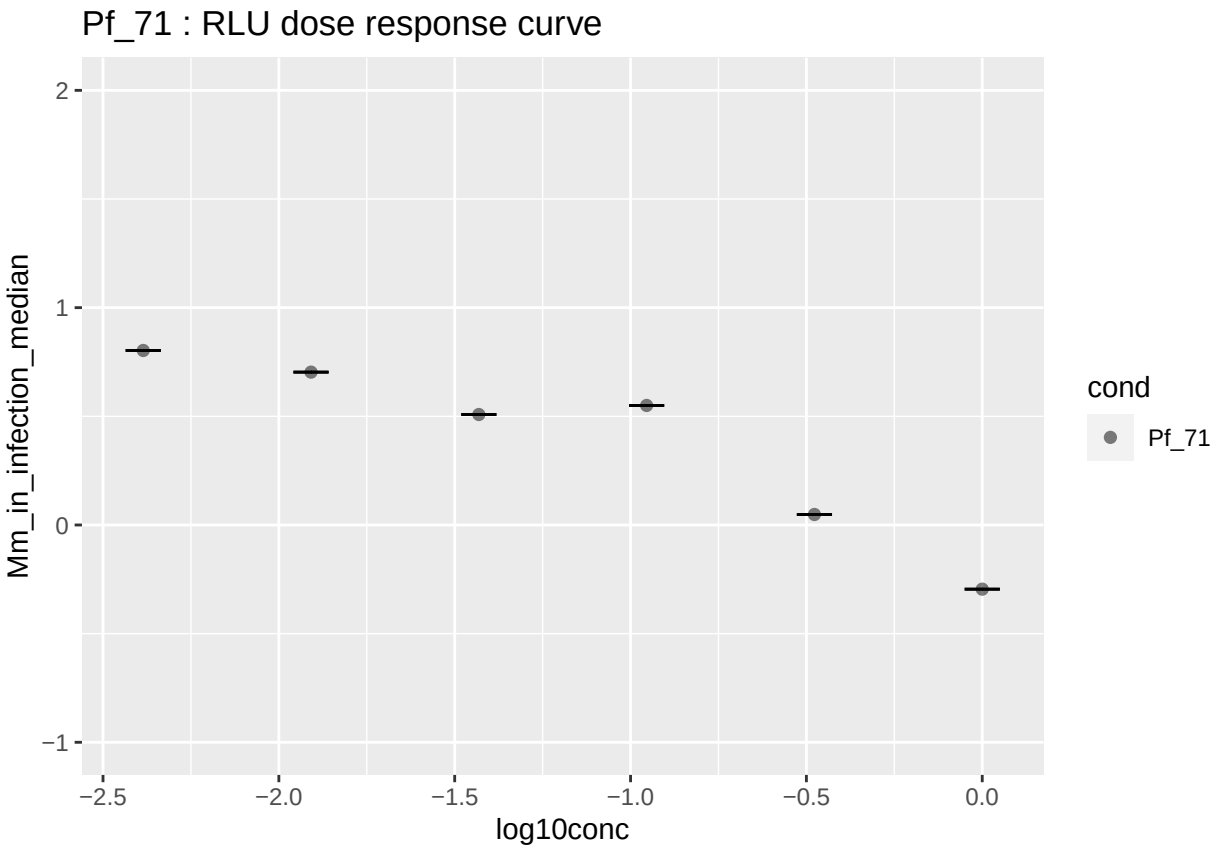

Pf_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

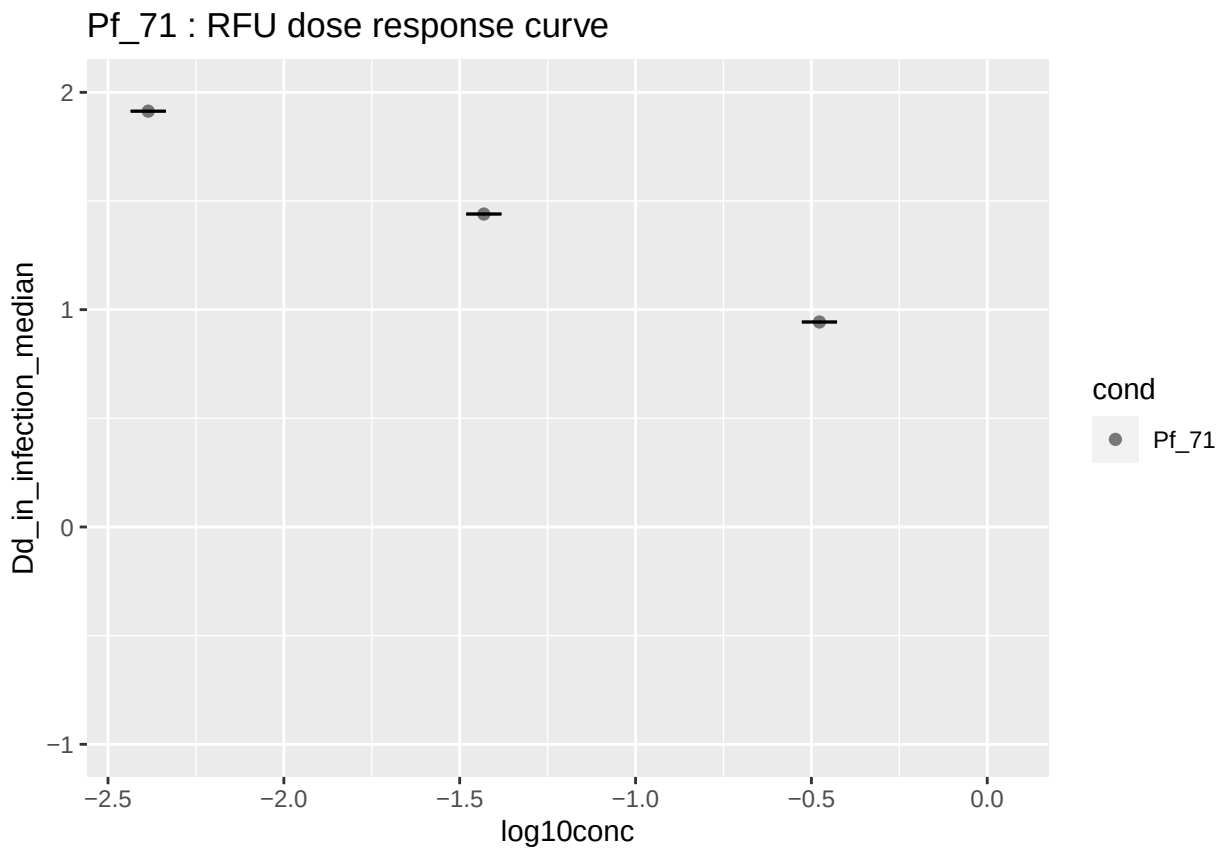

Pf_68 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

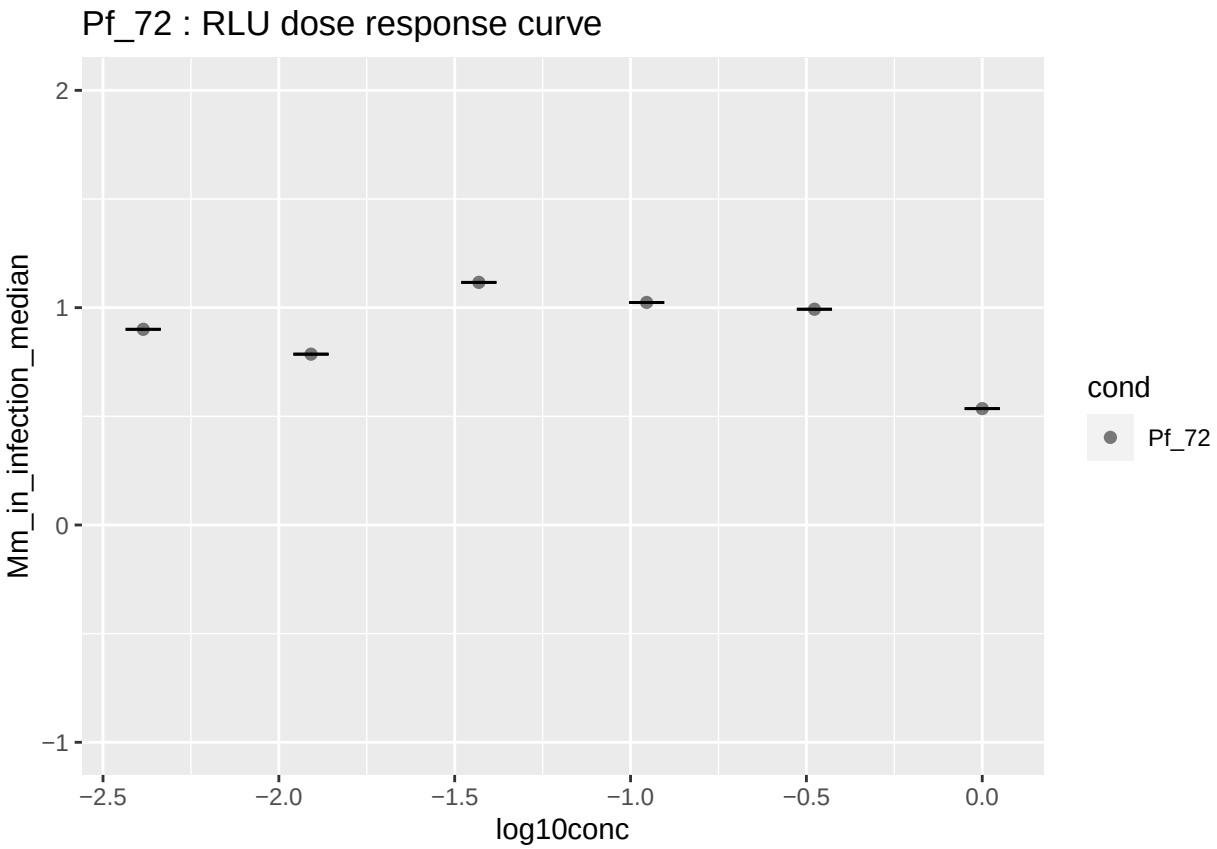

Pf_68 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

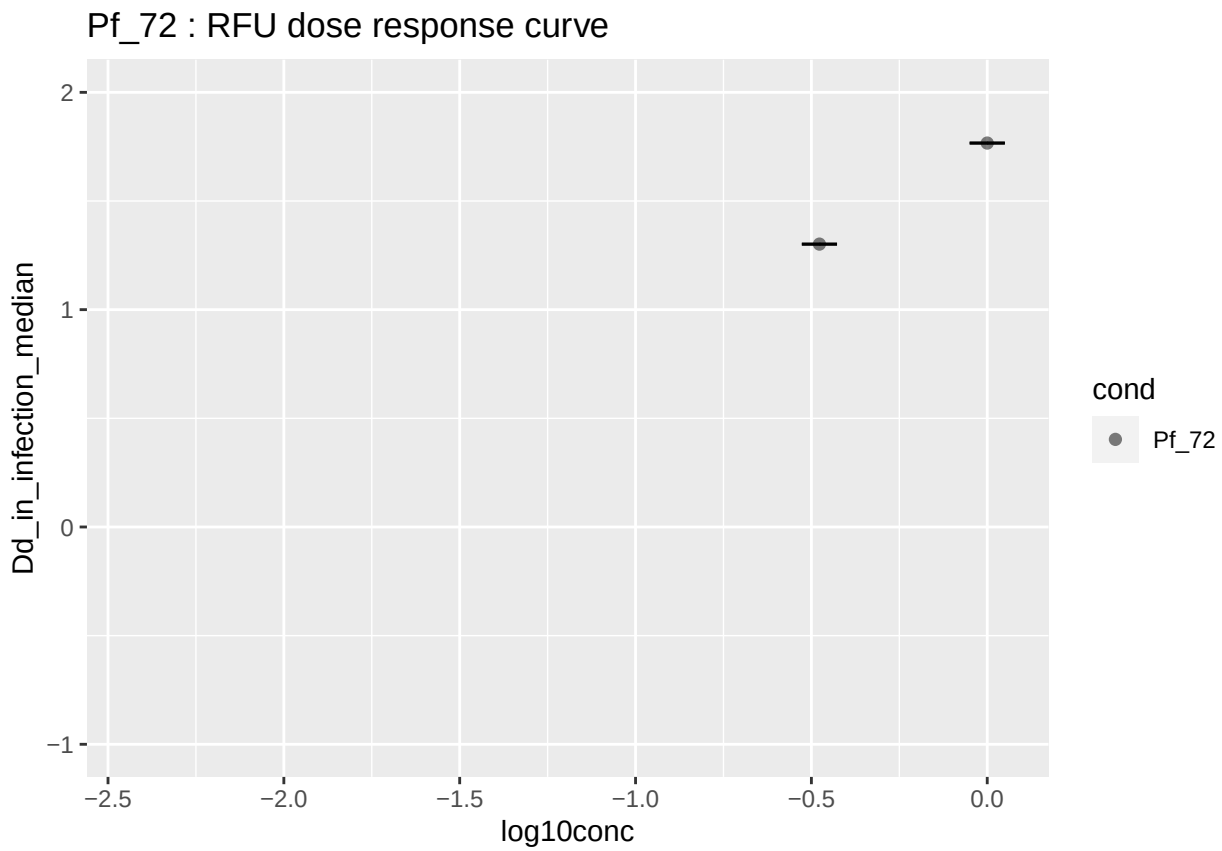

Pf_70 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

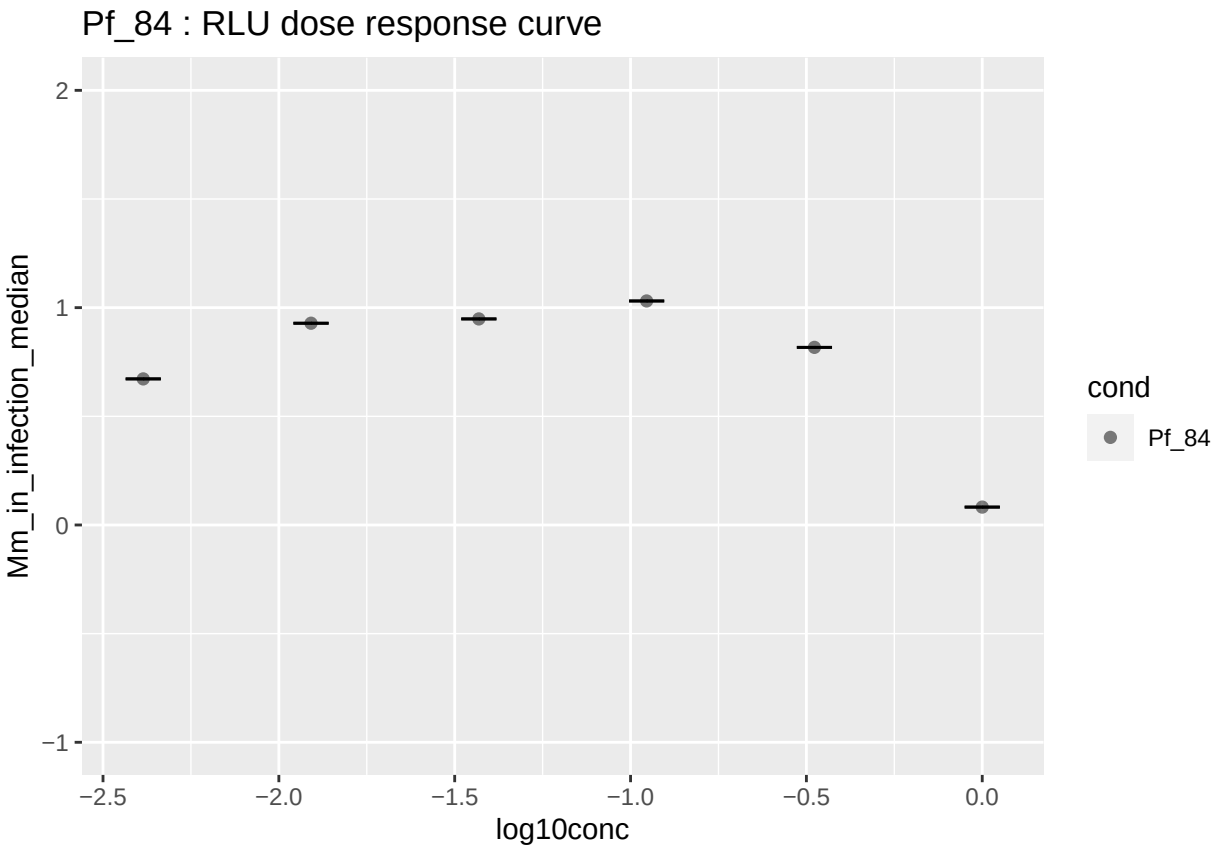

Pf_70 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

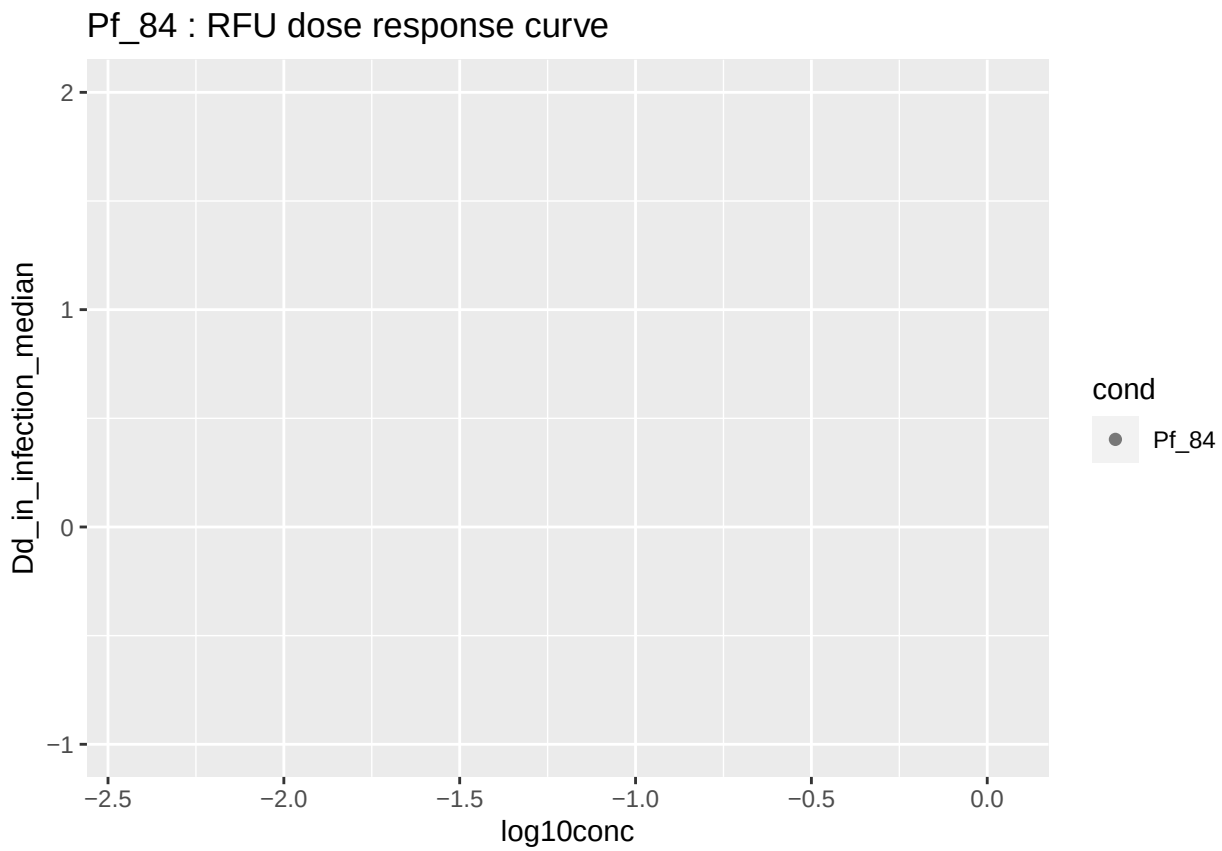

Pf_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

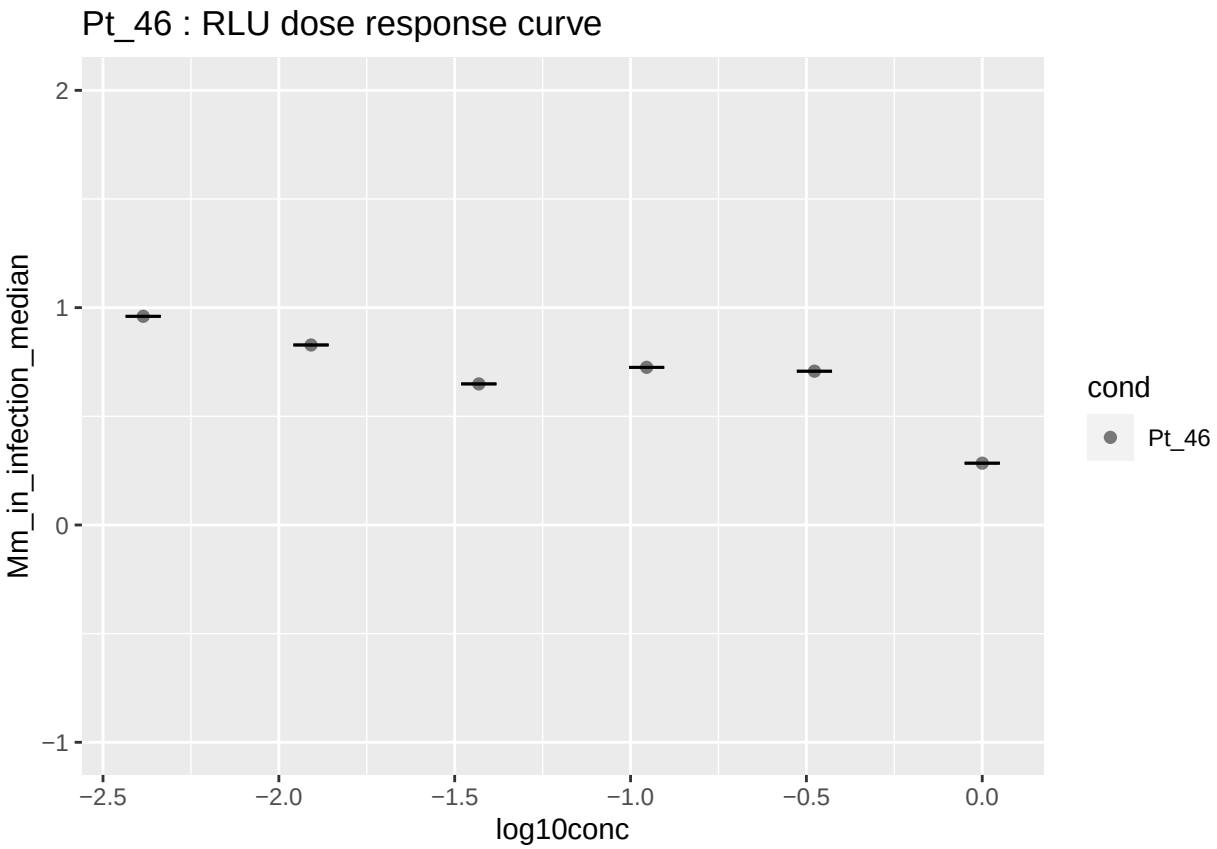

Pf_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

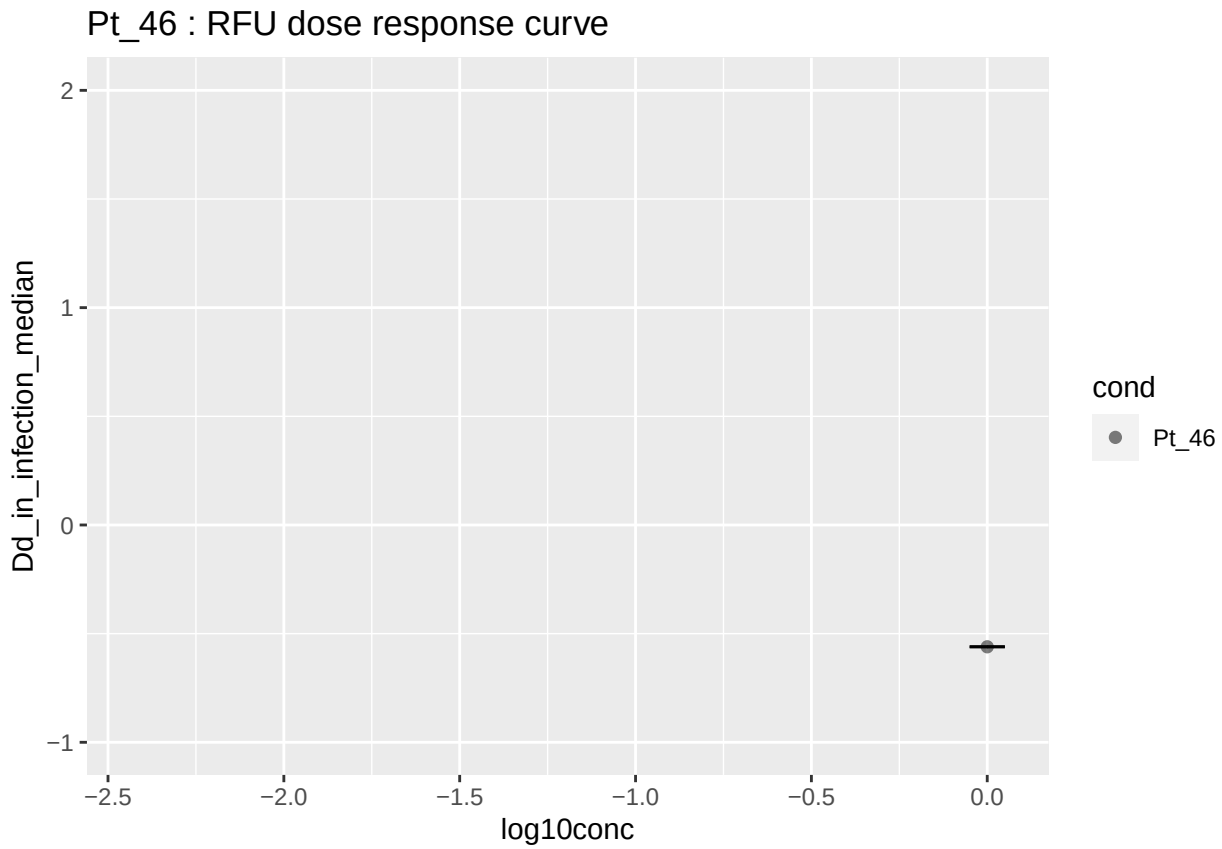

Pf_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

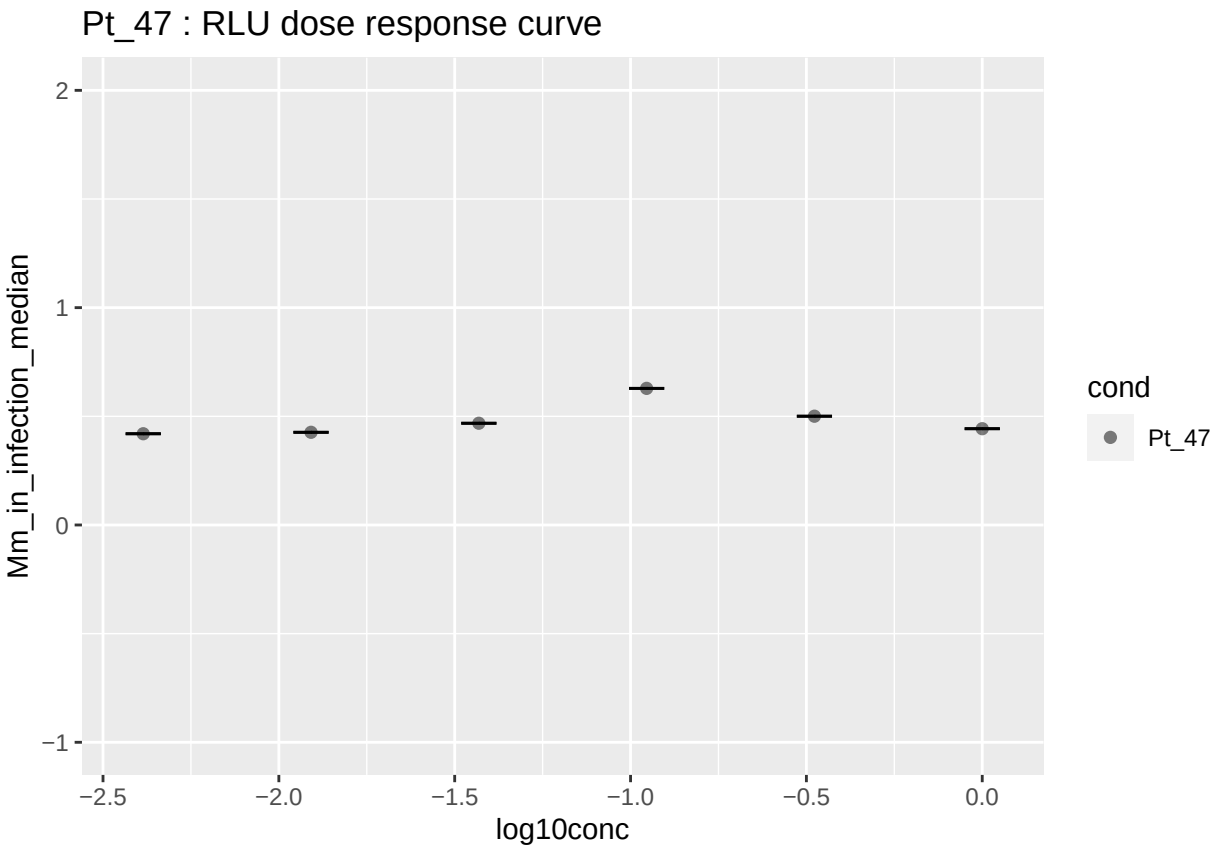

Pf_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

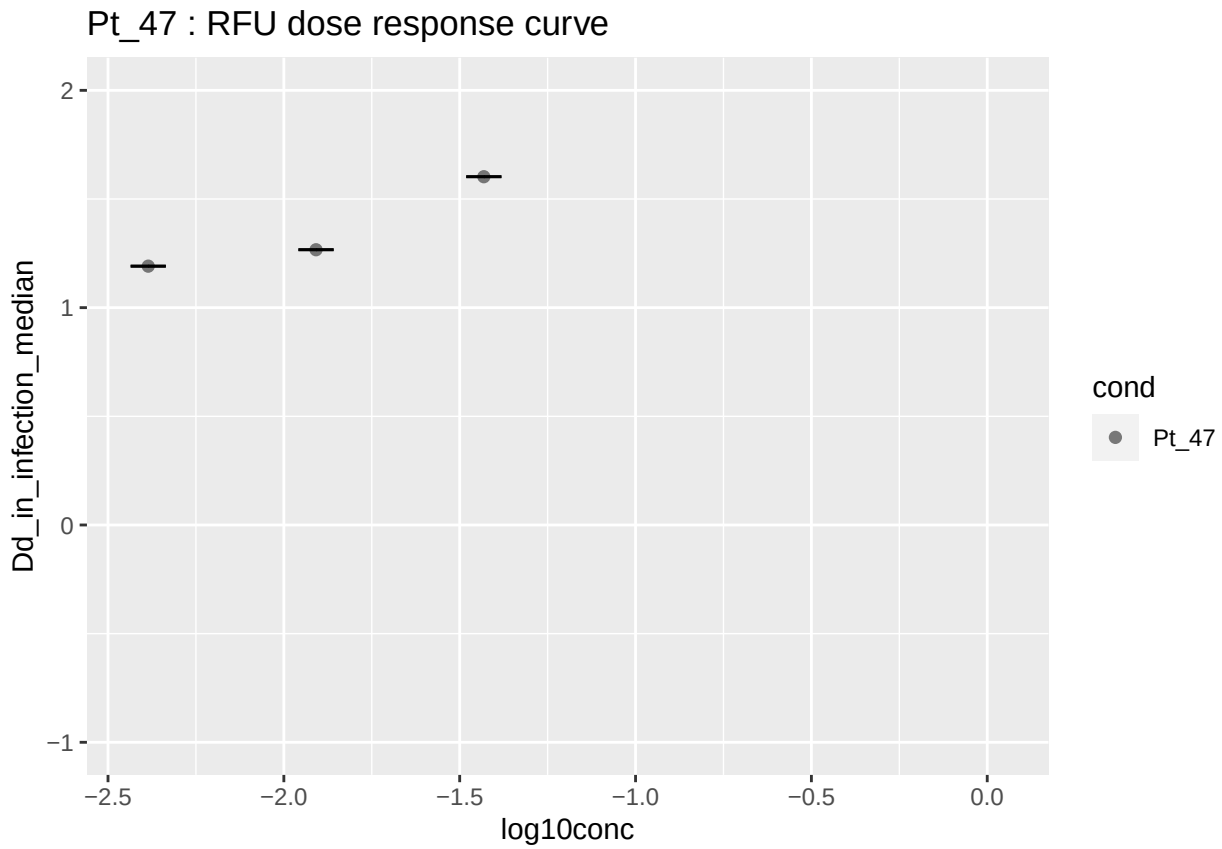

Pf_84 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84


Pf_84 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84

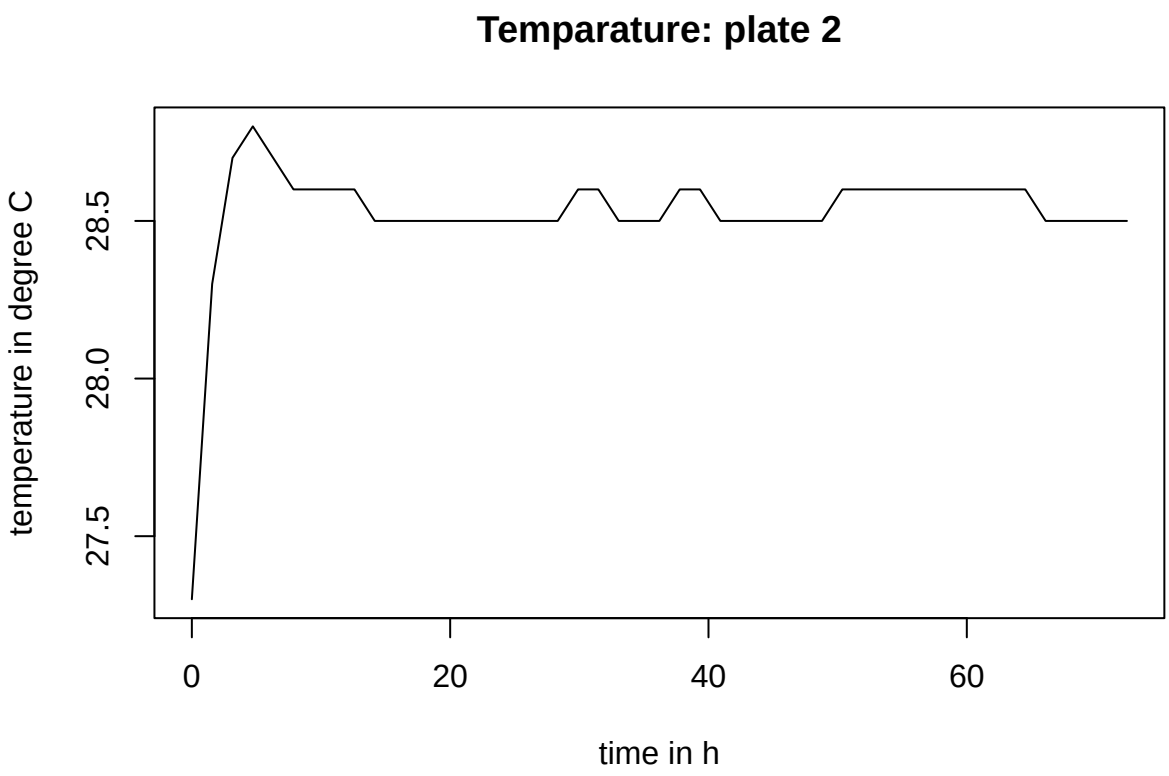

Pt_46 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46


Pt_46 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46

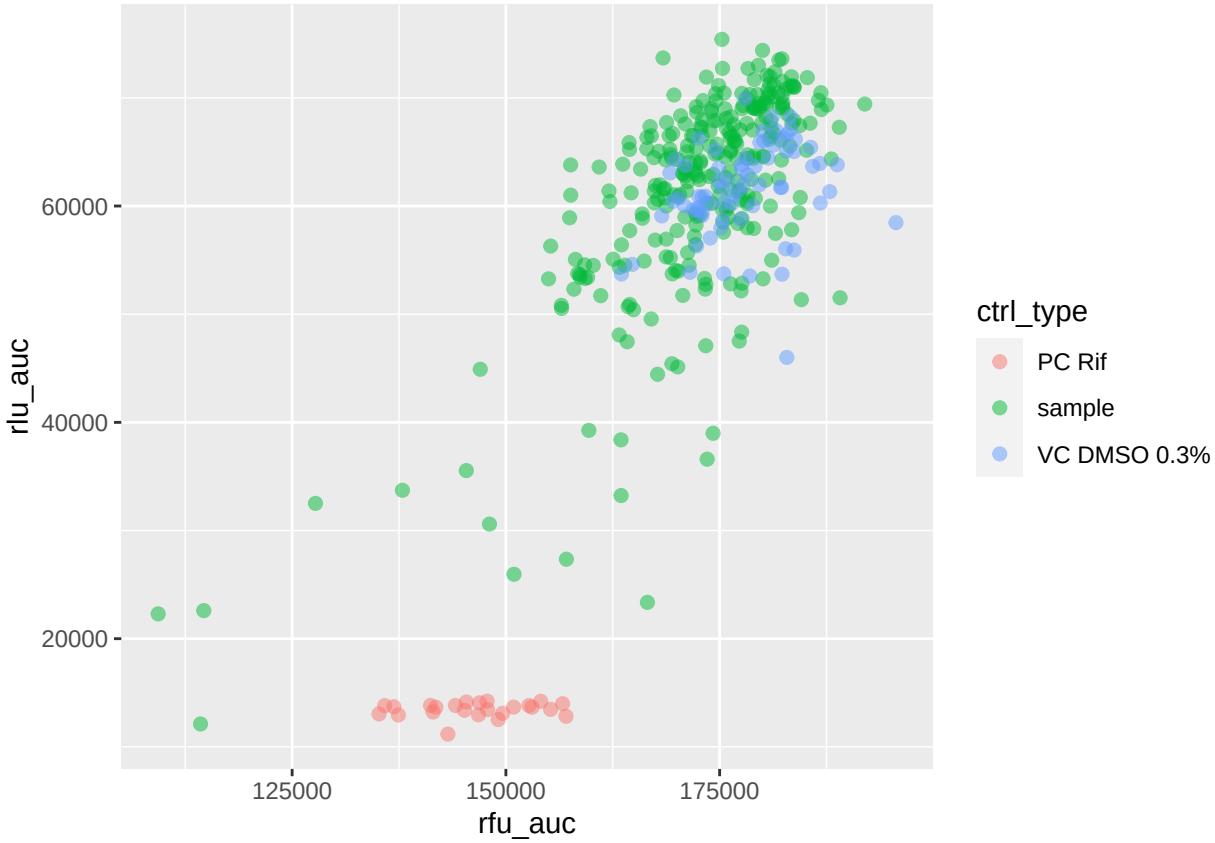

Pt_47 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_47

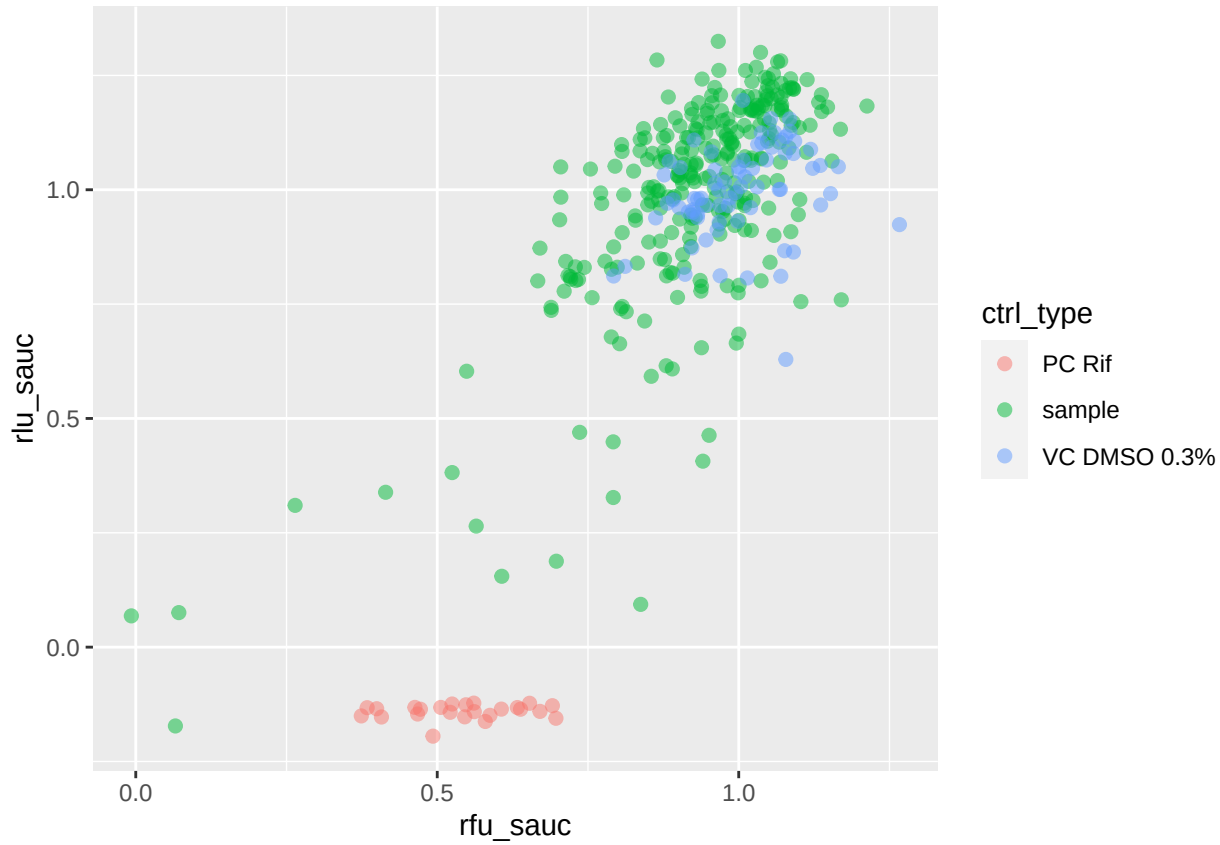


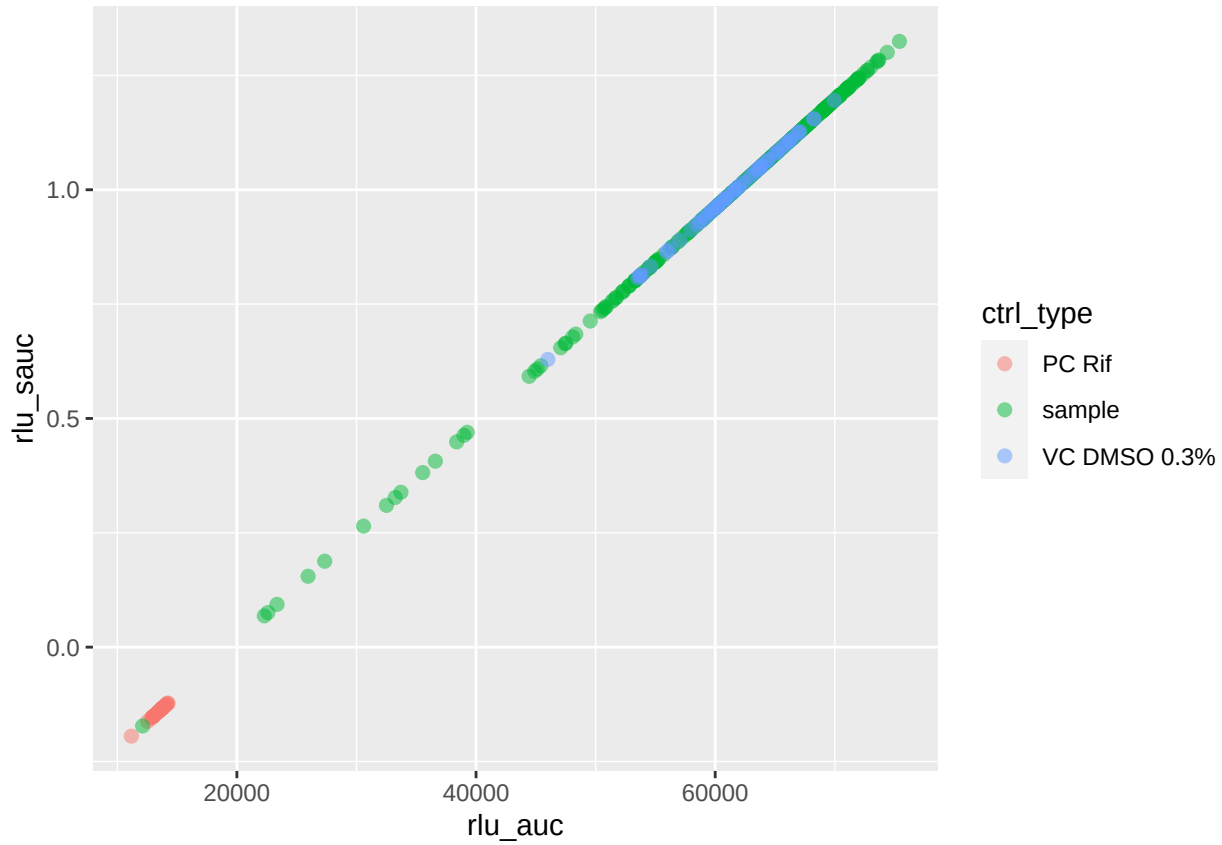

```
## [1] "analysis for plate03.xlsx"
```

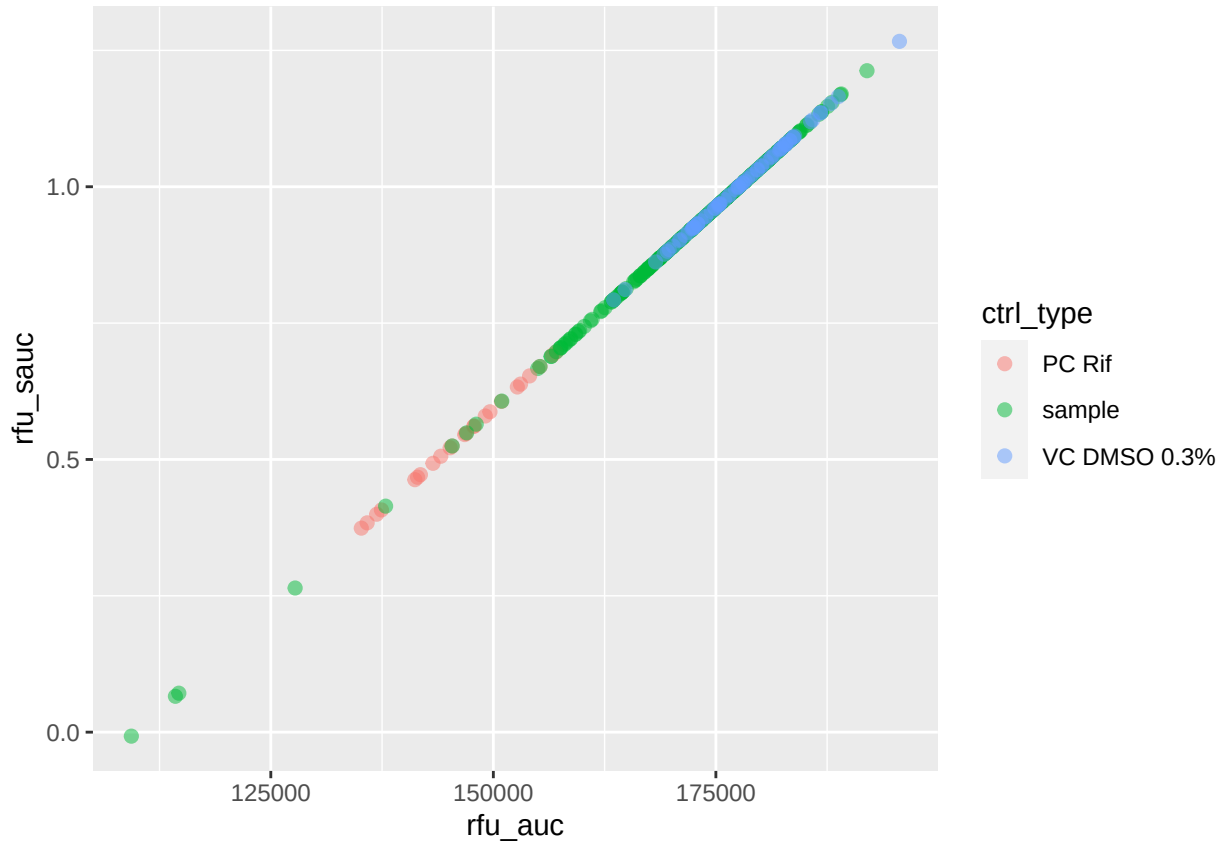


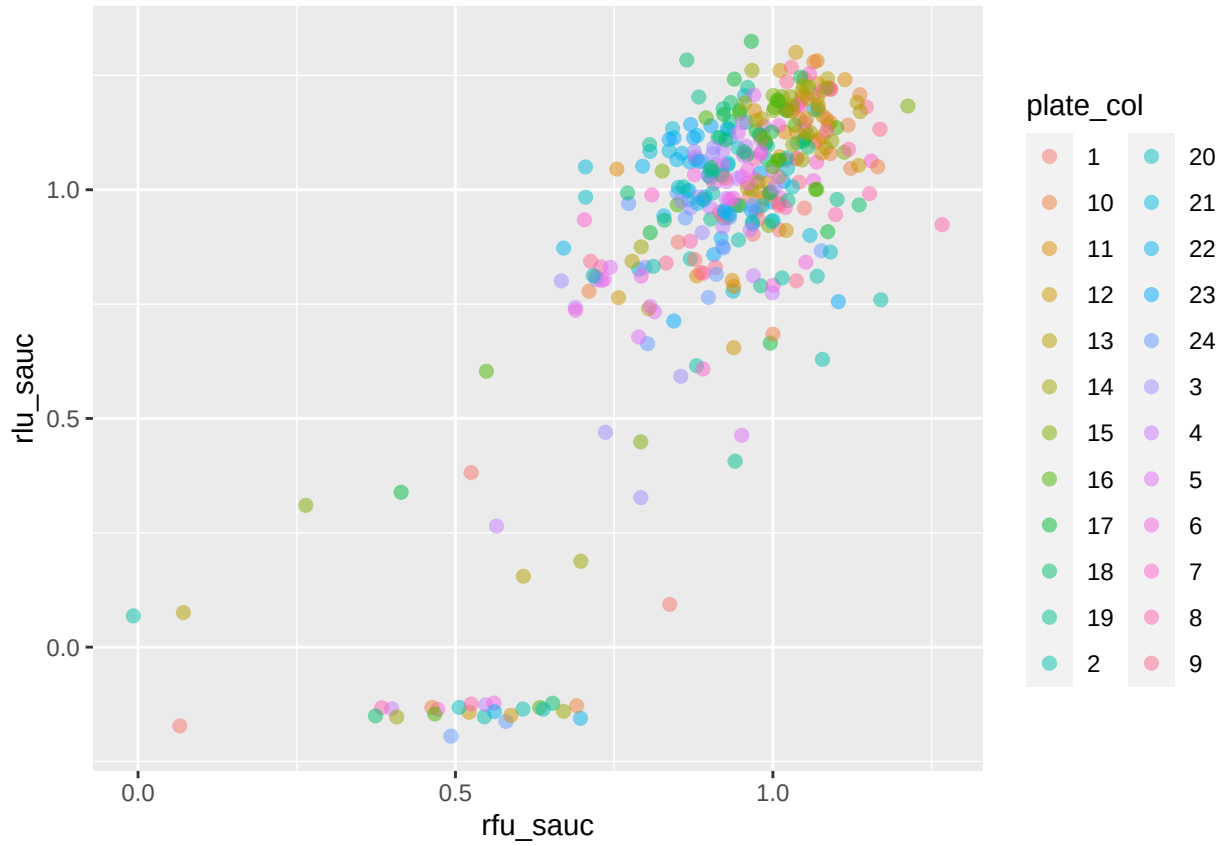

```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate03.xlsx, biorep 1 : "
## [1] 0.73
```

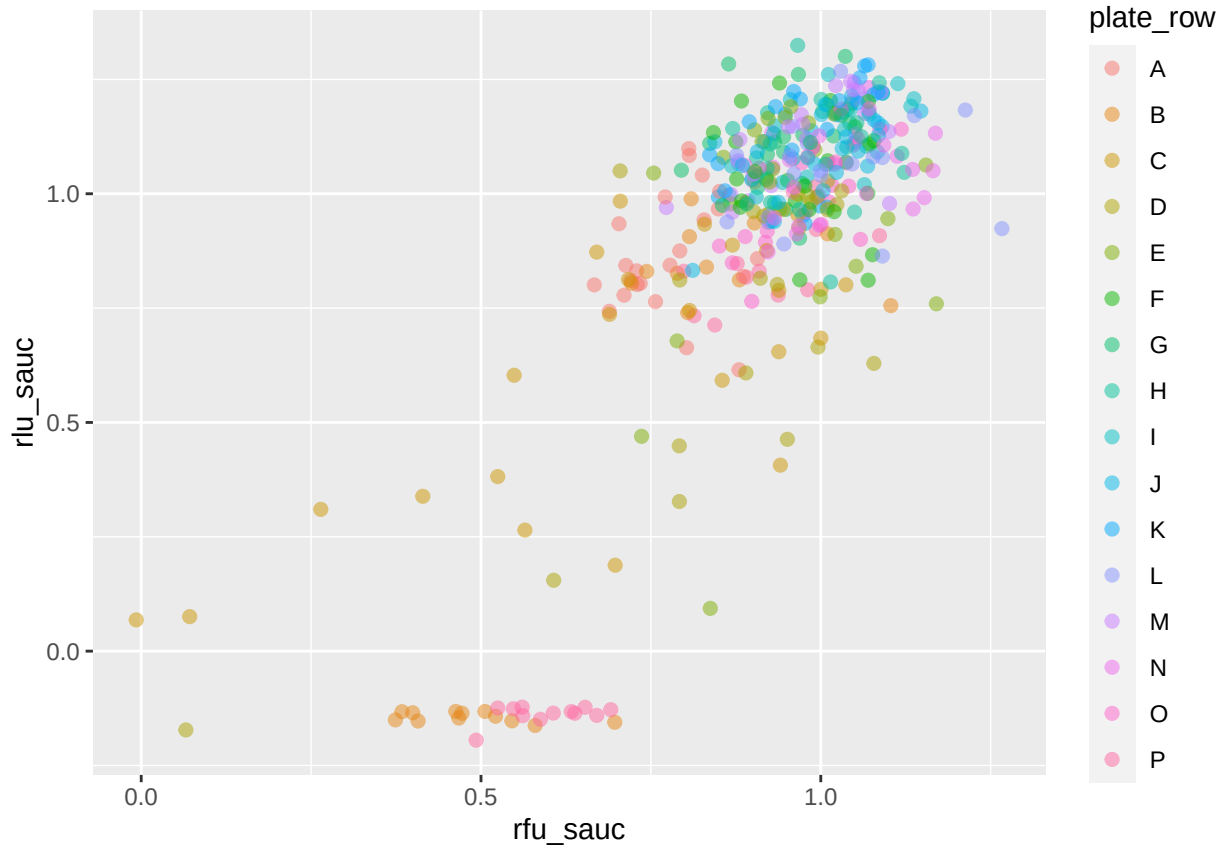

60000
40000
20000
rlu_auc
125000
150000
175000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.0
0.5
0.0
rlu_sauc
0.0
0.5
1.0
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

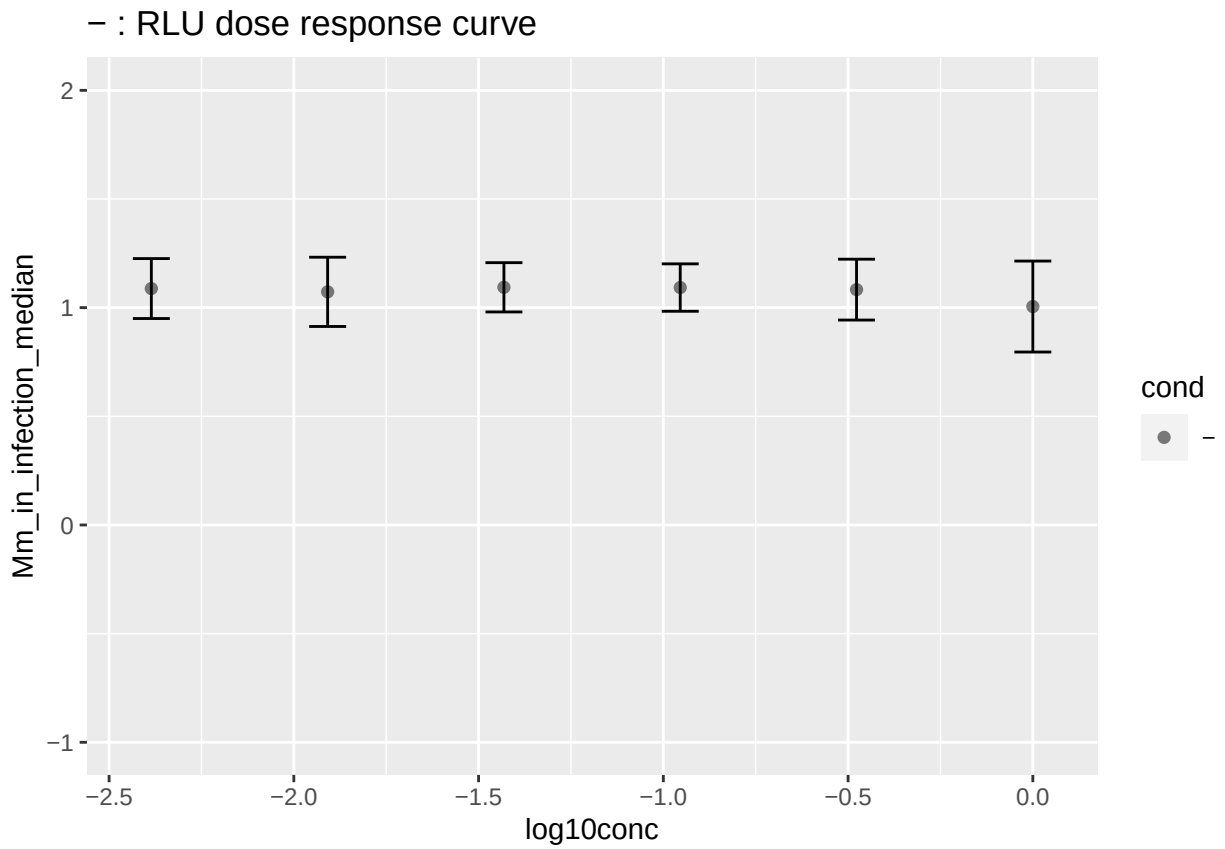

1.0
0.5
0.0
rlu_sauc
20000
40000
60000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.0
0.5
0.0
rfu_sauc
125000
150000
175000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

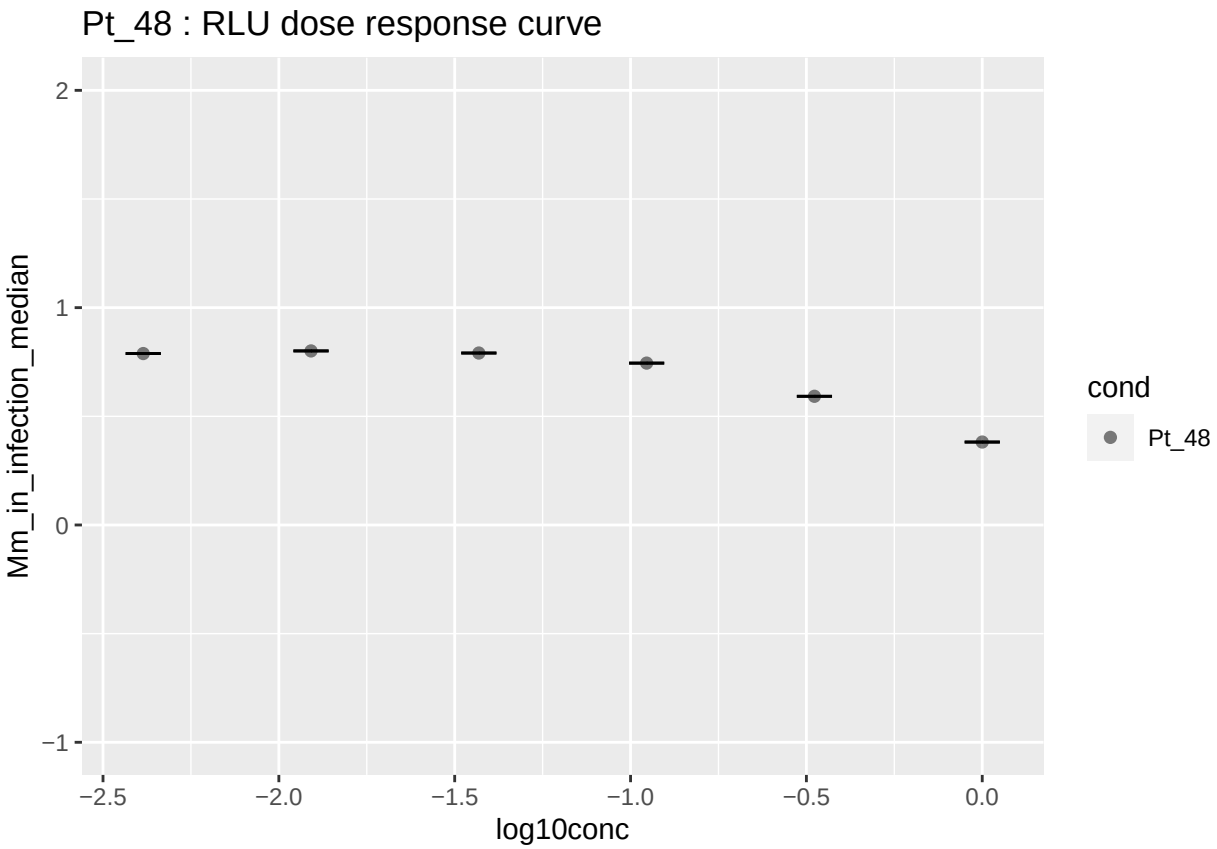

rlu_sauc
1.0
0.5
0.0
0.0
0.5
1.0
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

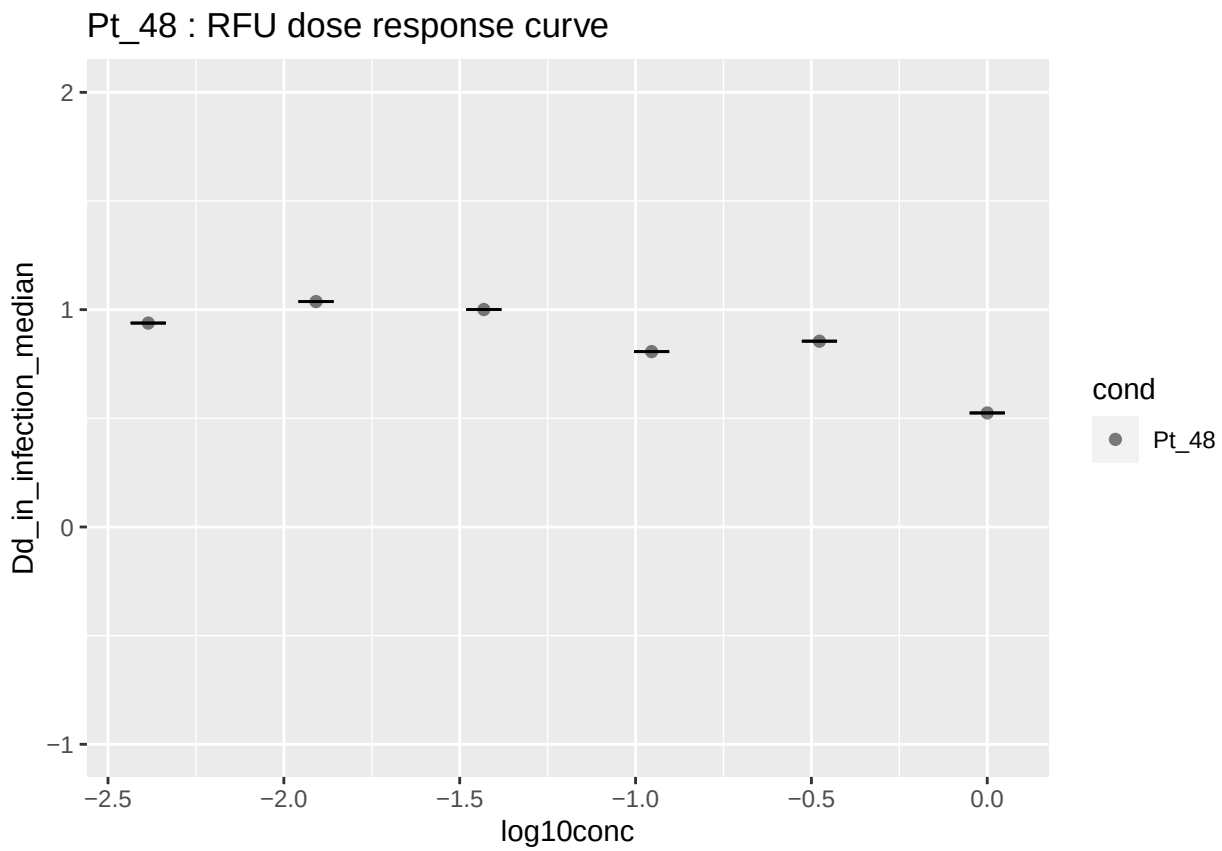


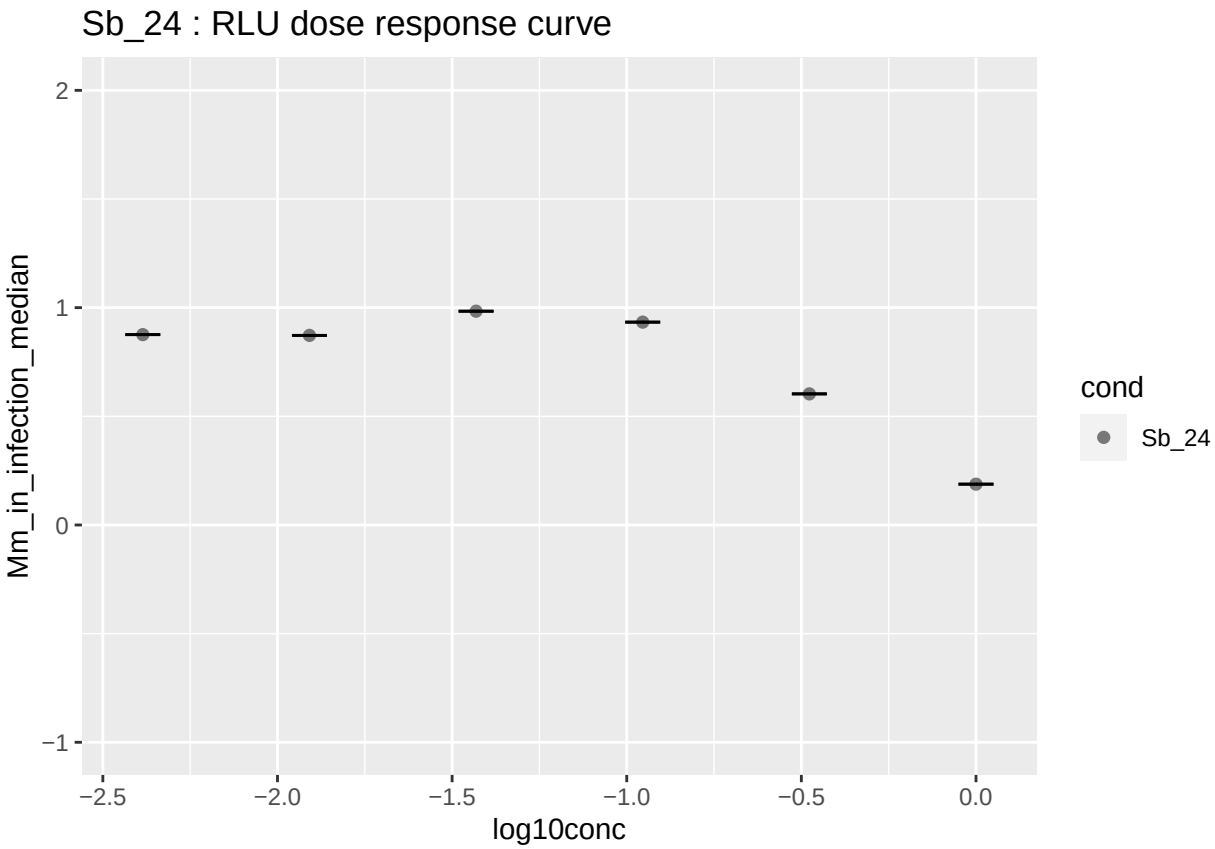

```
## [1] "Dose response curves over all bioreps within this plate"
```

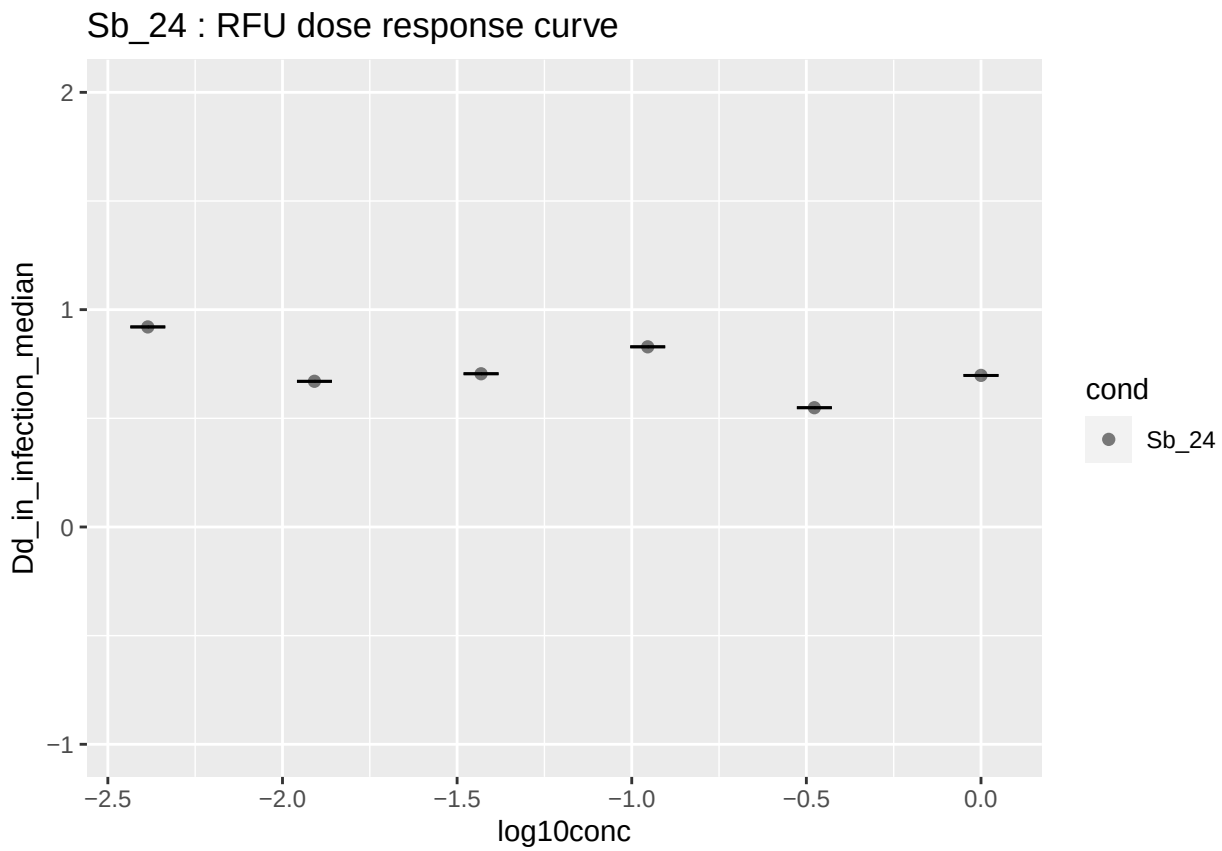

− : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

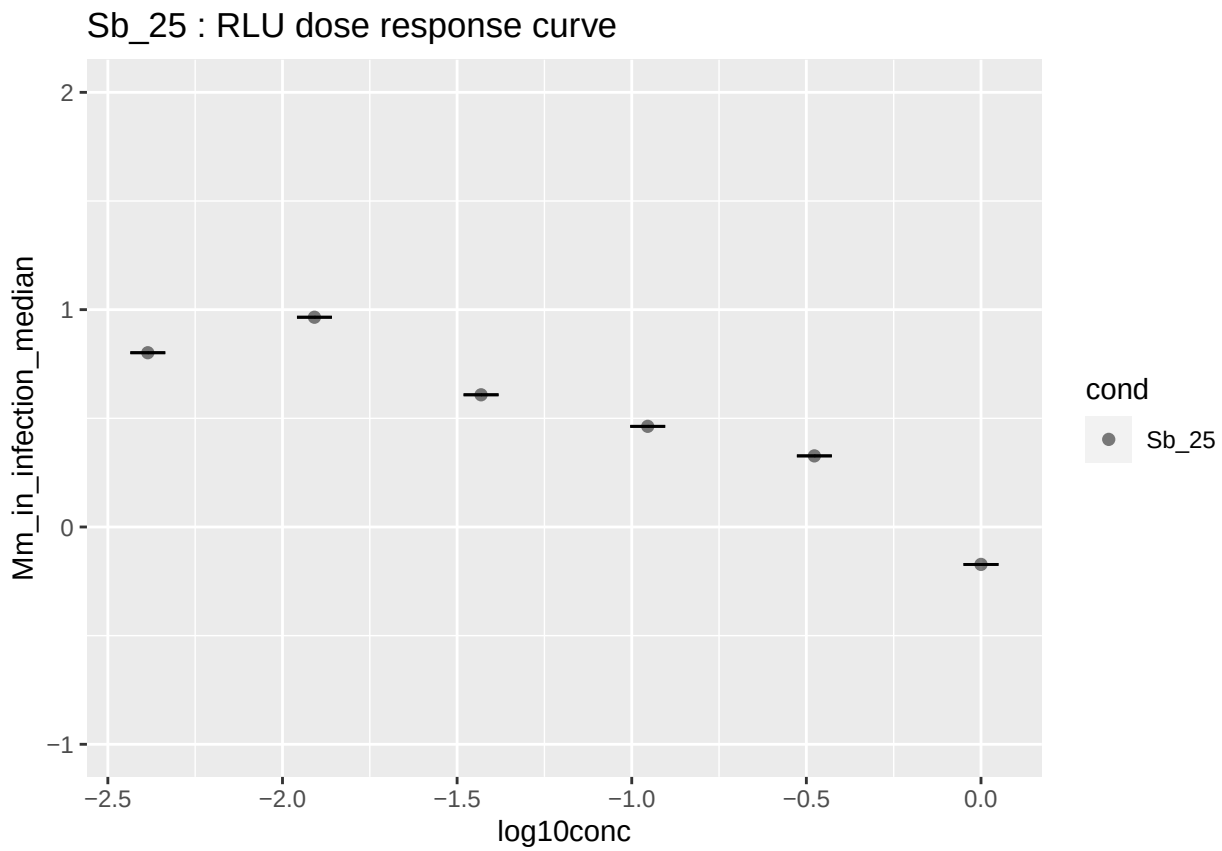
− : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

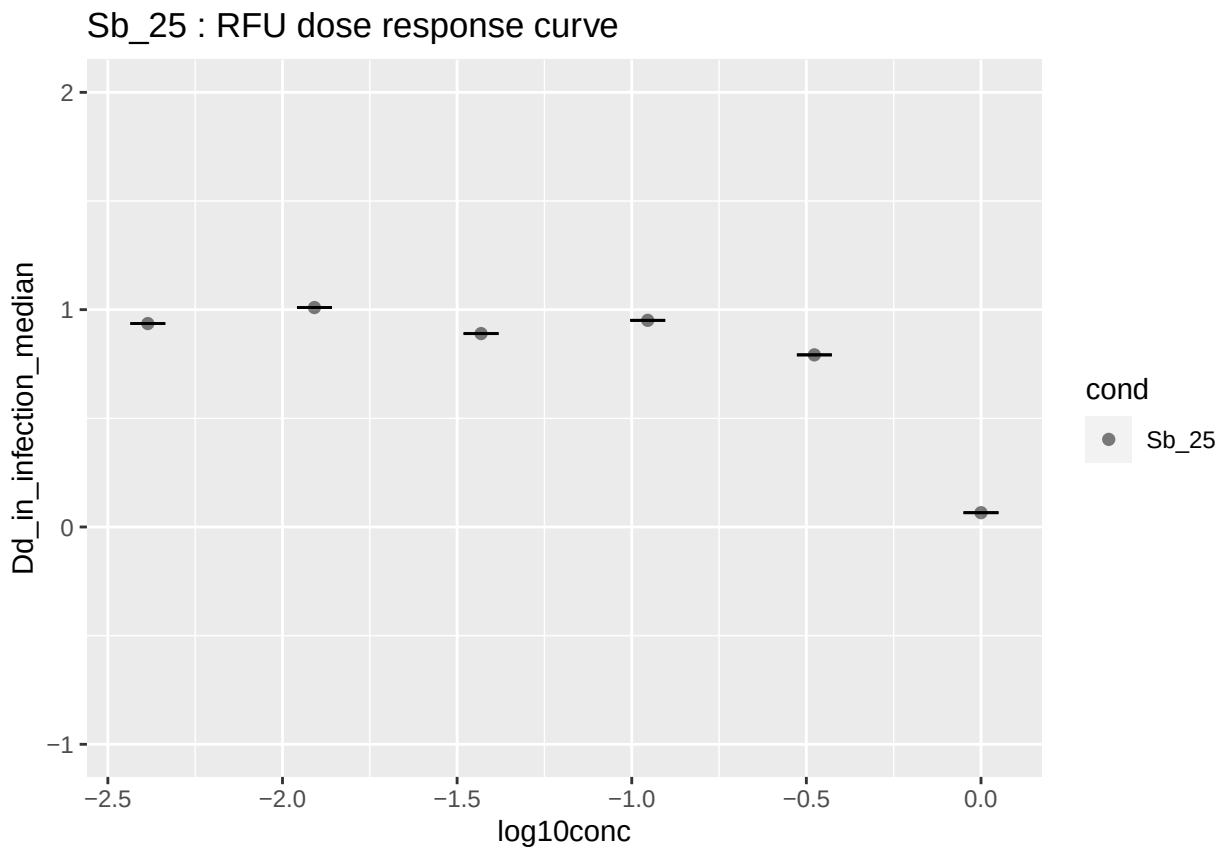

Pt_48 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

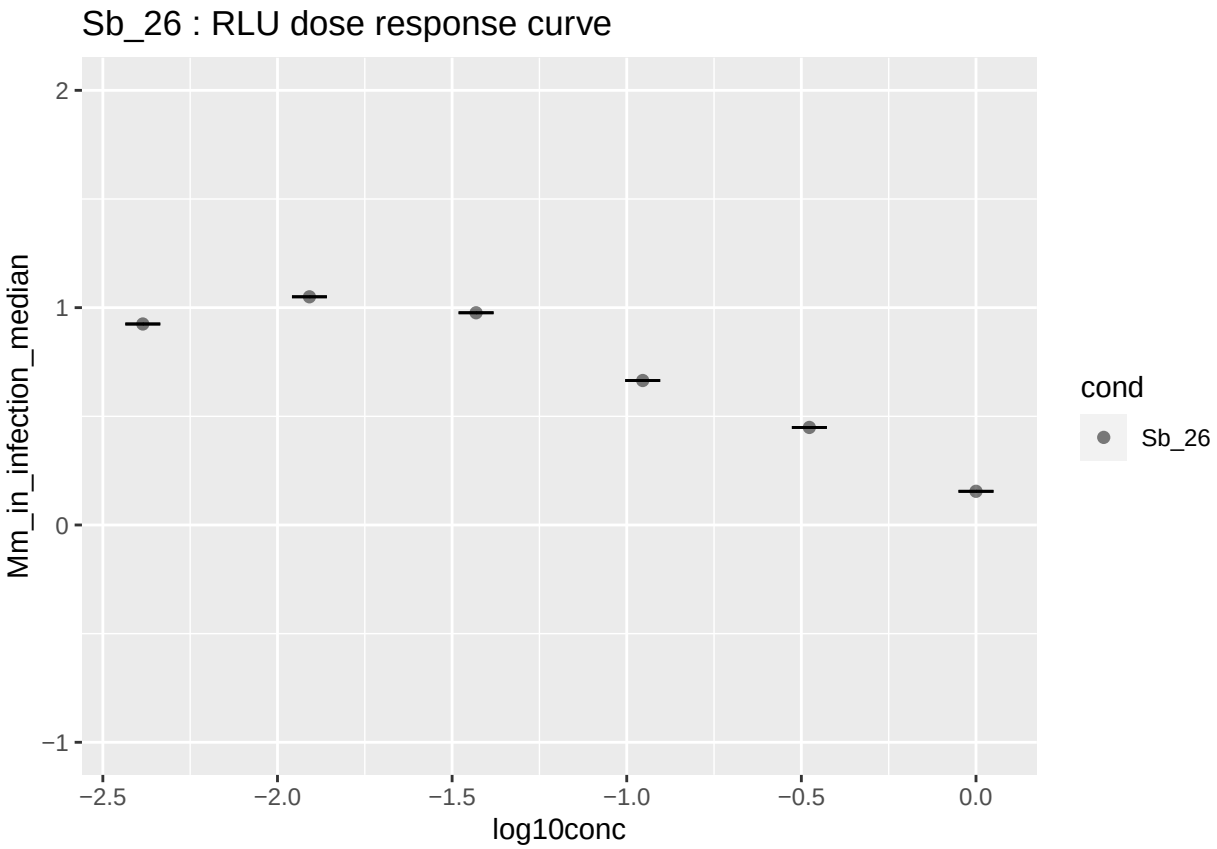

Pt_48 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

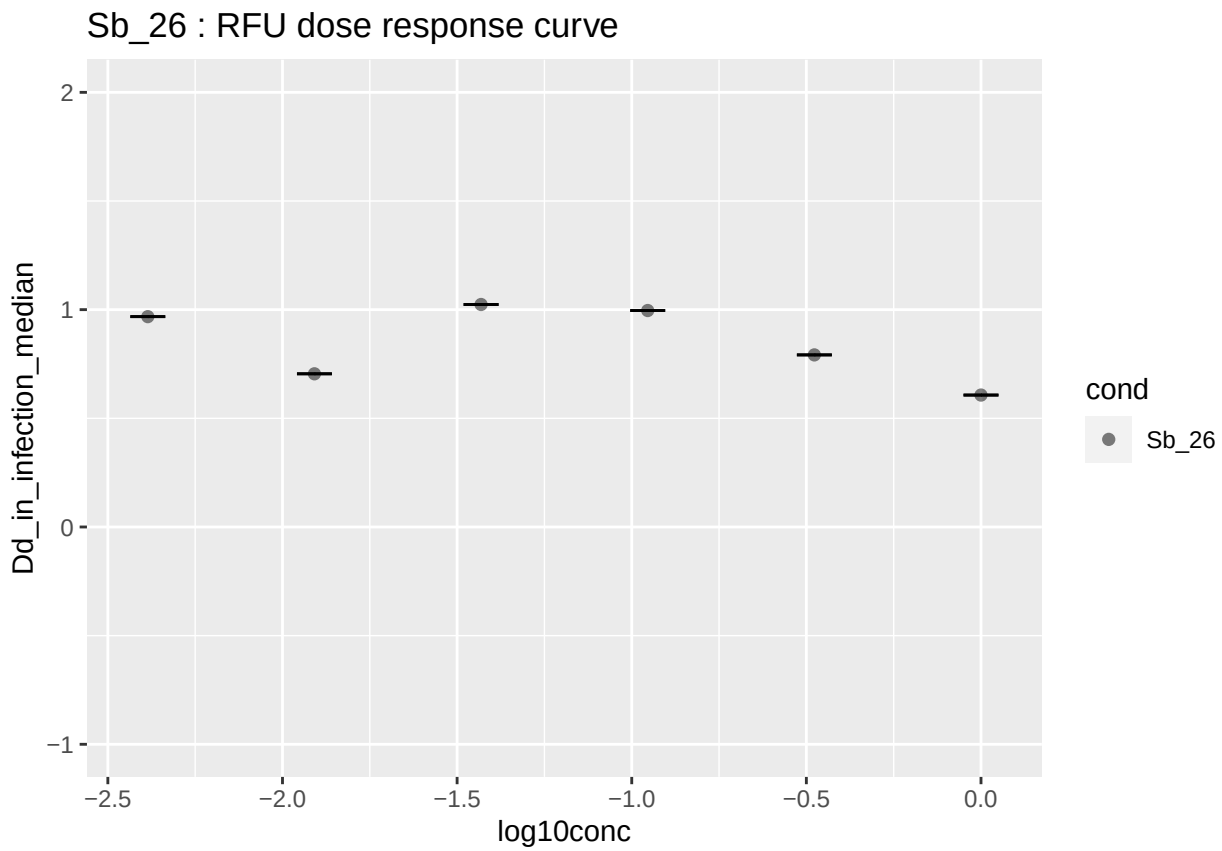

Sb_24 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

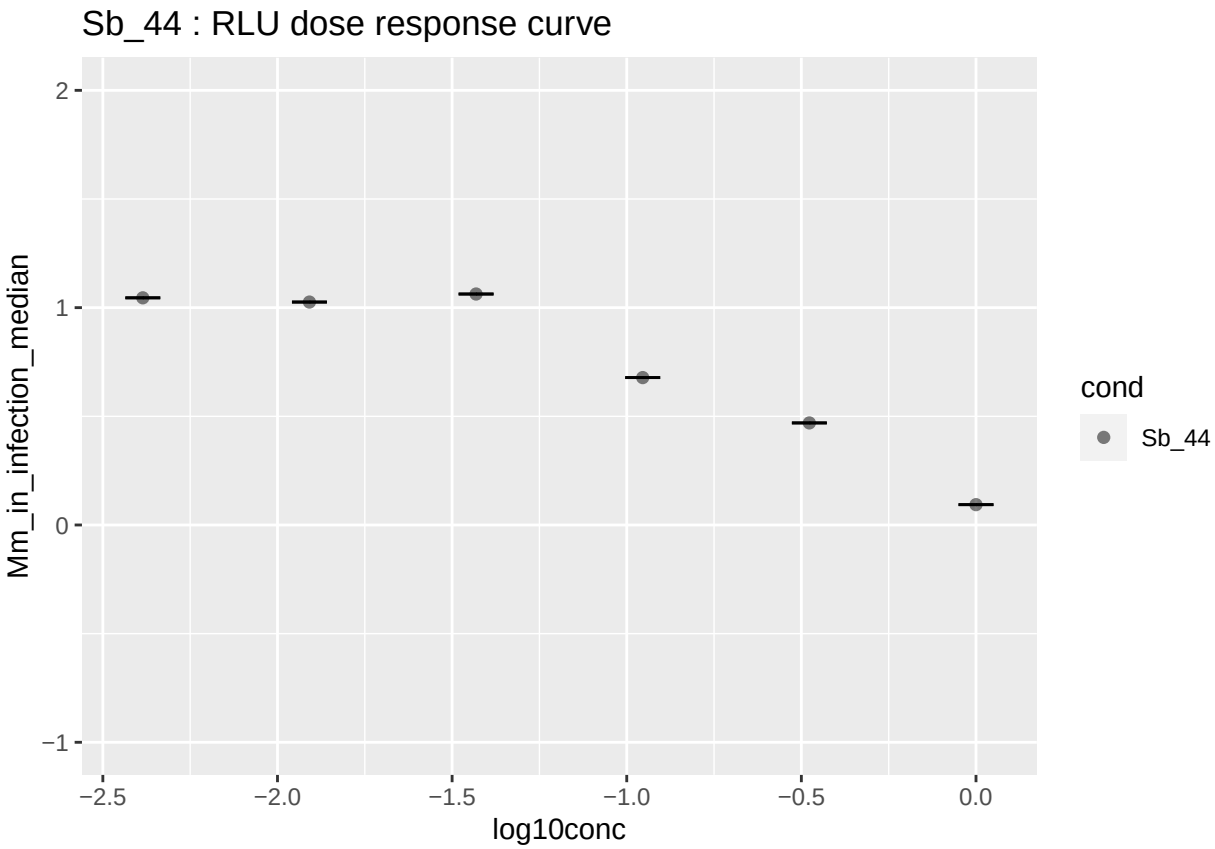

Sb_24 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

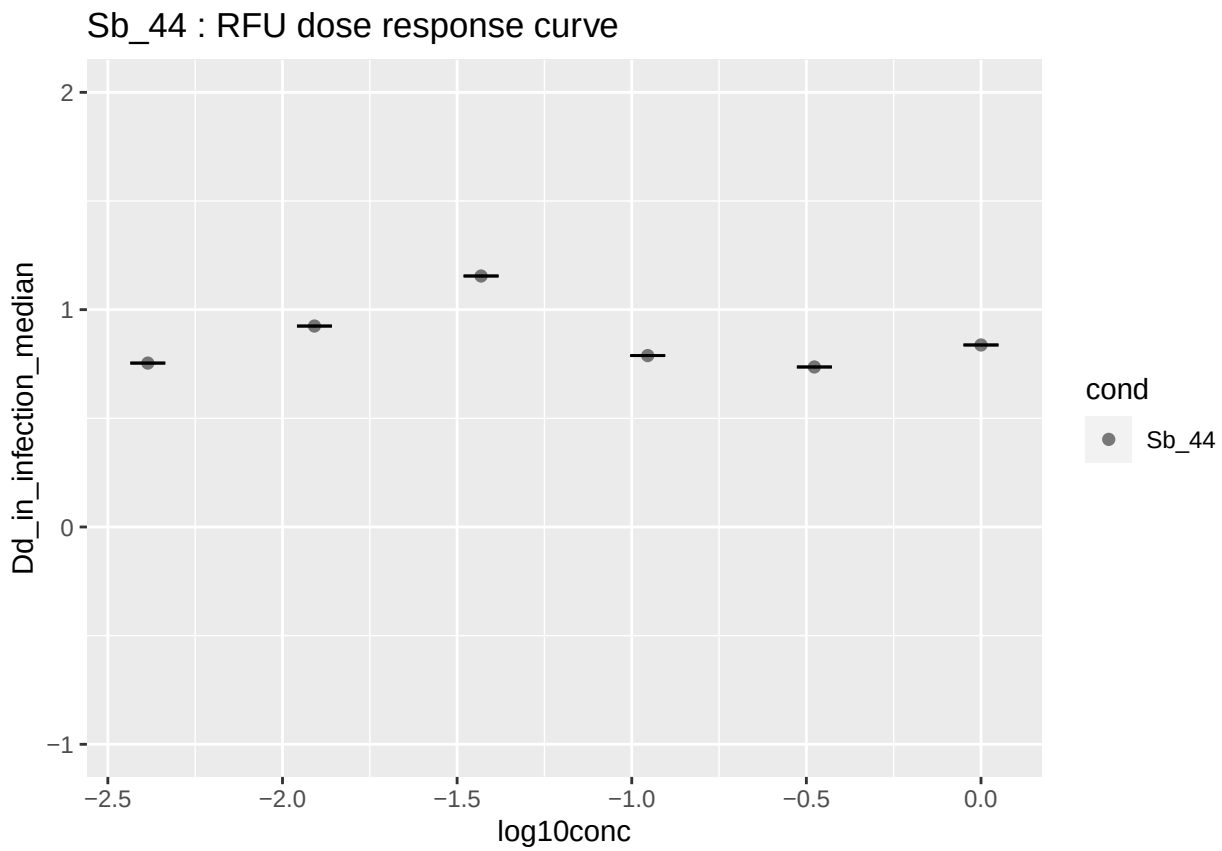

Sb_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

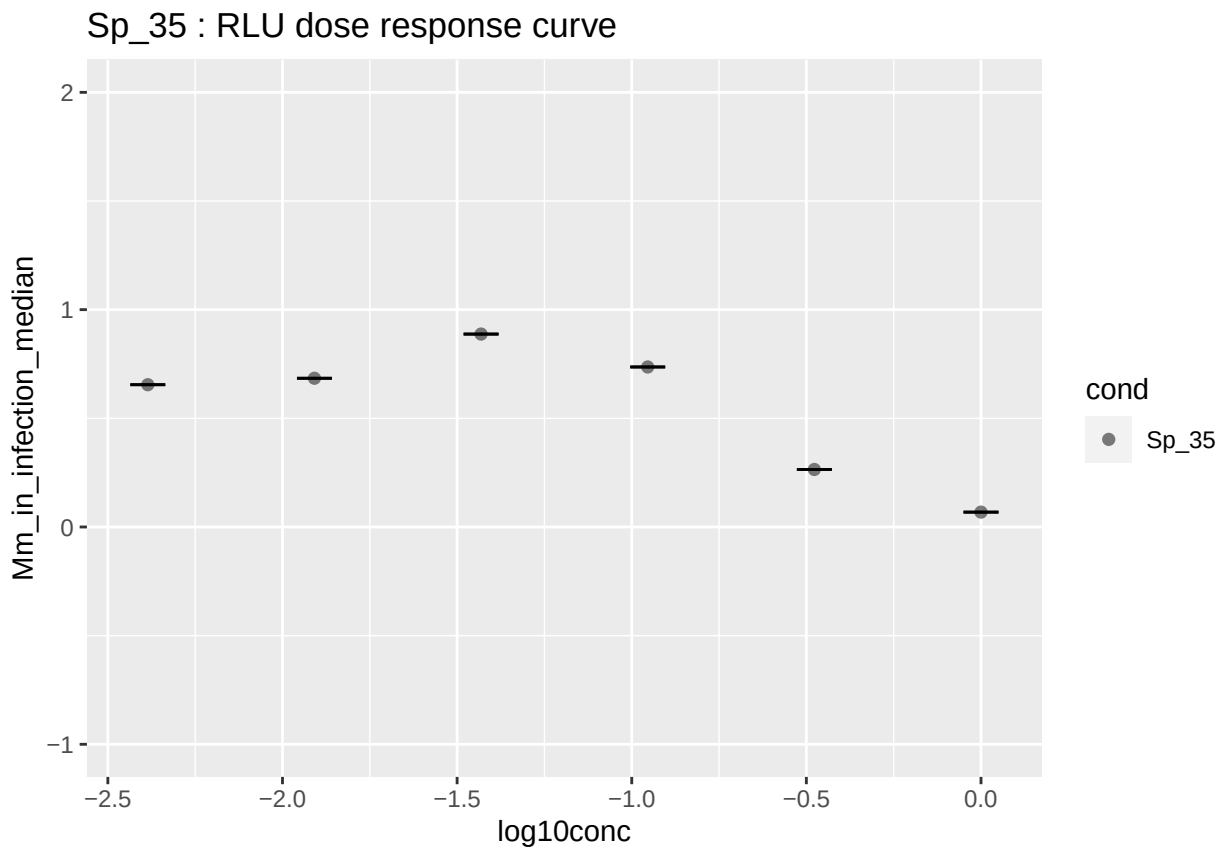

Sb_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

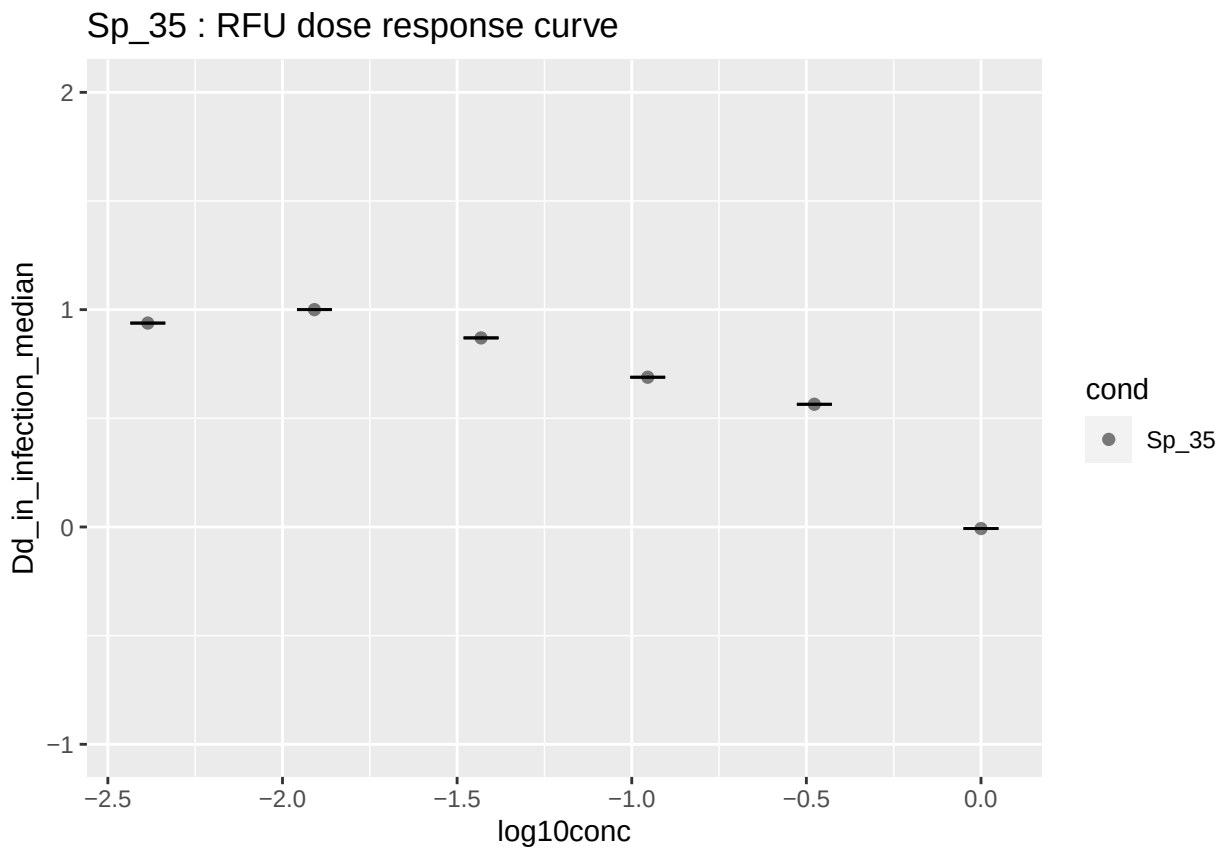

Sb_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

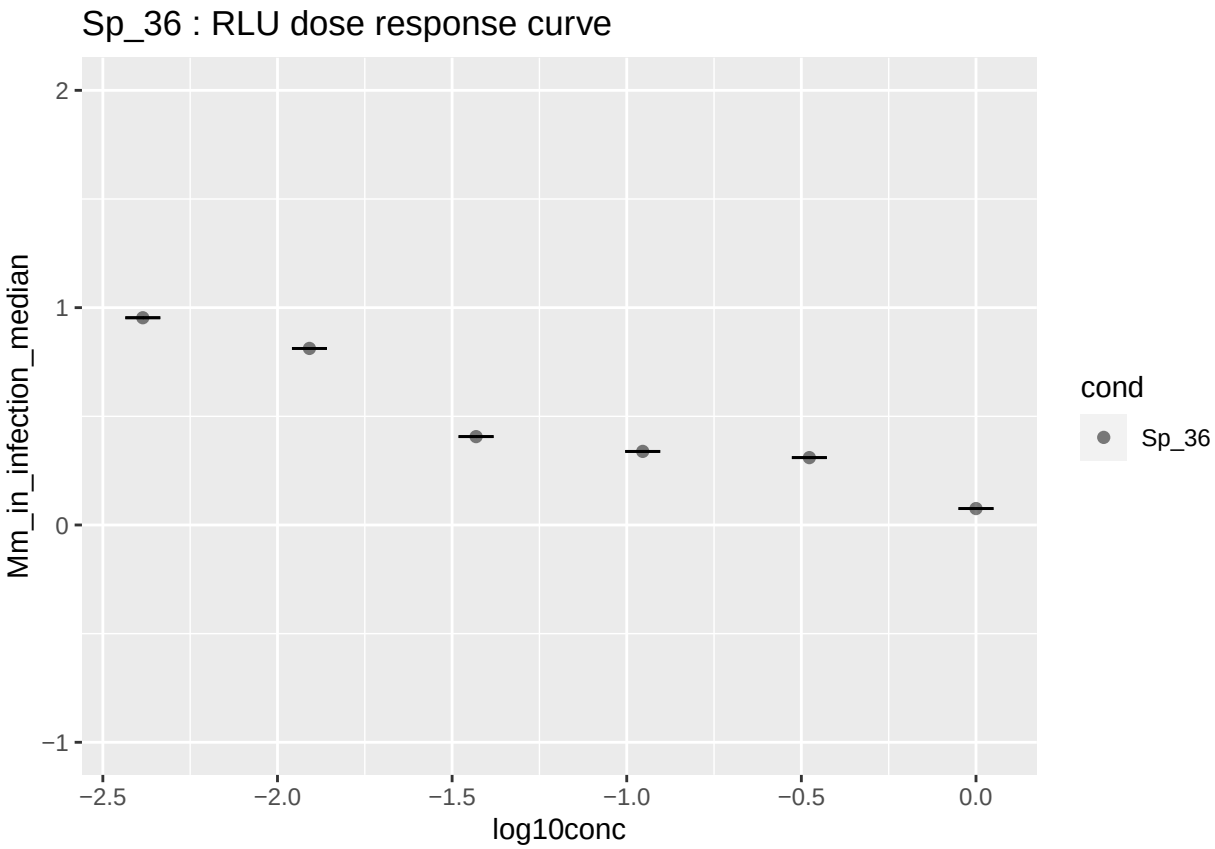

Sb_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

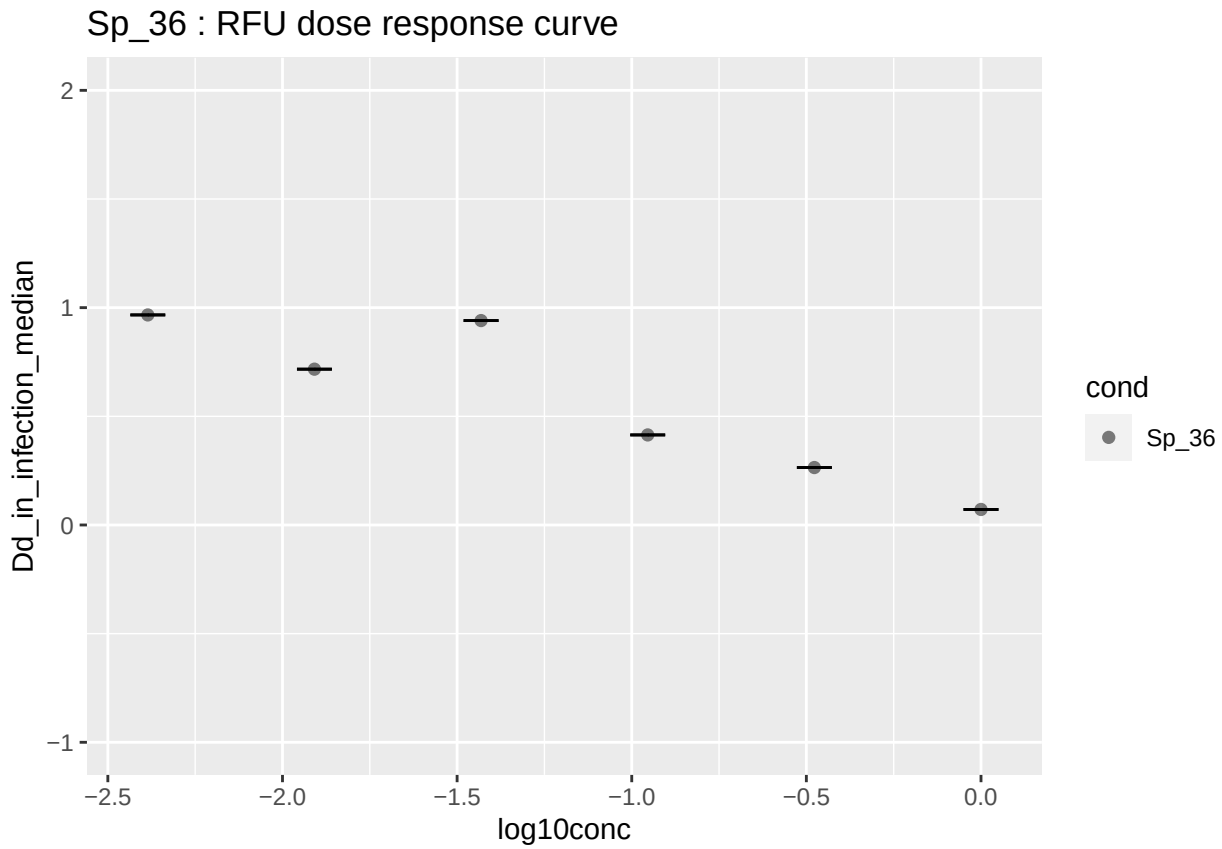

Sb_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

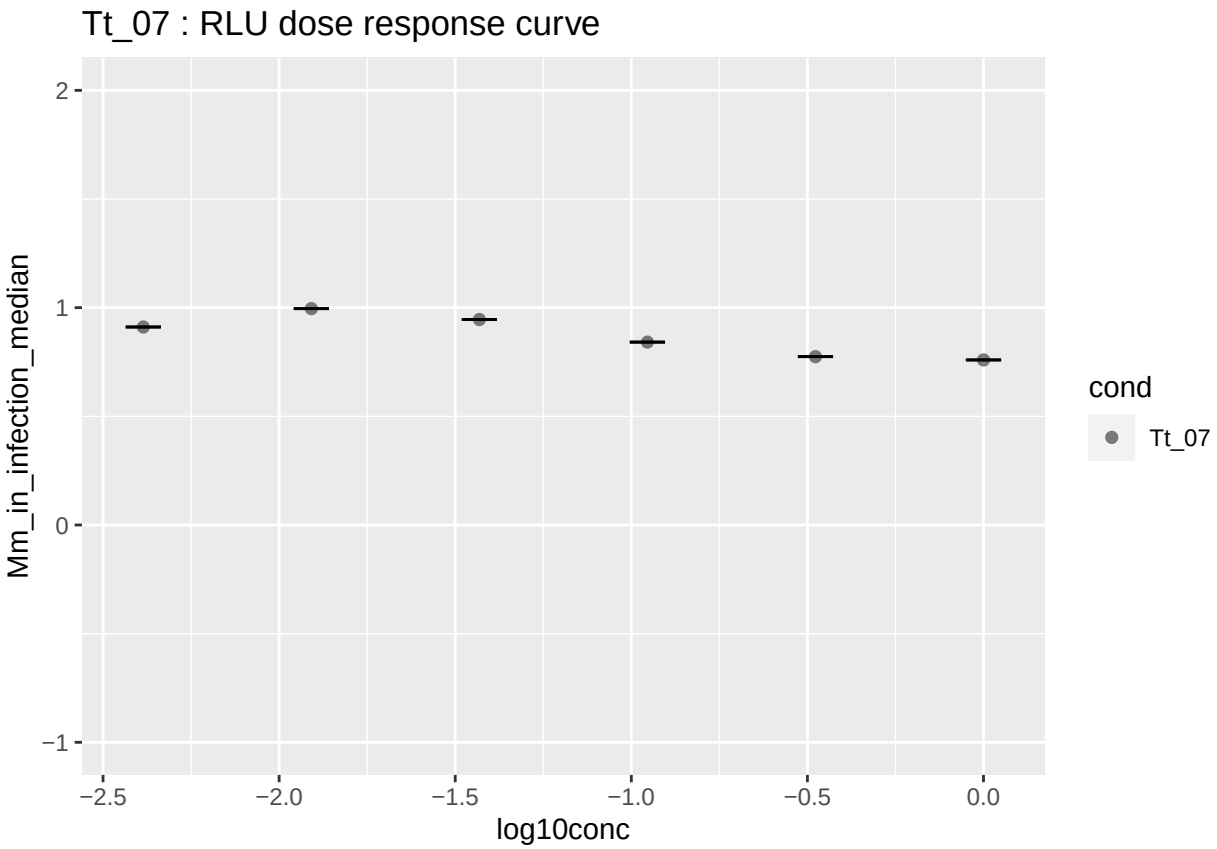

Sb_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

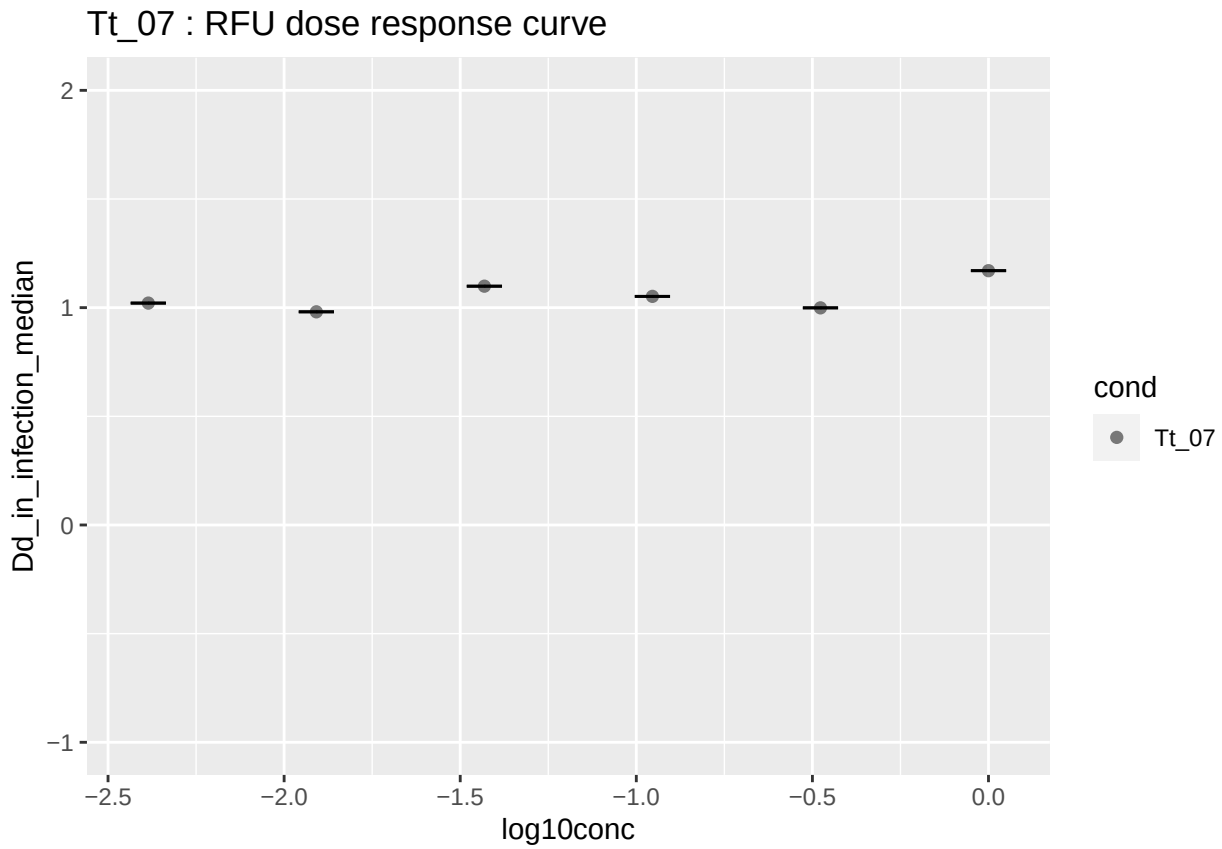

Sp_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35


Sp_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35

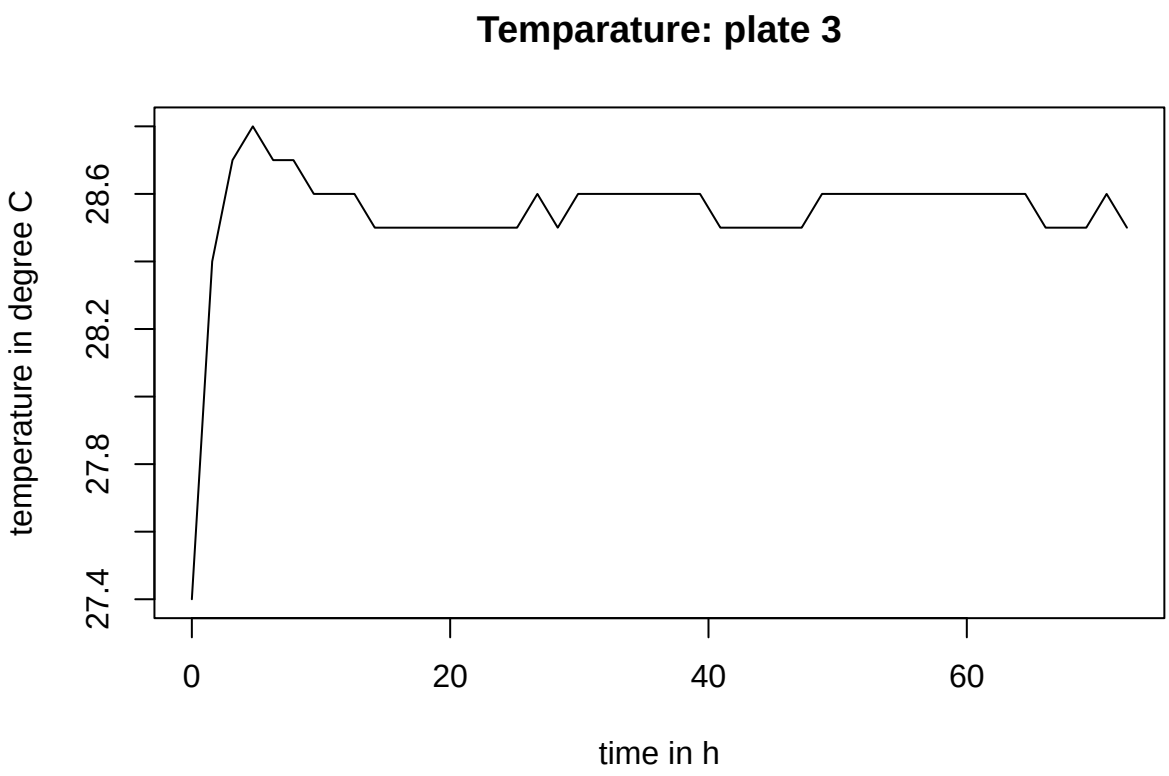

Sp_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36


Sp_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36

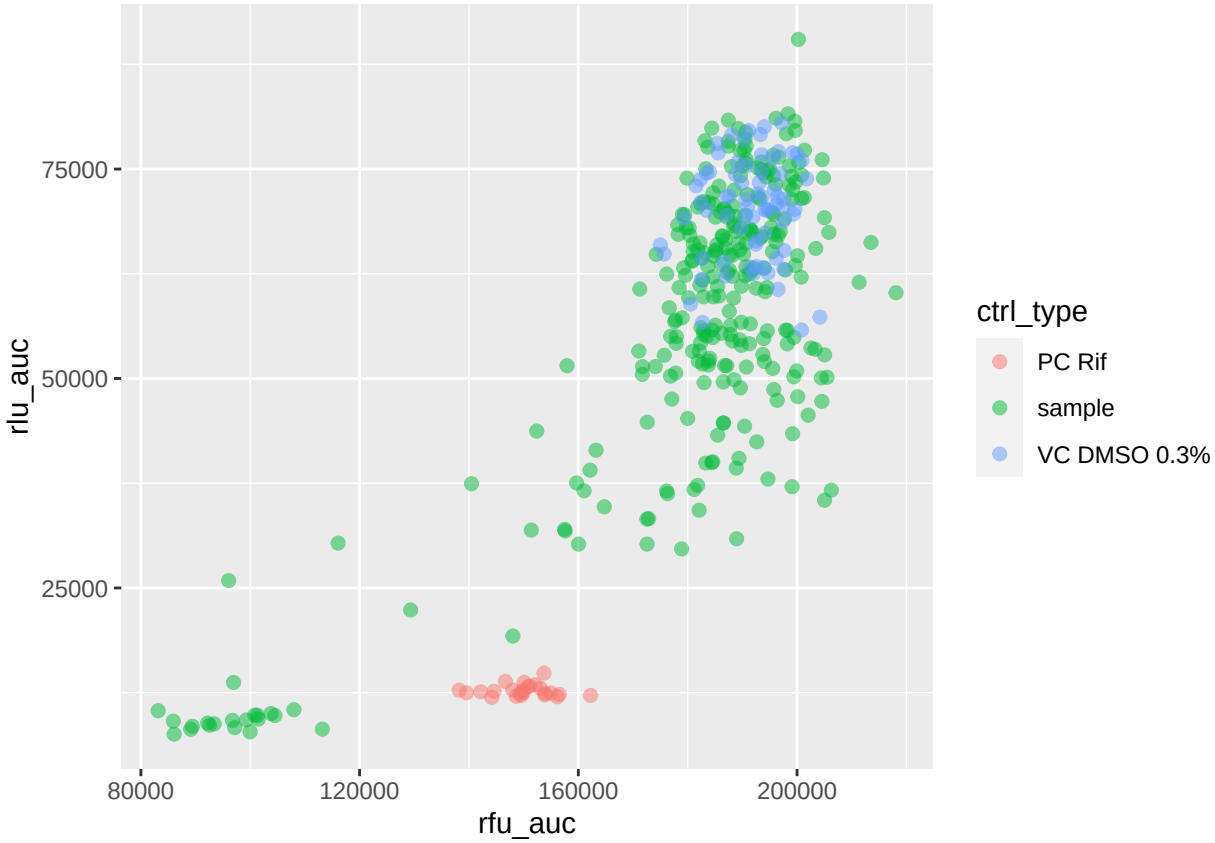

Tt_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Tt_07

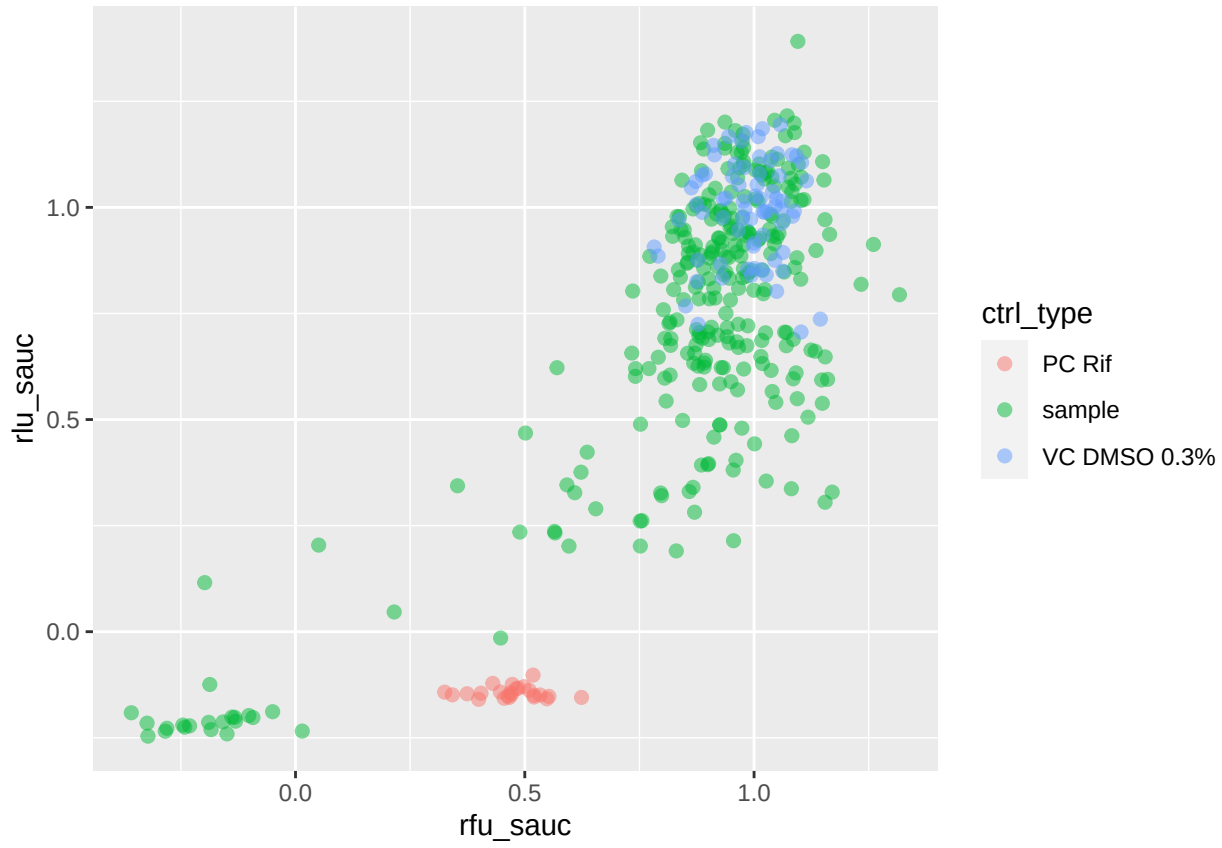


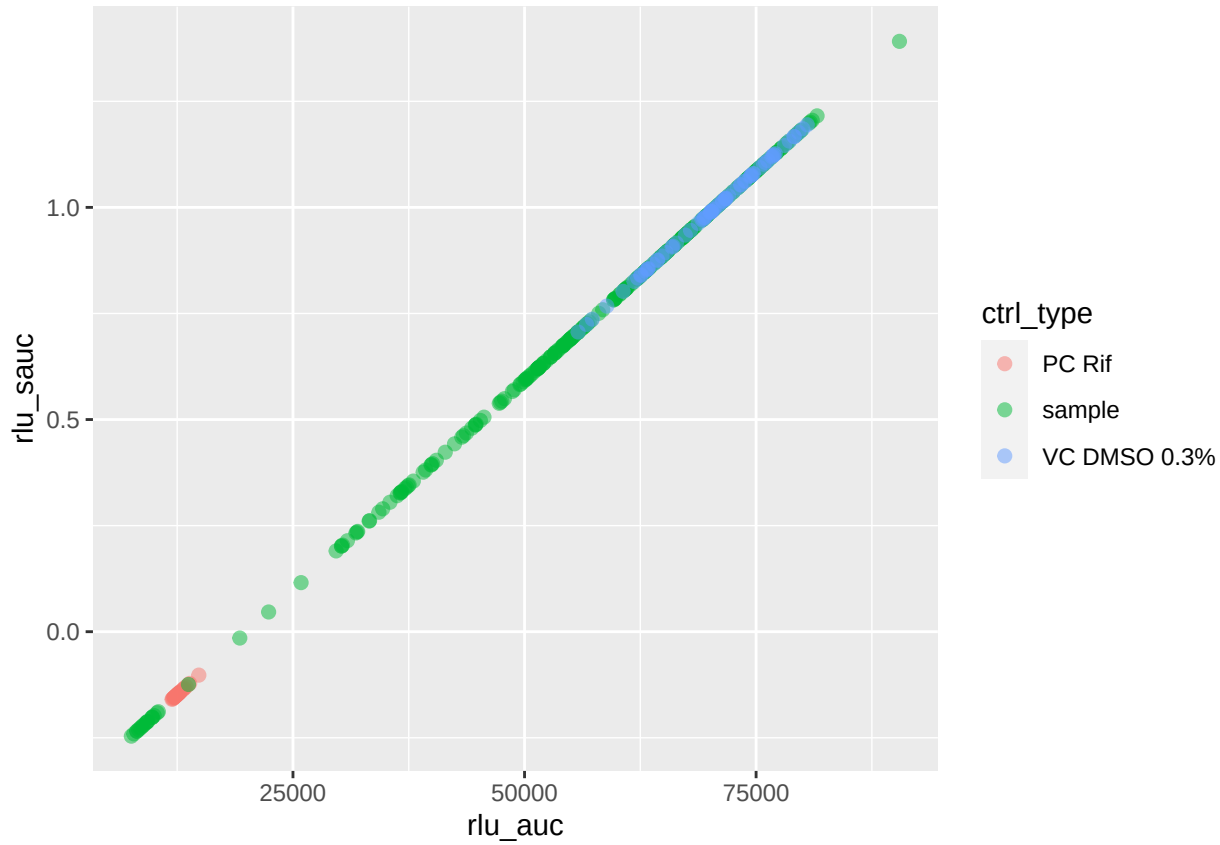

```
## [1] "analysis for plate04.xlsx"
```

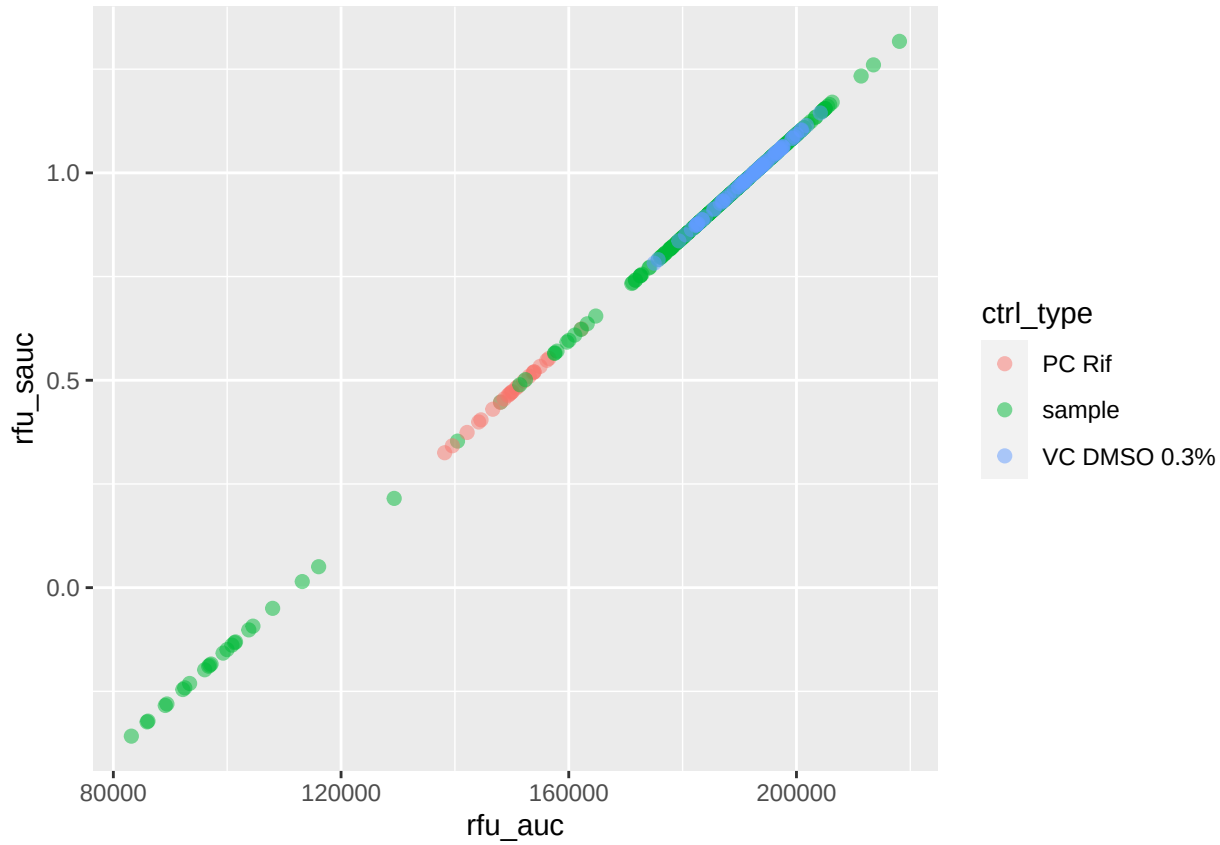


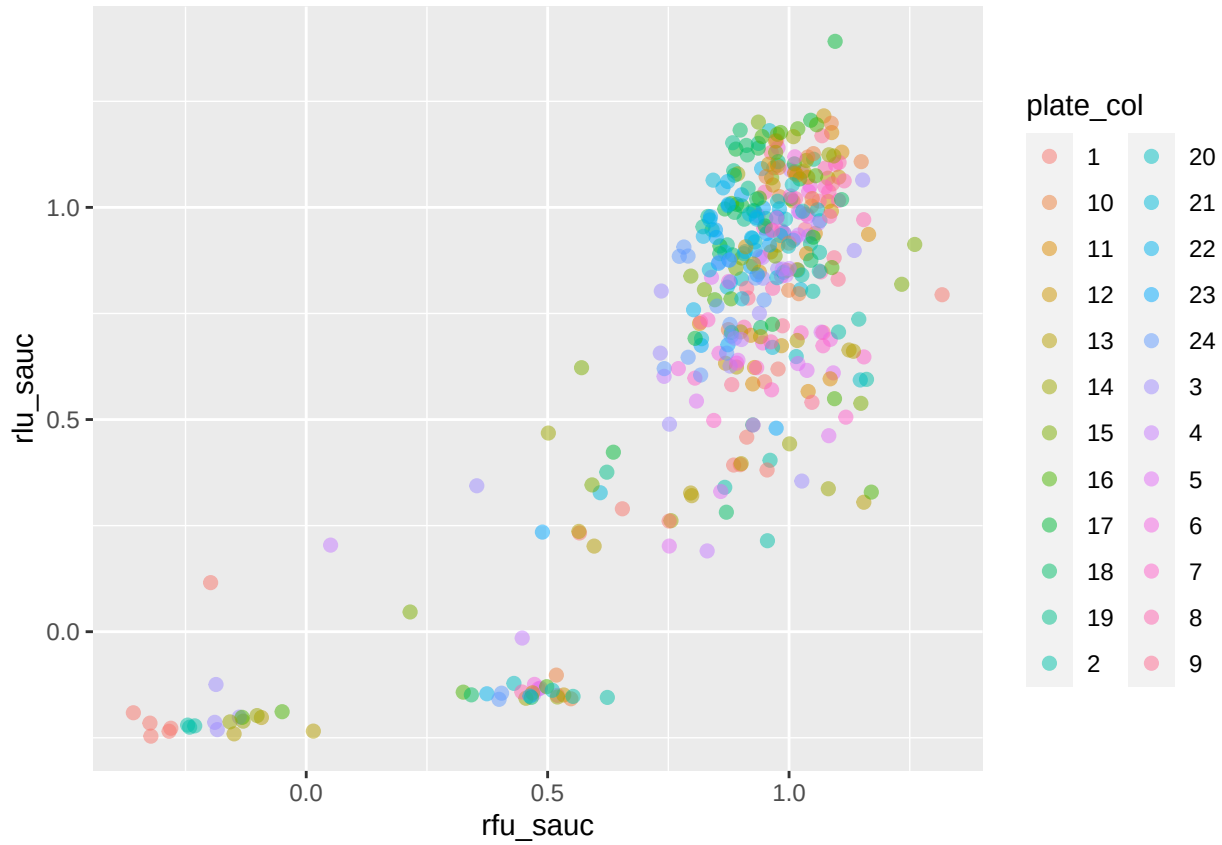

```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate04.xlsx, biorep 2 : "
## [1] 0.63
```

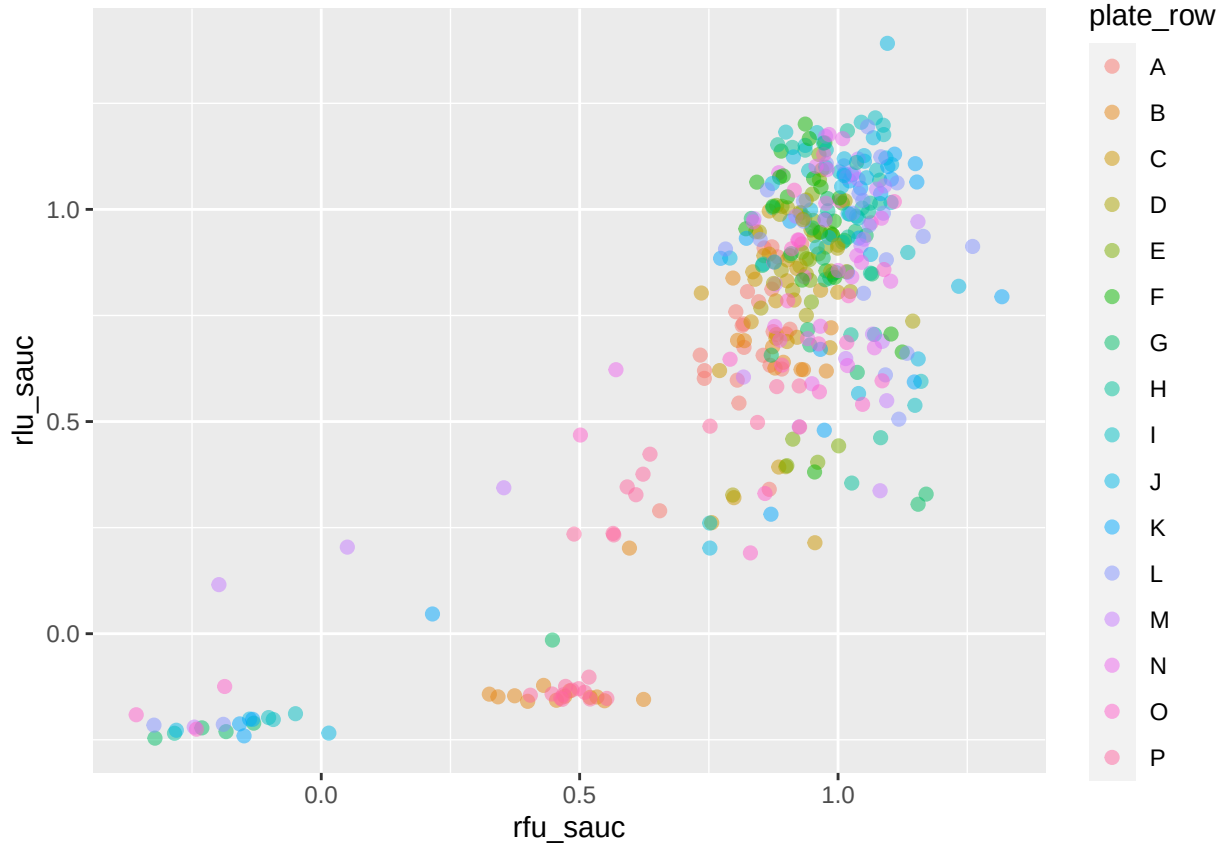

75000
50000
25000
rlu_auc
80000
120000
160000
200000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.0
0.5
0.0
rlu_sauc
0.0
0.5
1.0
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

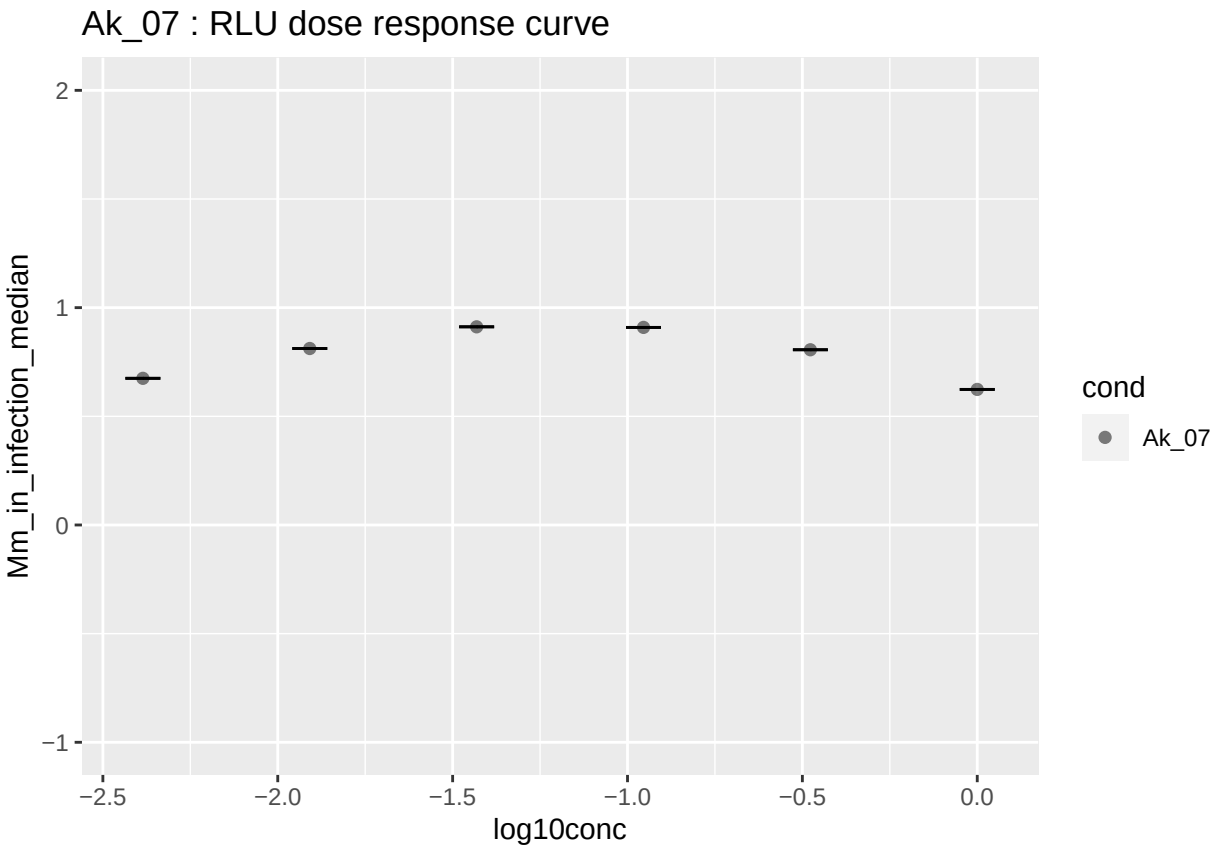

1.0
0.5
0.0
rlu_sauc
25000
50000
75000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

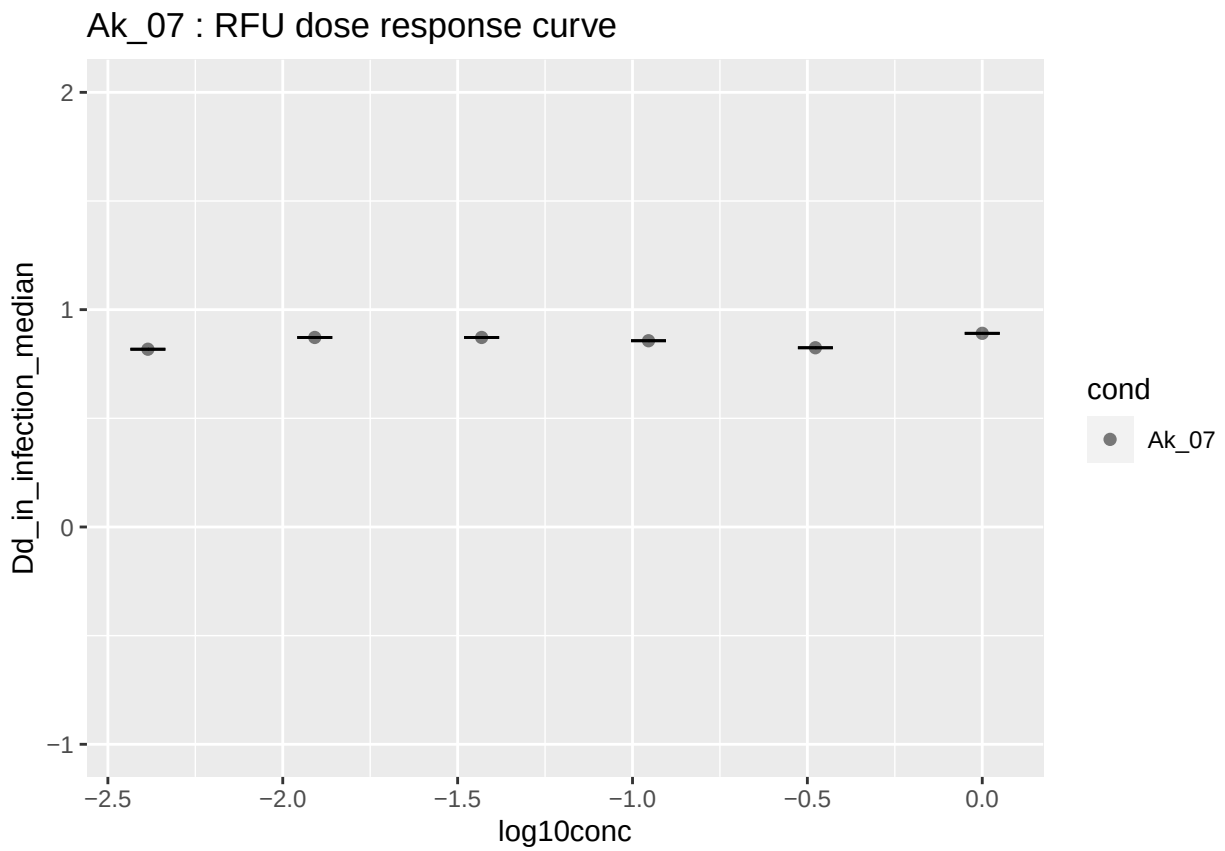

1.0
0.5
0.0
rfu_sauc
80000
120000
160000
200000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

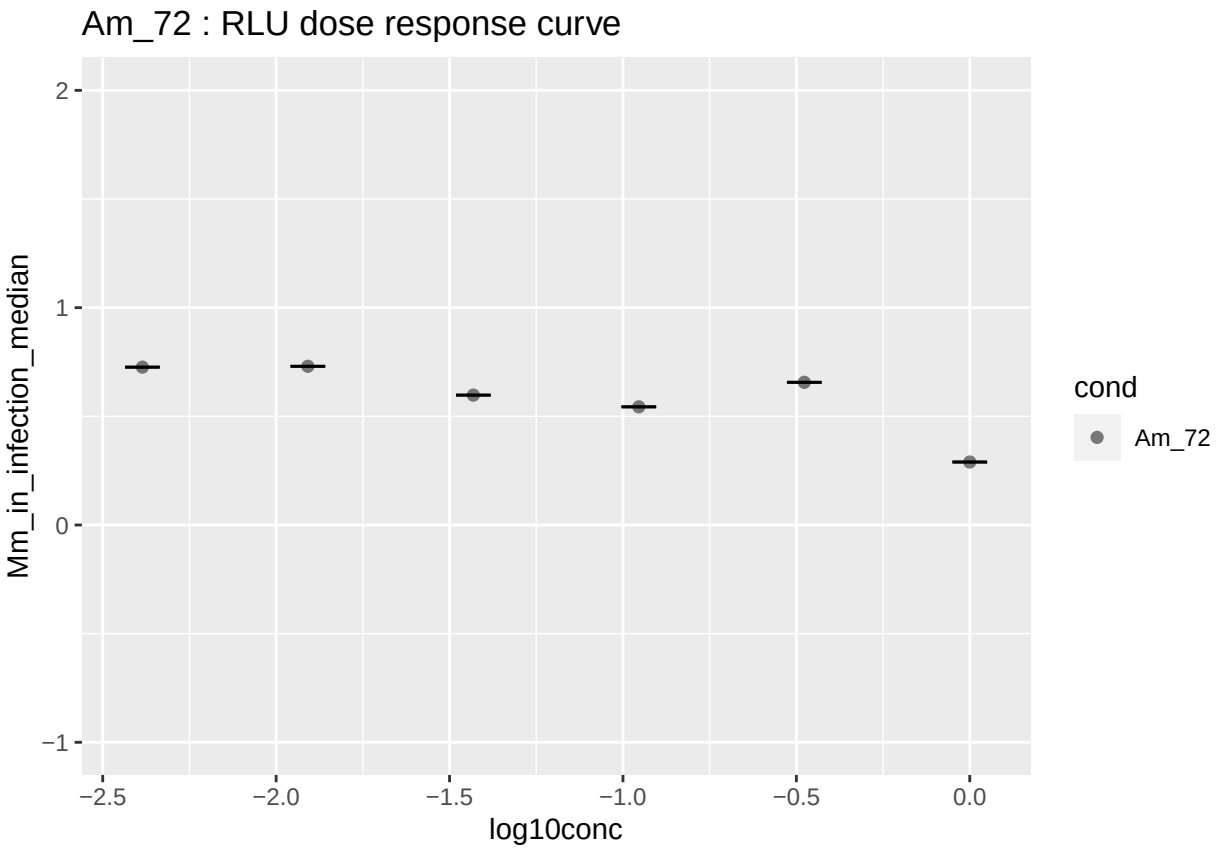

rlu_sauc
1.0
0.5
0.0
0.0
0.5
1.0
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

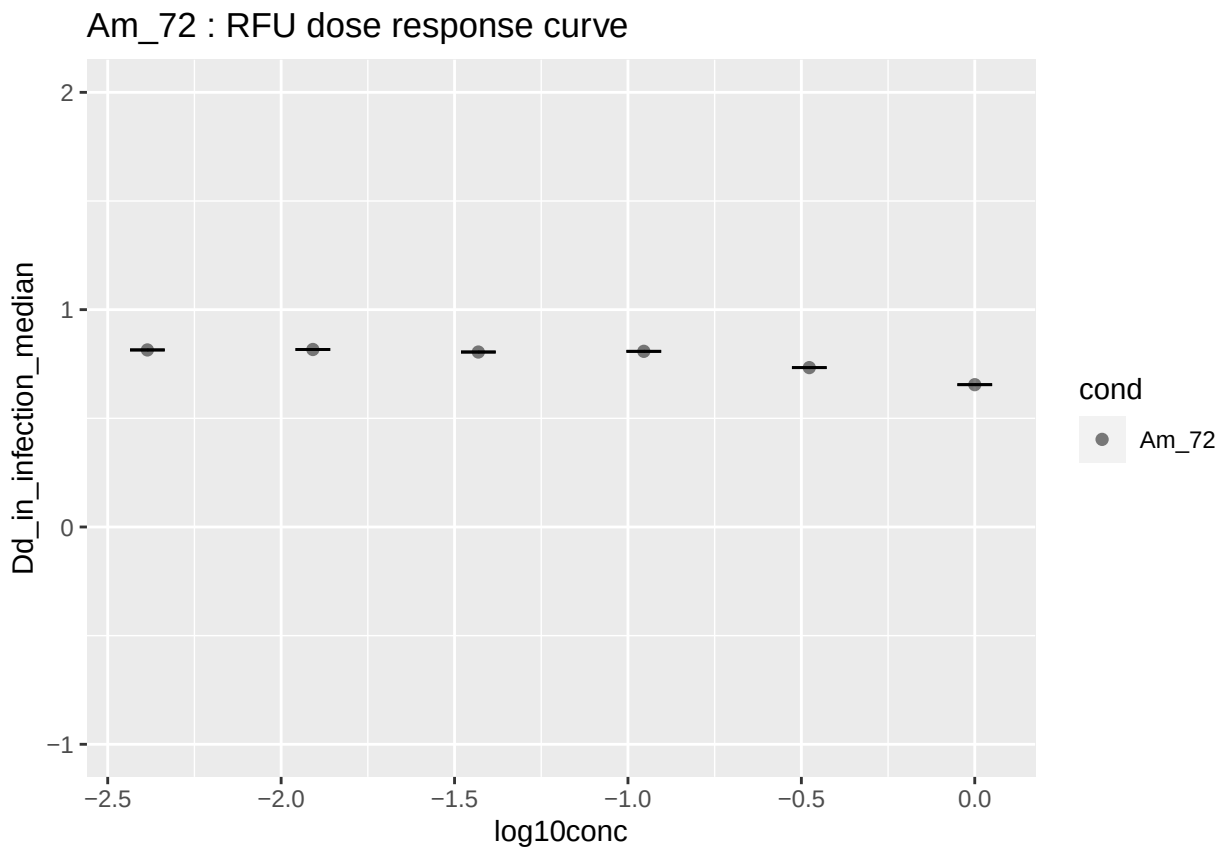


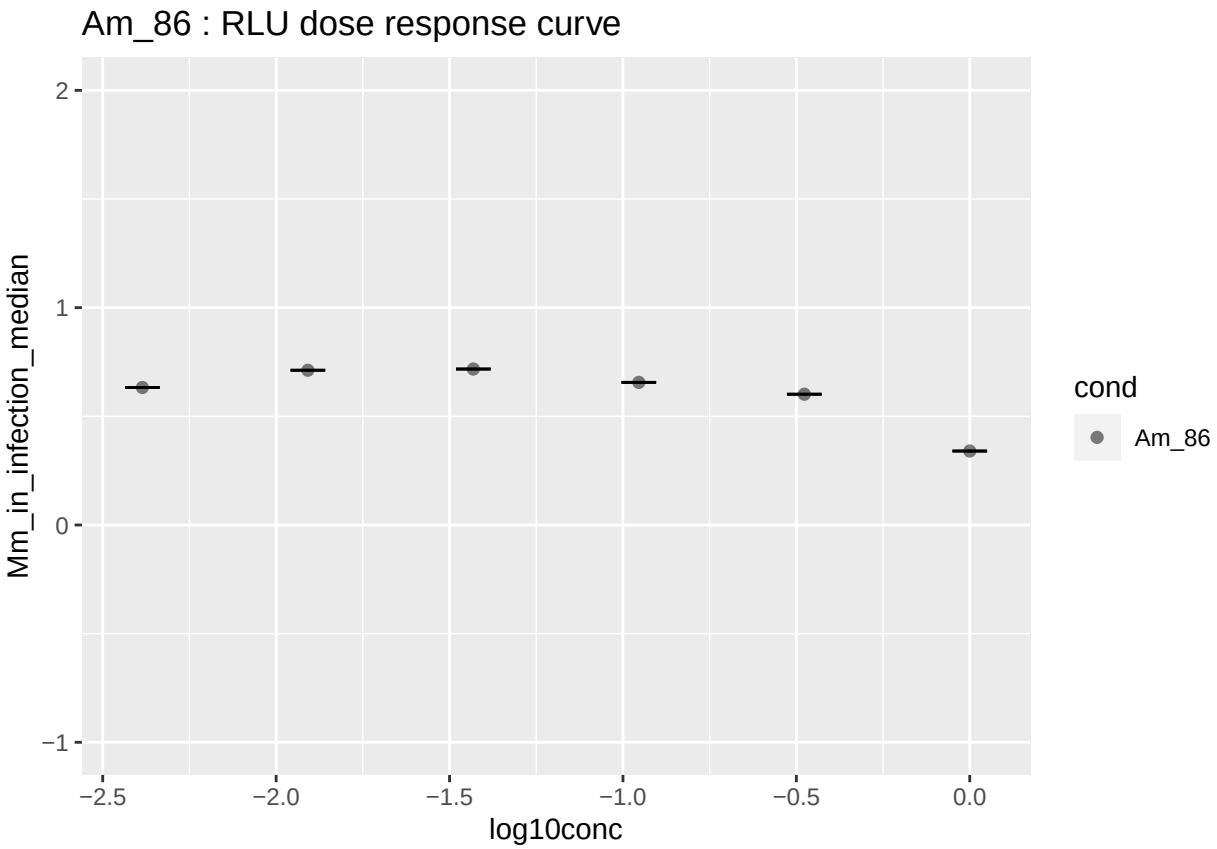

```
## [1] "Dose response curves over all bioreps within this plate"
```

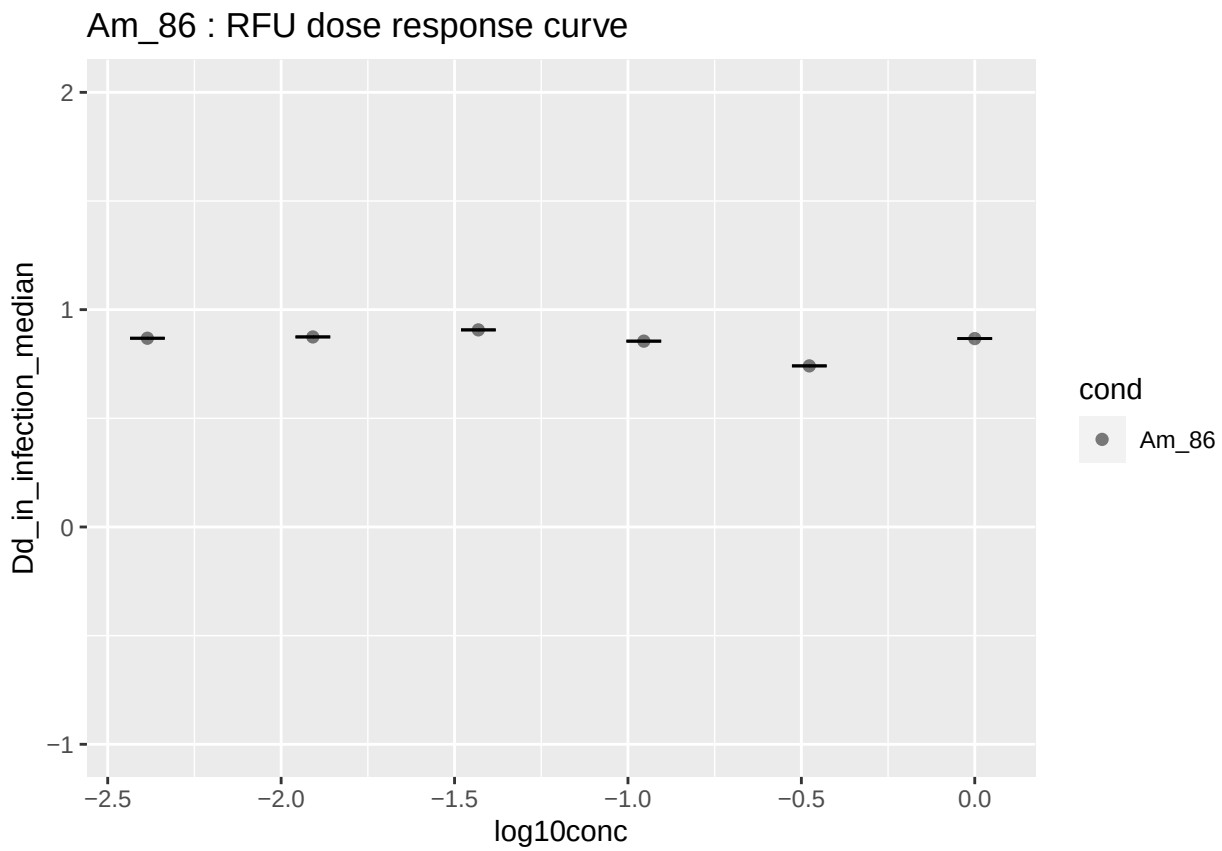

Ak_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

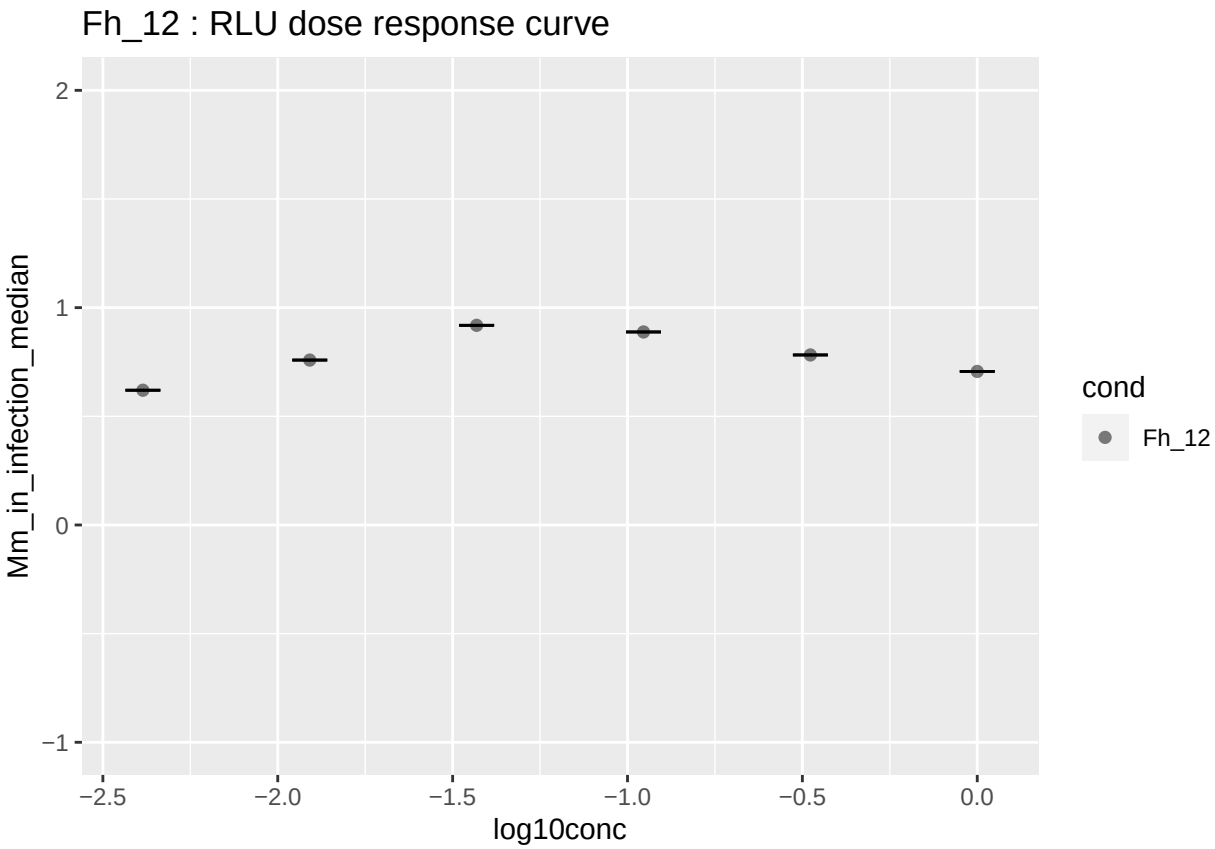

Ak_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

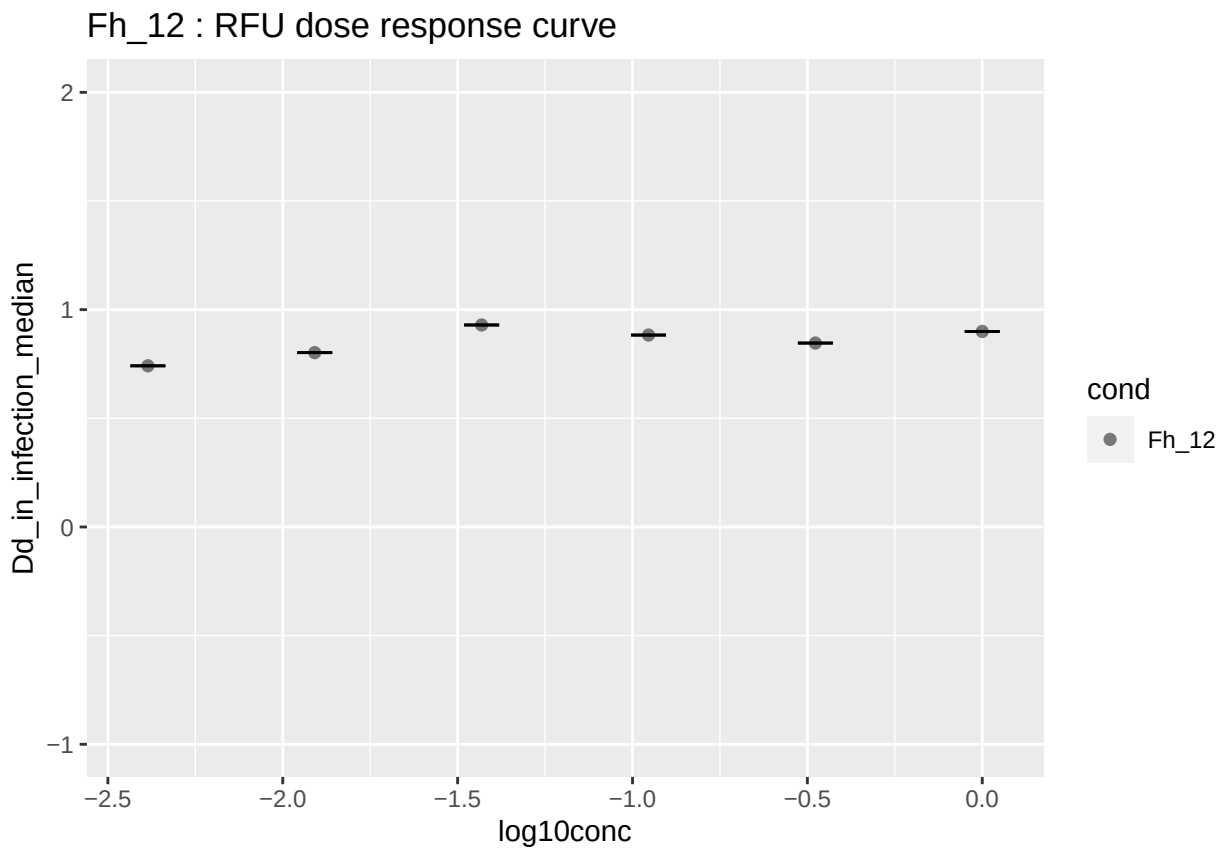

Am_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

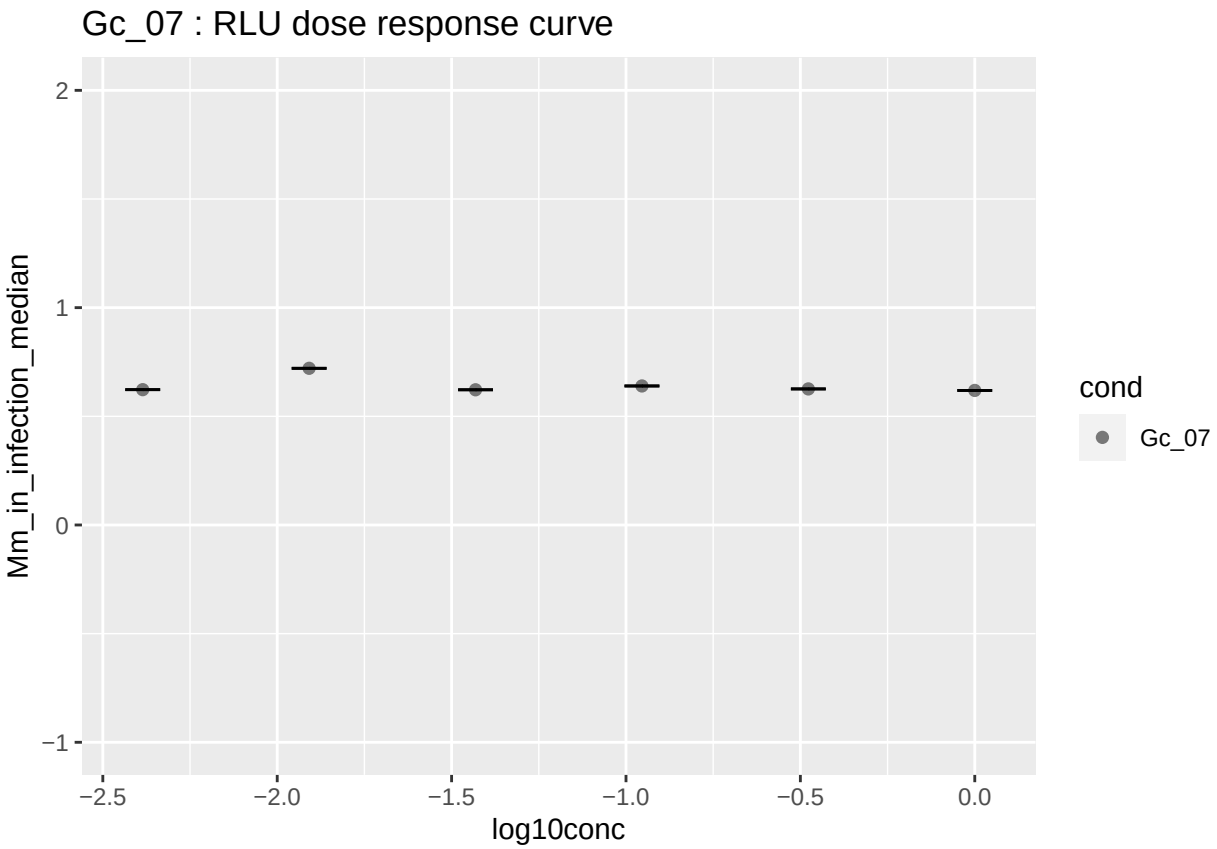

Am_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

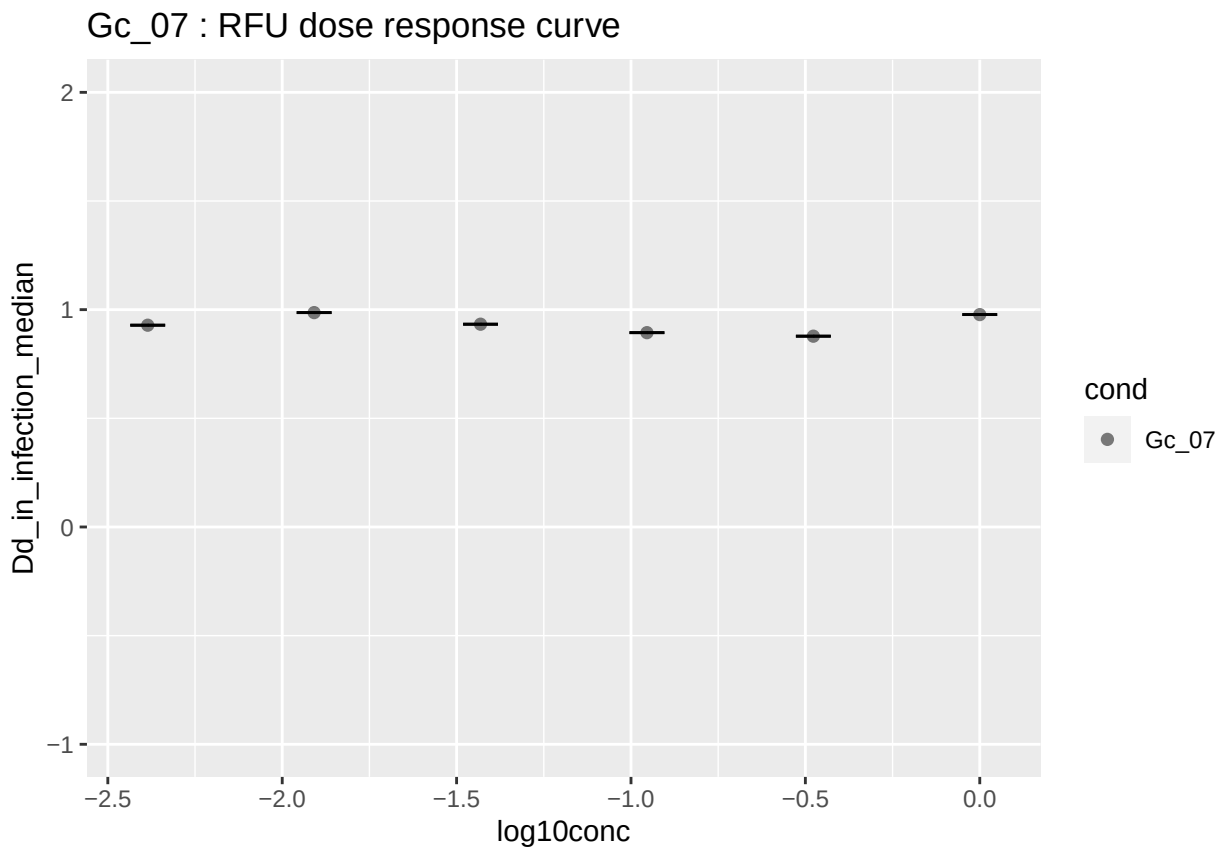

Am_86 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

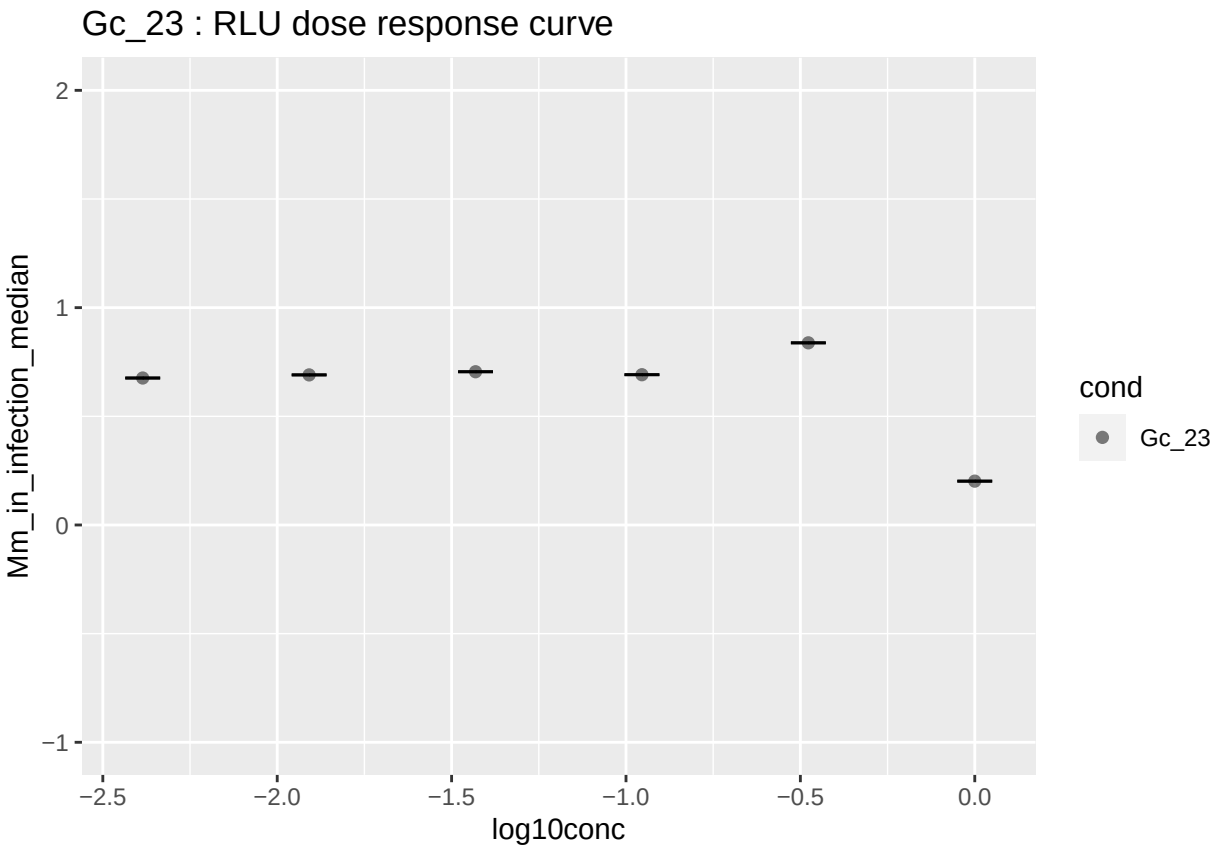

Am_86 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

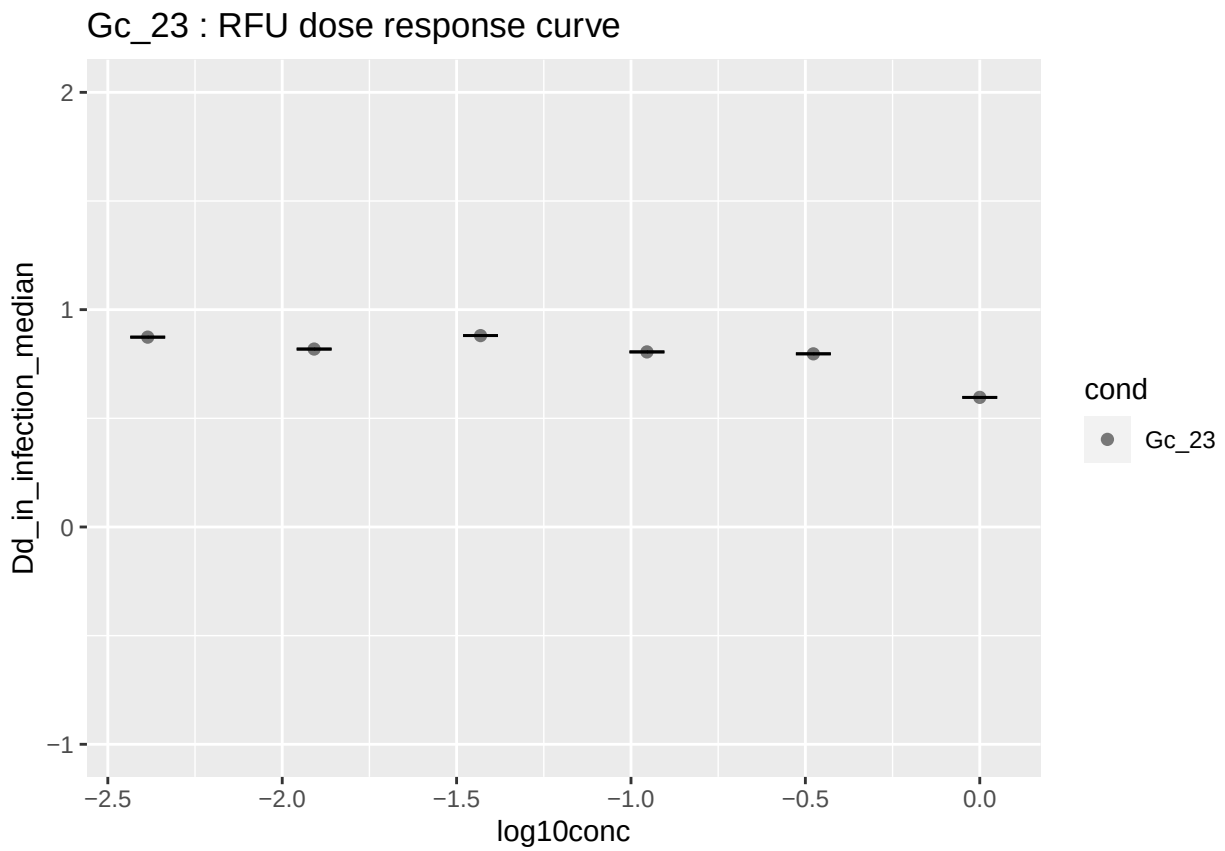

Fh_12 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

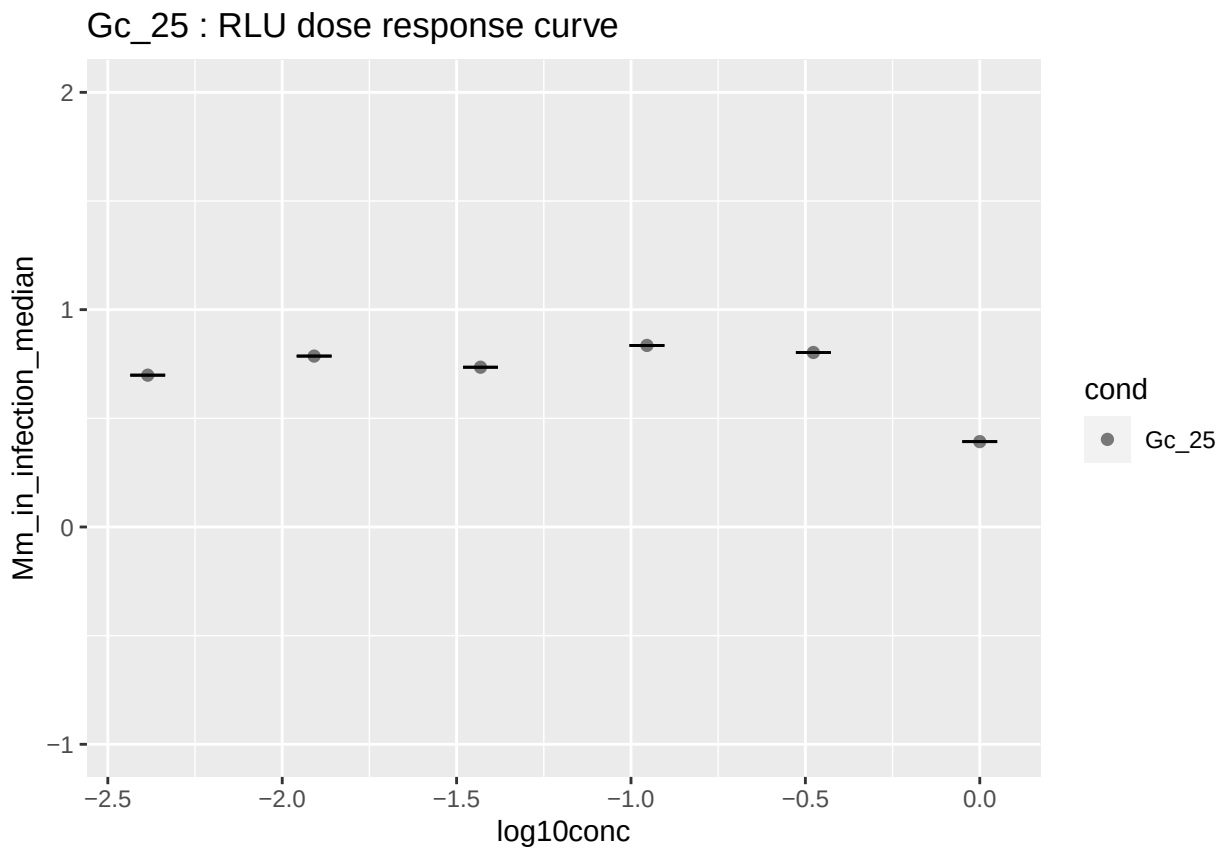

Fh_12 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

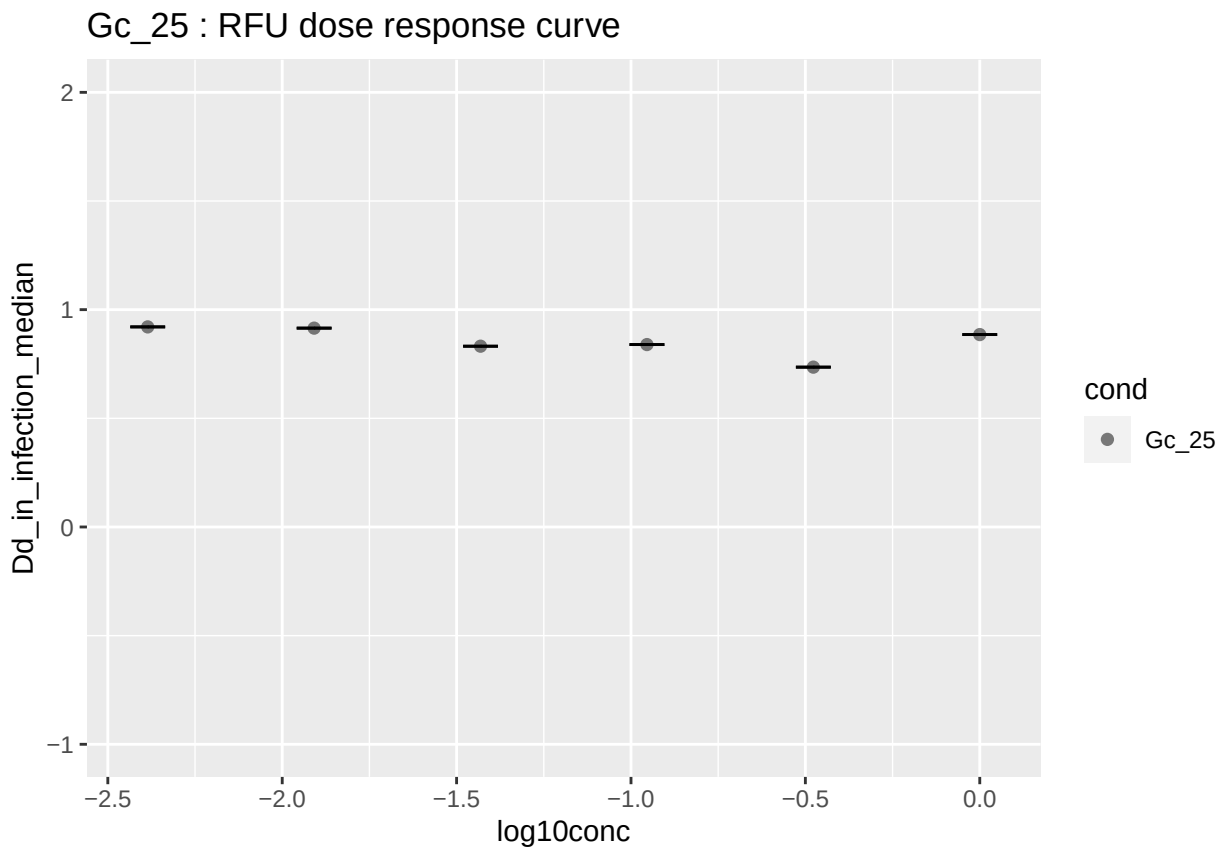

Gc_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

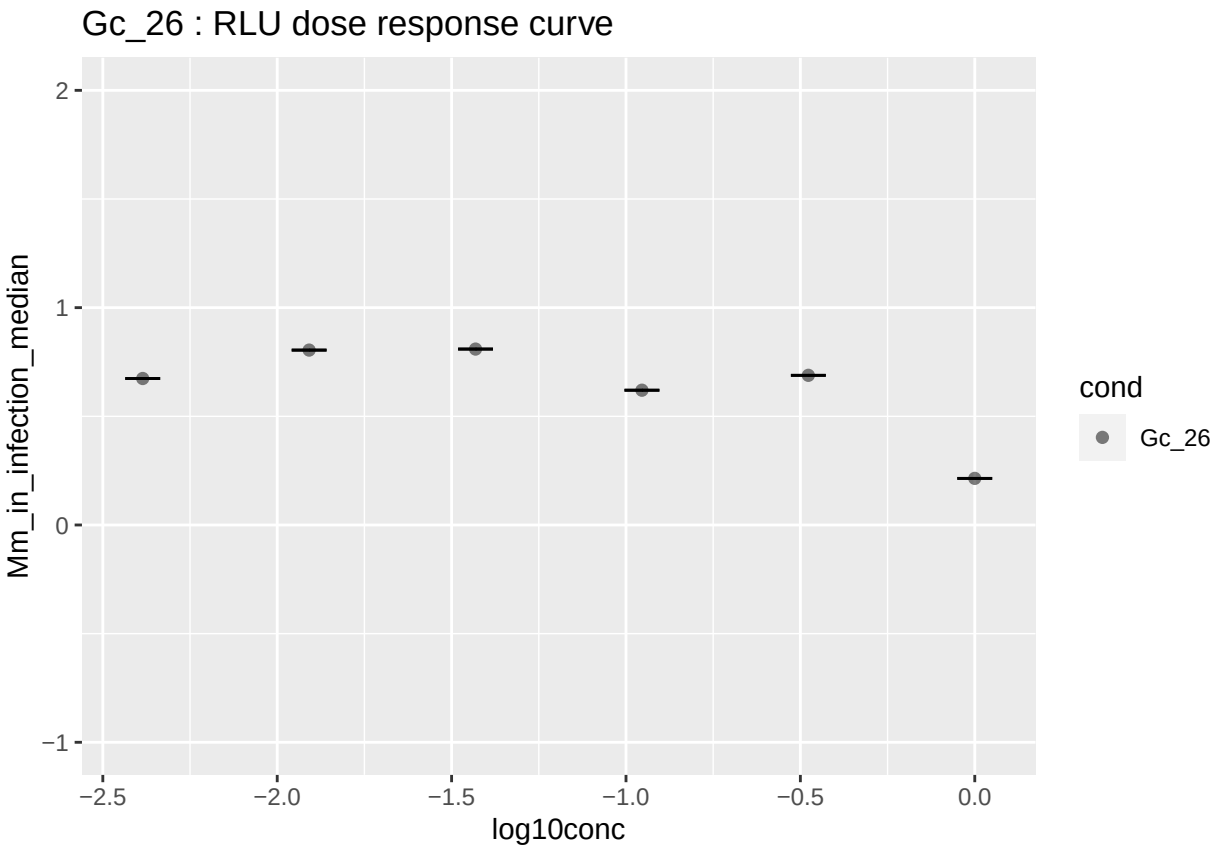

Gc_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

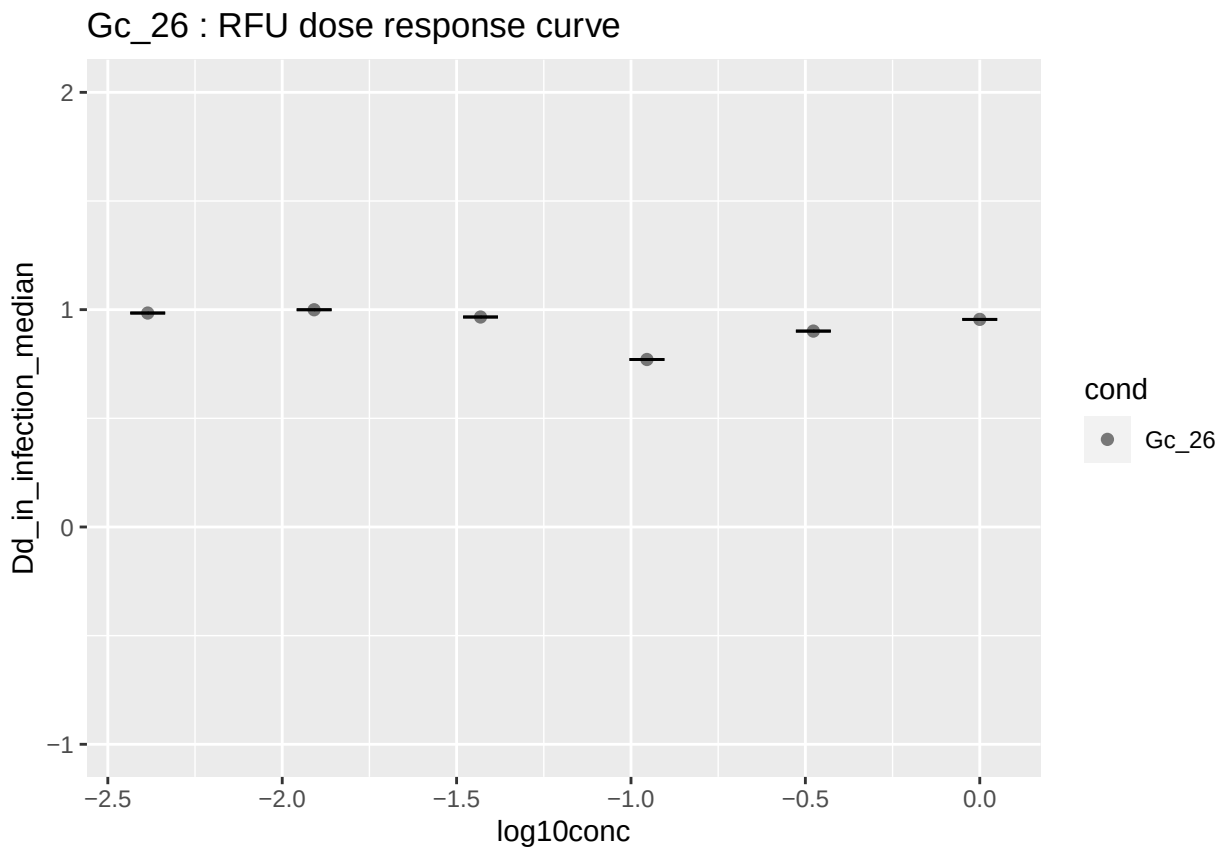

Gc_23 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

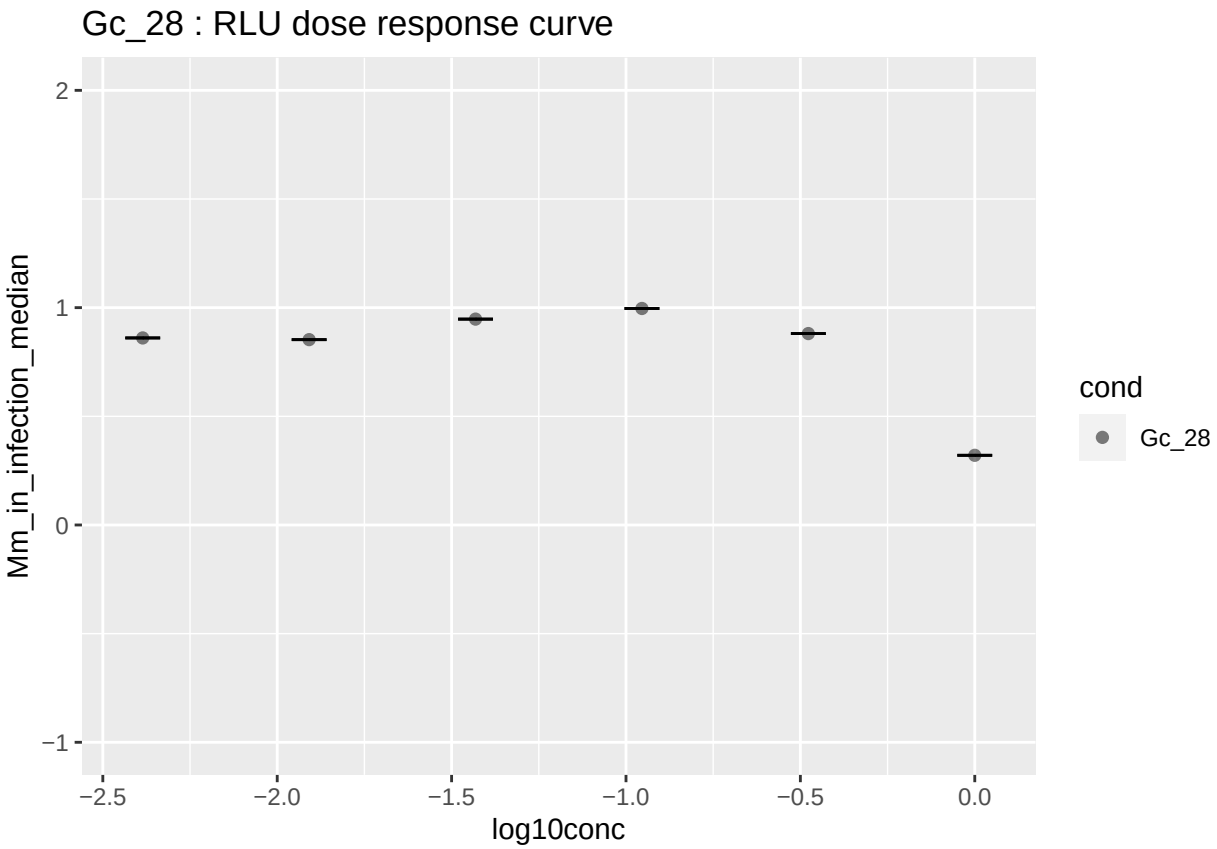

Gc_23 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

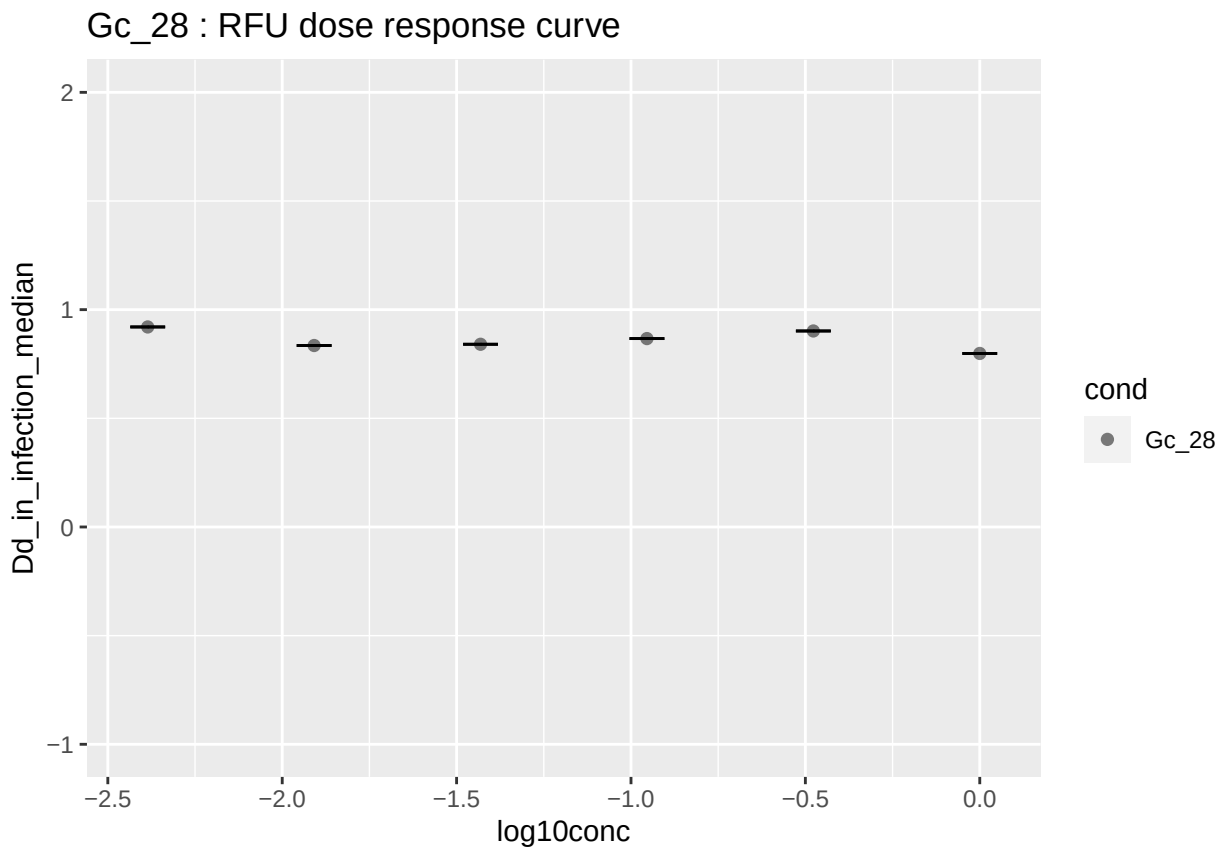

Gc_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

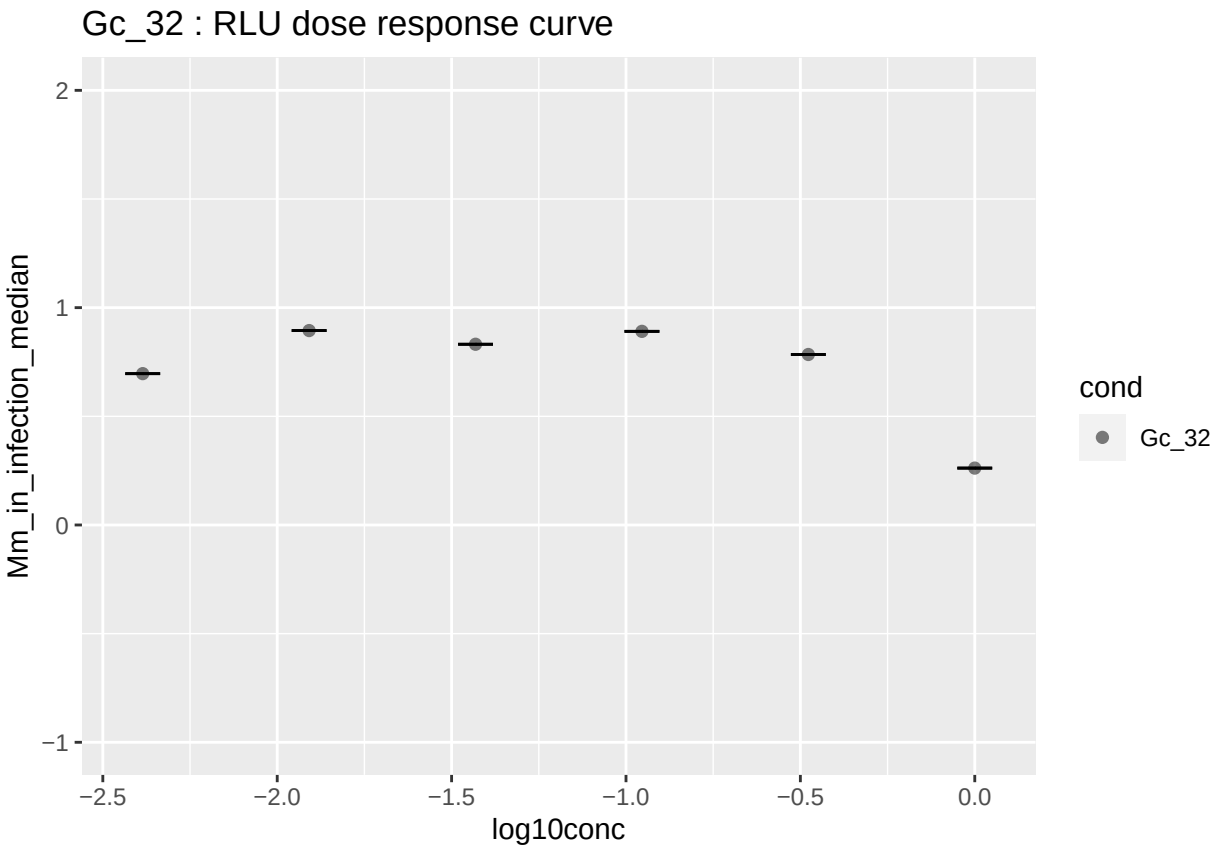

Gc_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

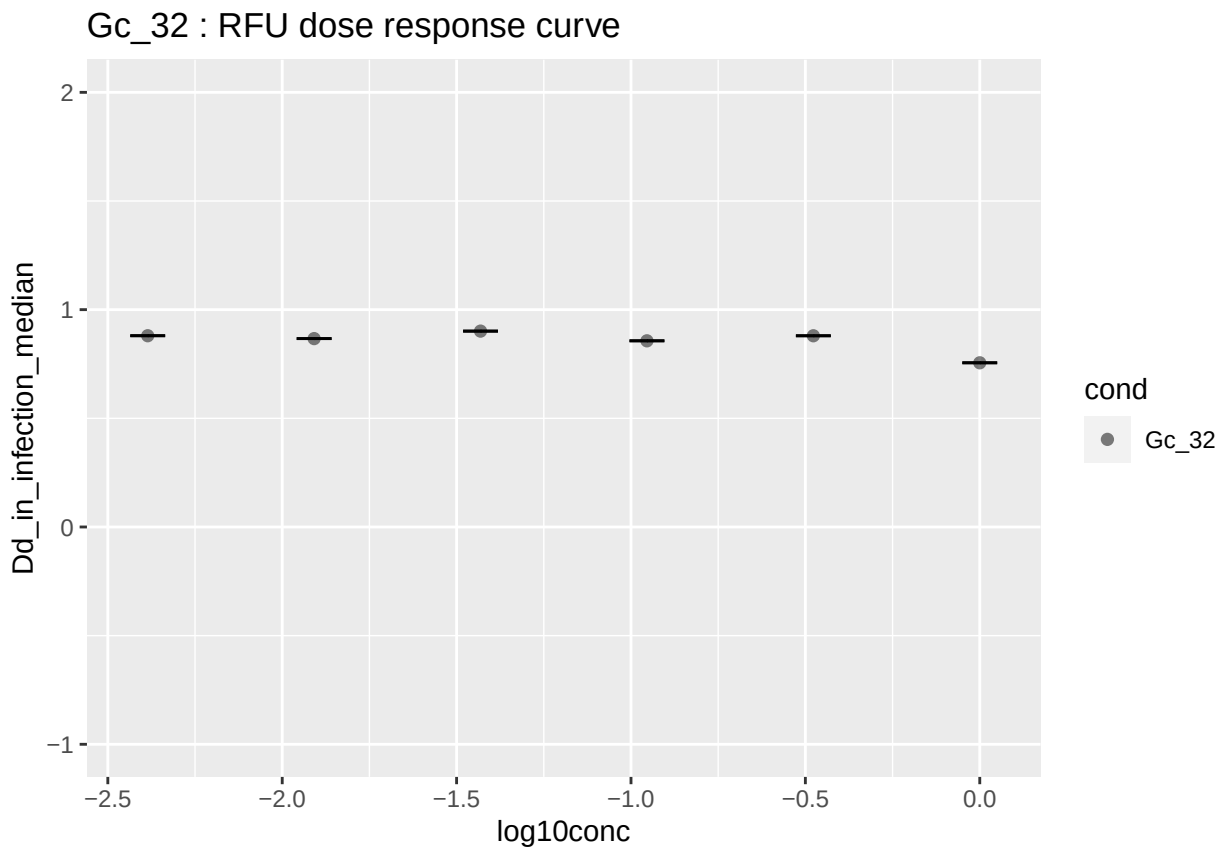

Gc_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

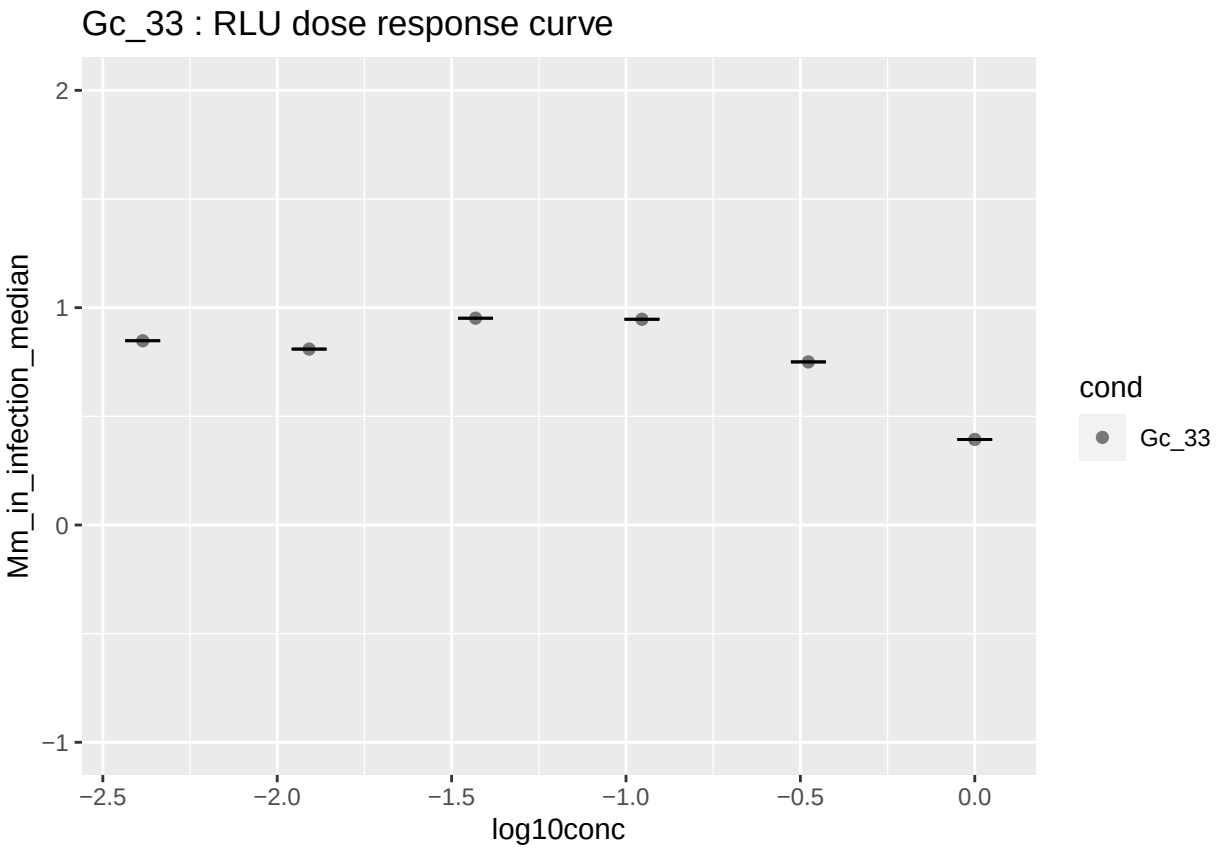

Gc_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

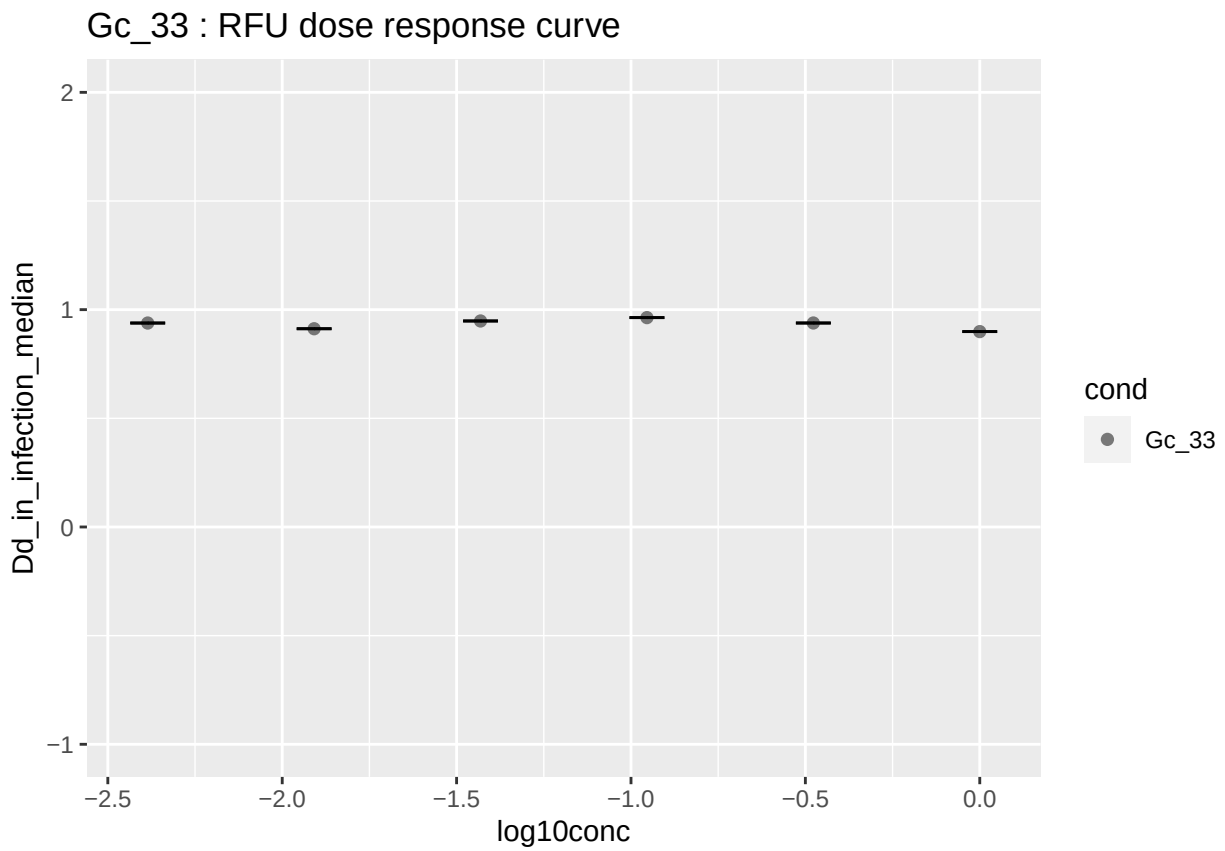

Gc_28 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

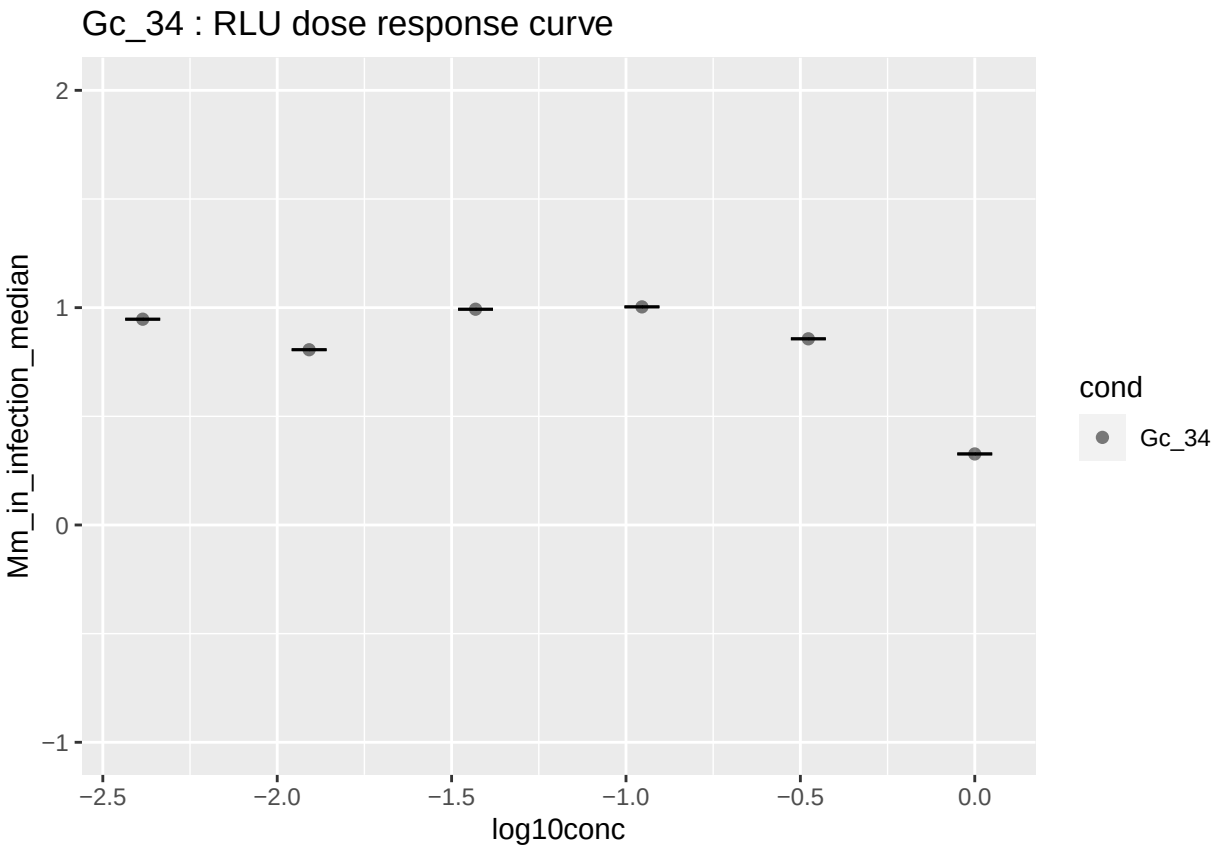

Gc_28 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

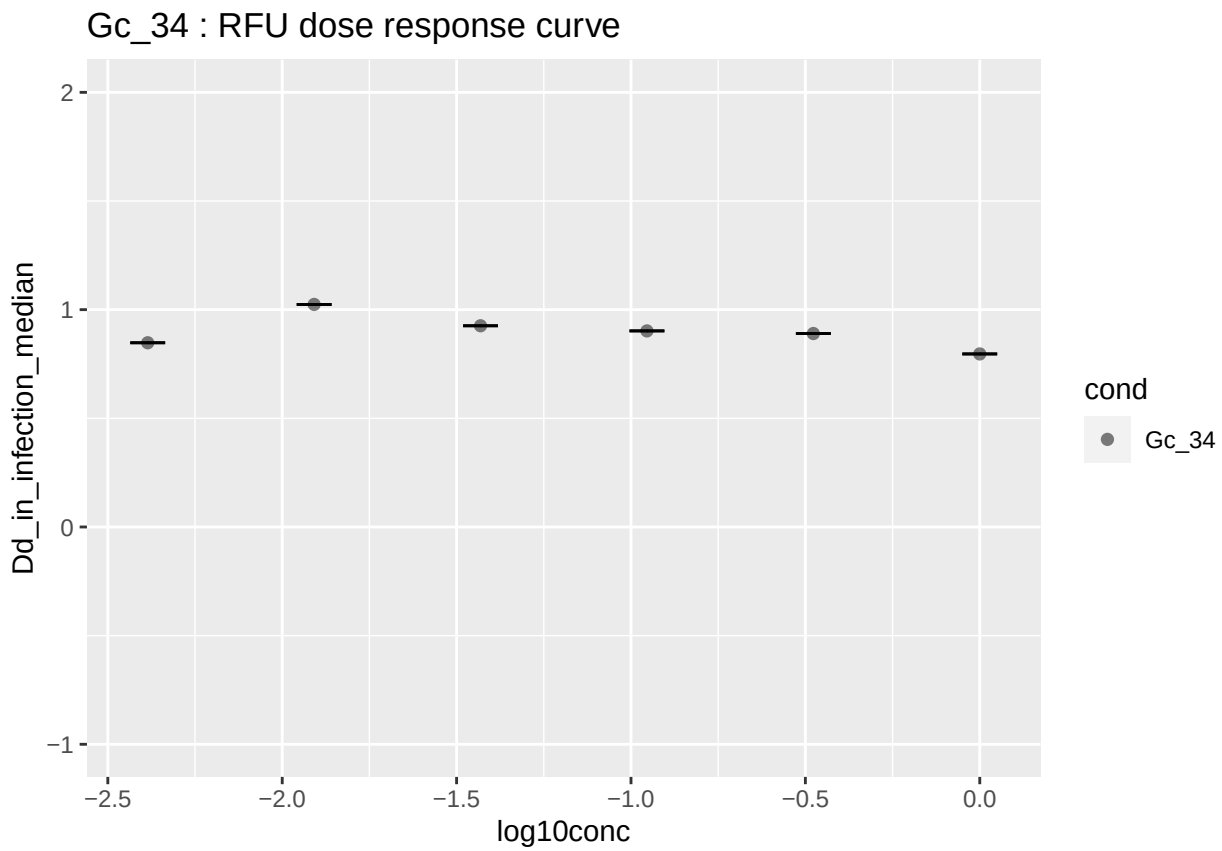

Gc_32 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

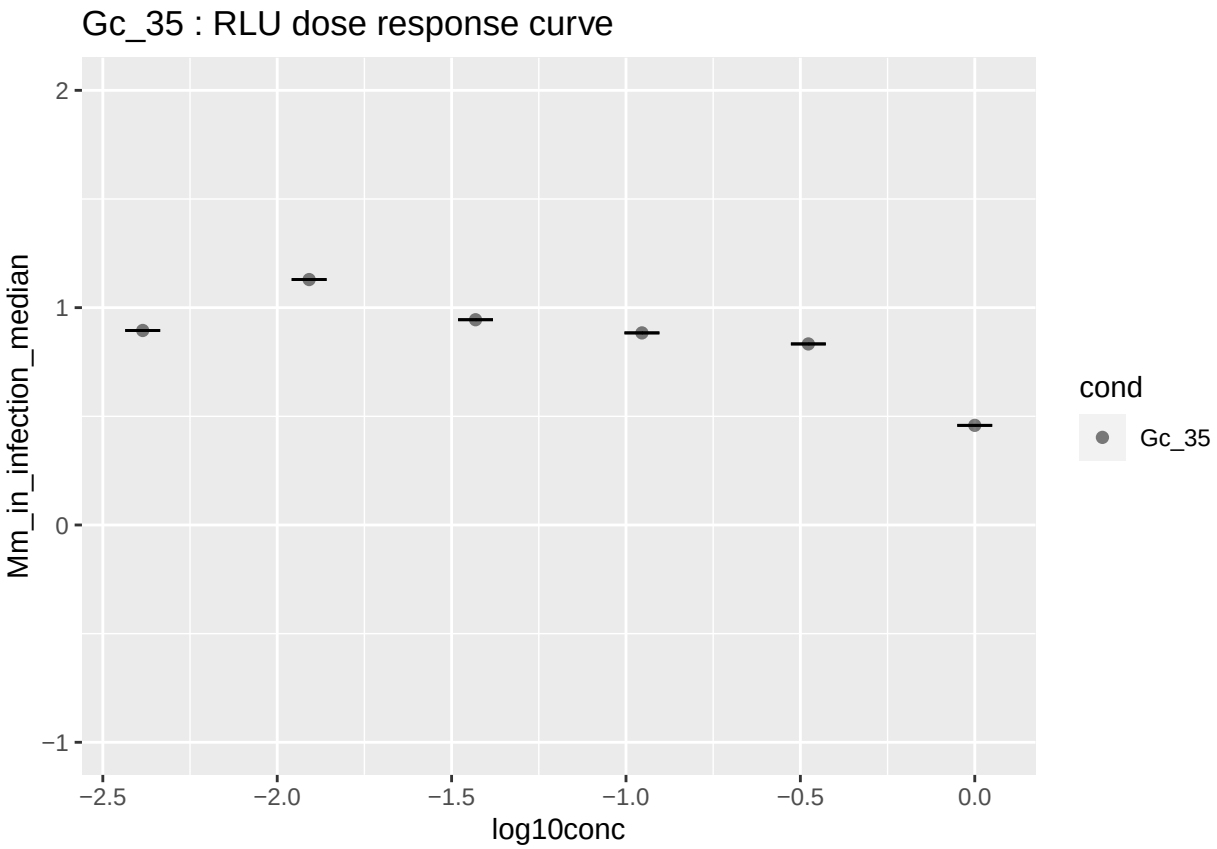

Gc_32 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

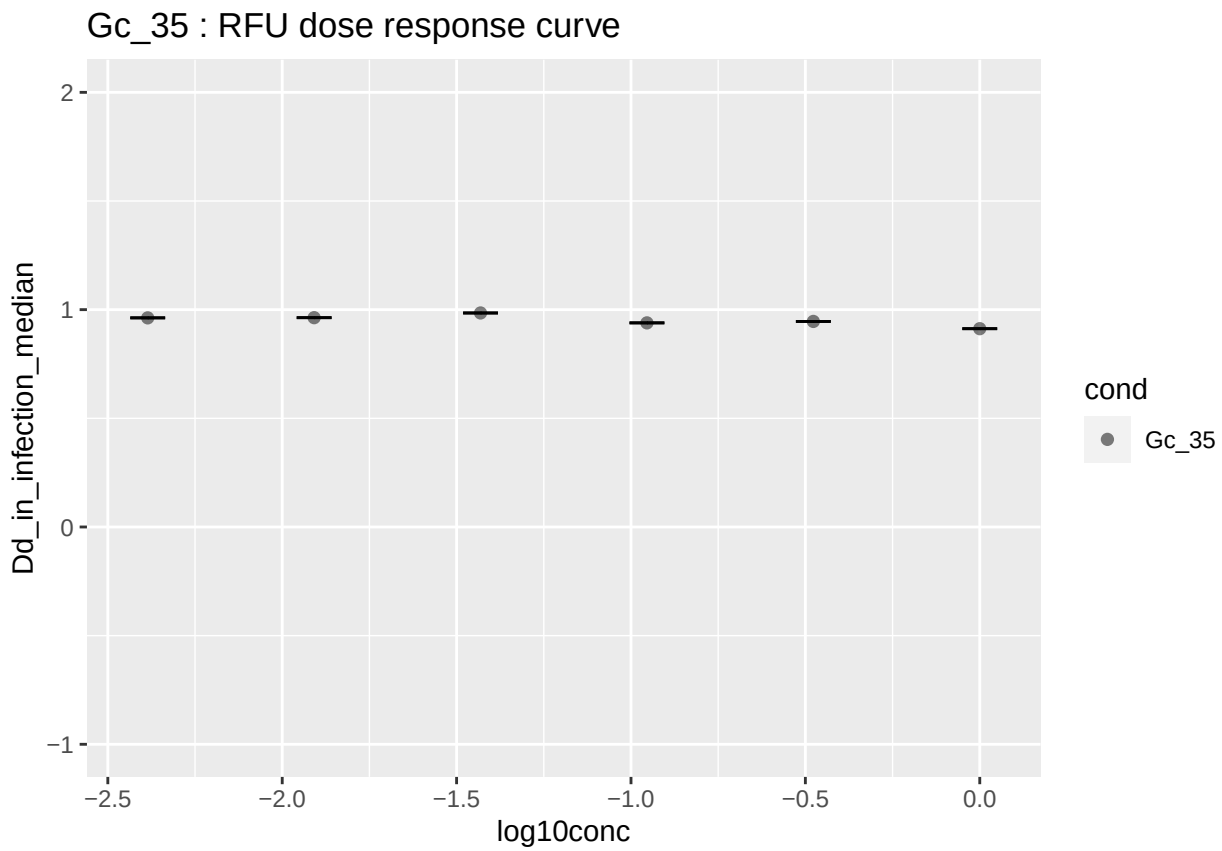

Gc_33 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

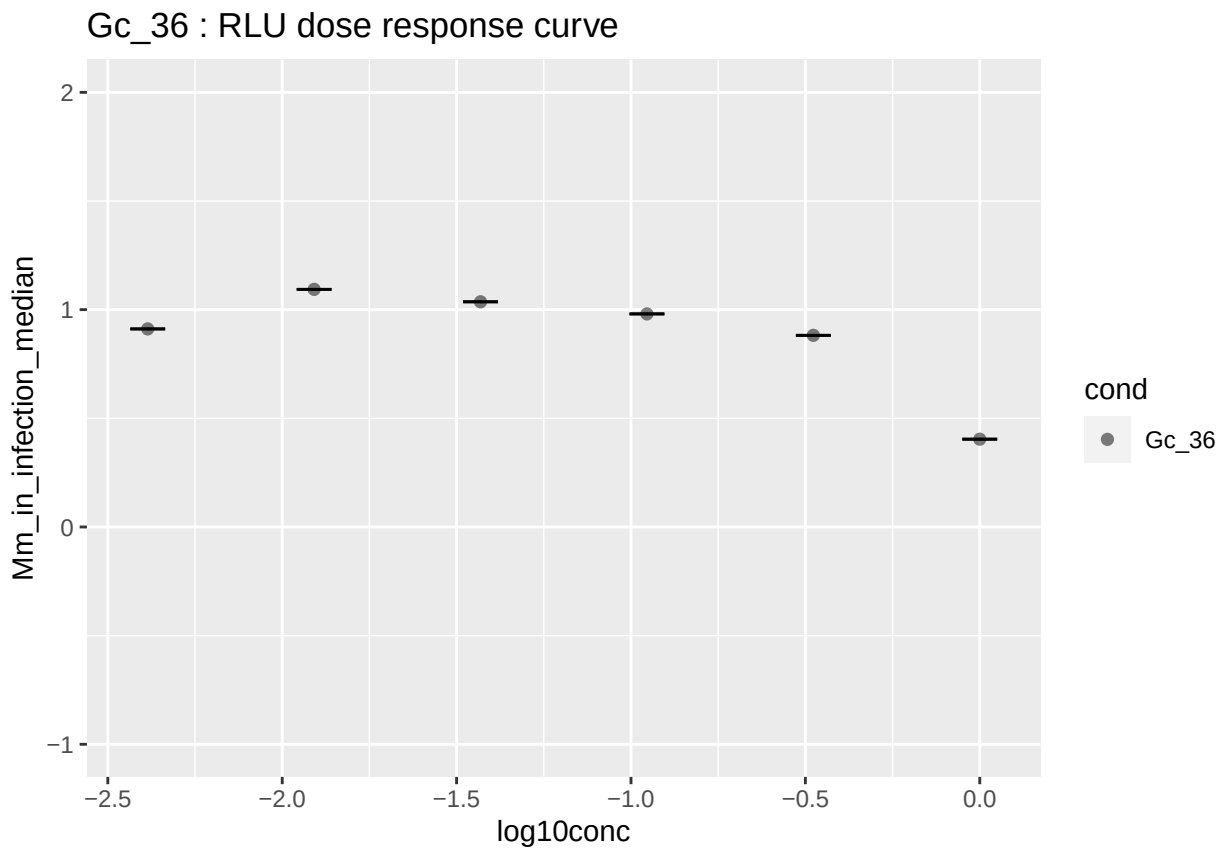

Gc_33 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

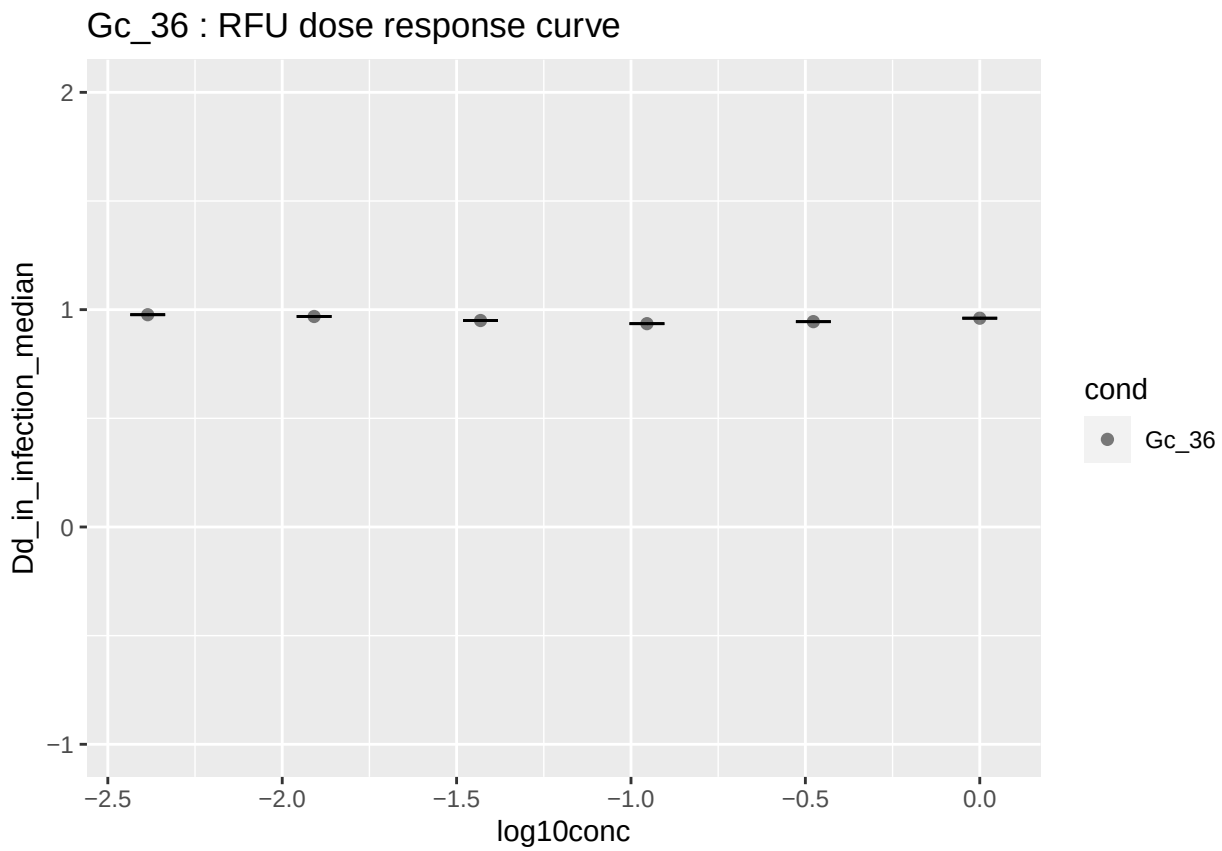

Gc_34 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

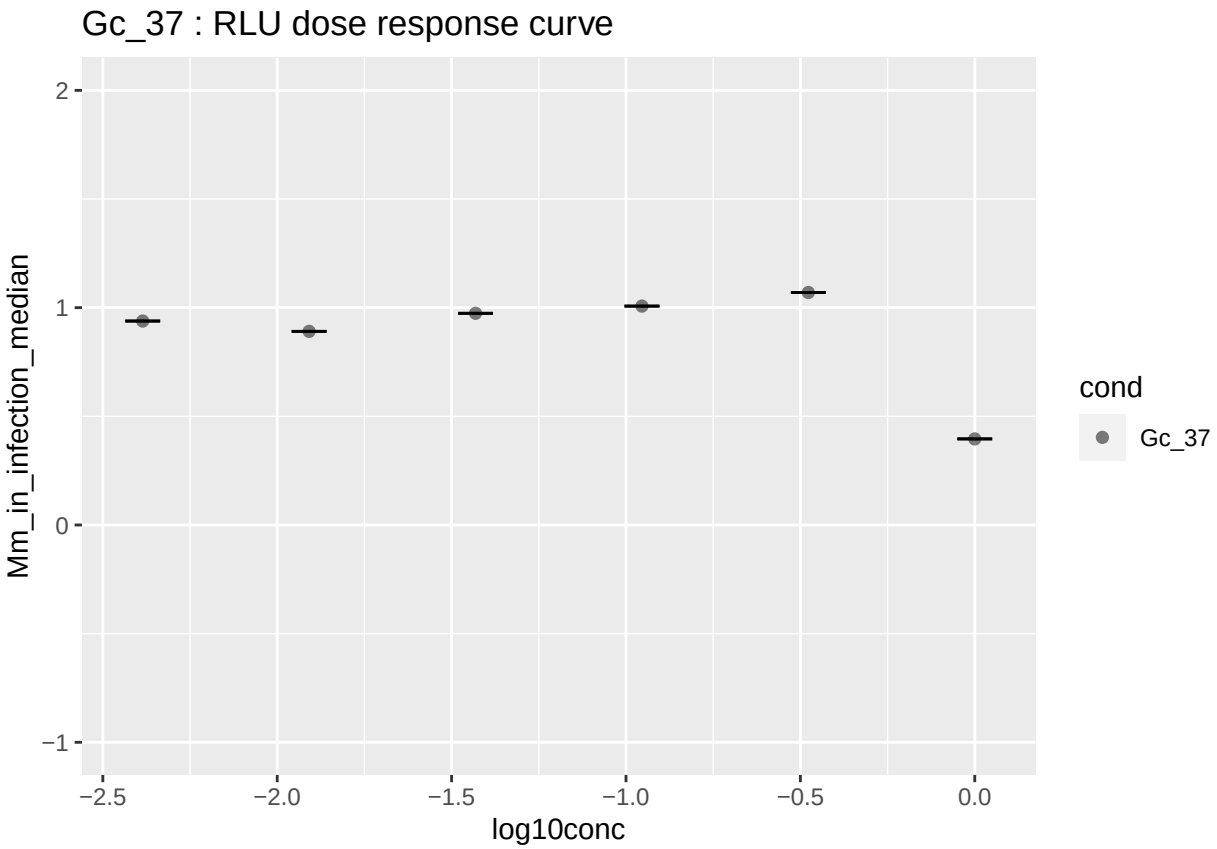

Gc_34 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

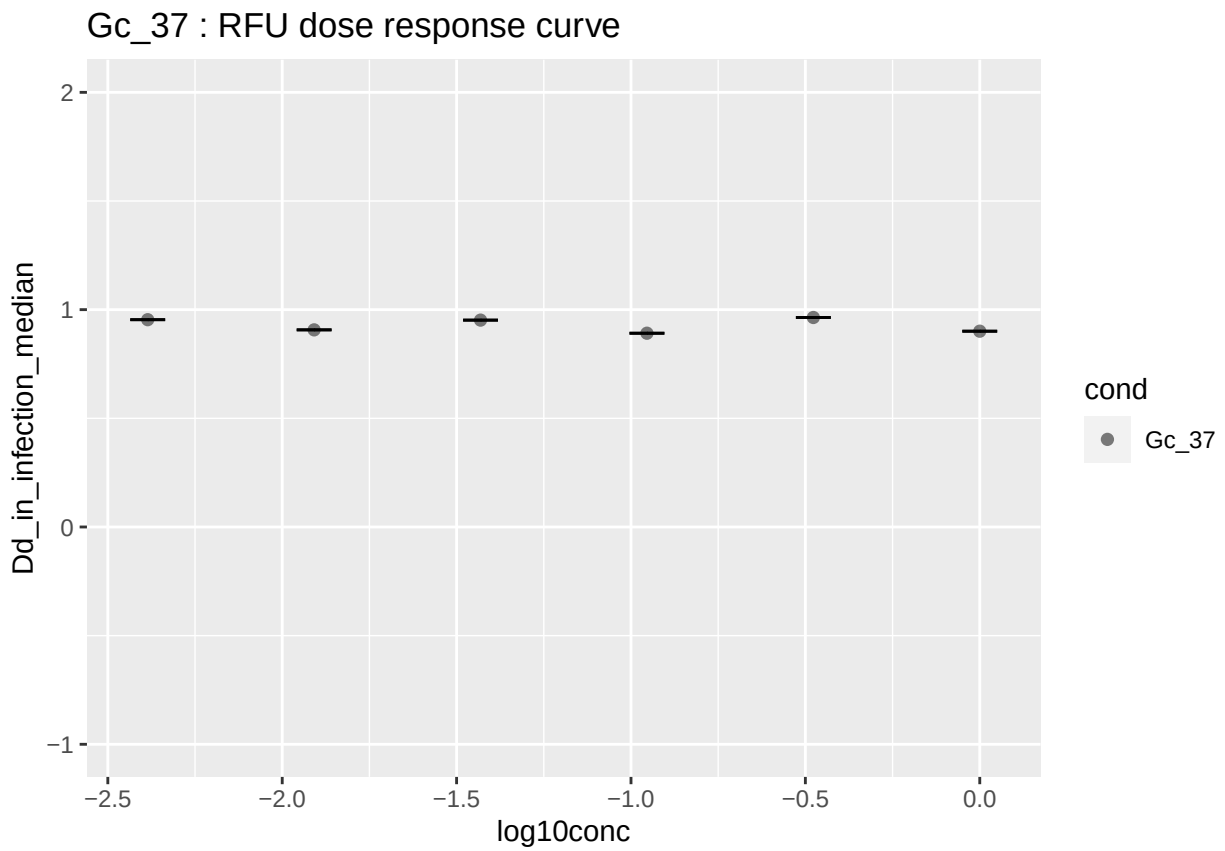

Gc_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

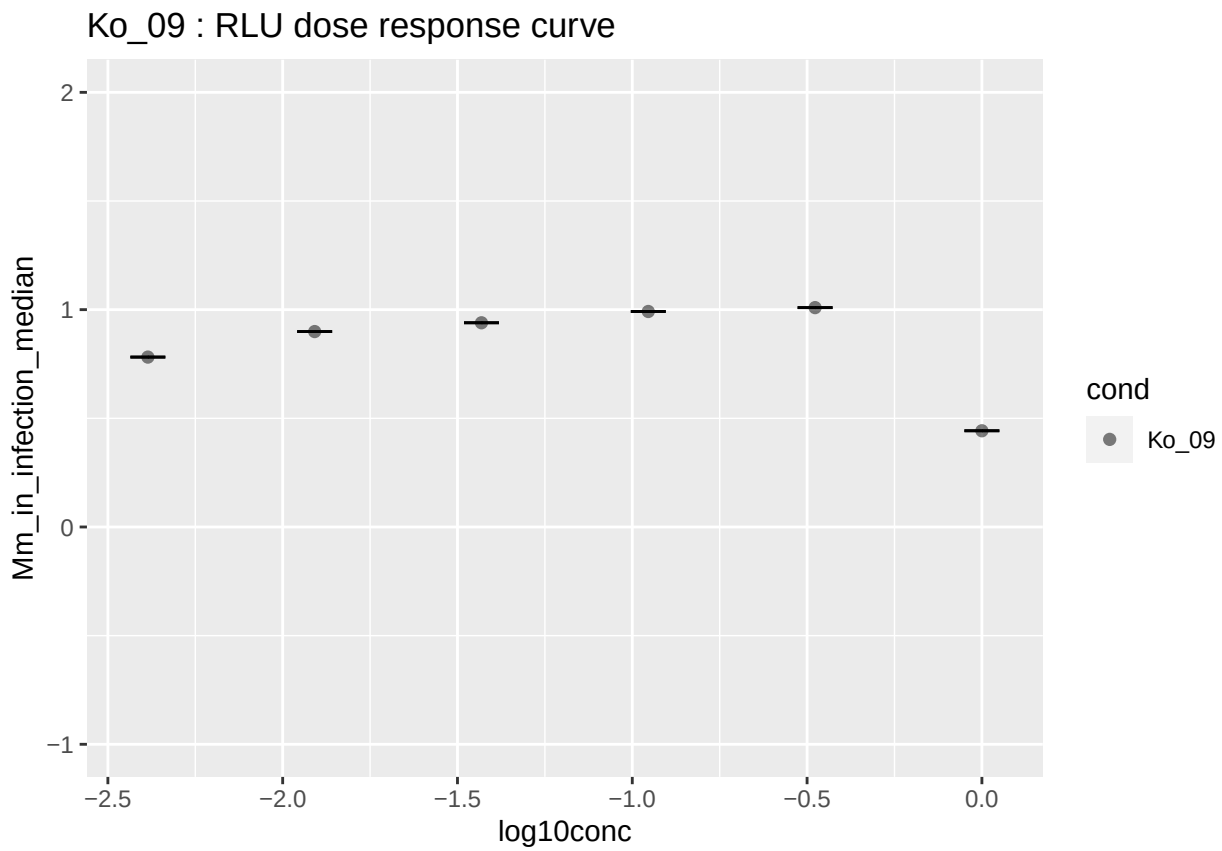

Gc_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

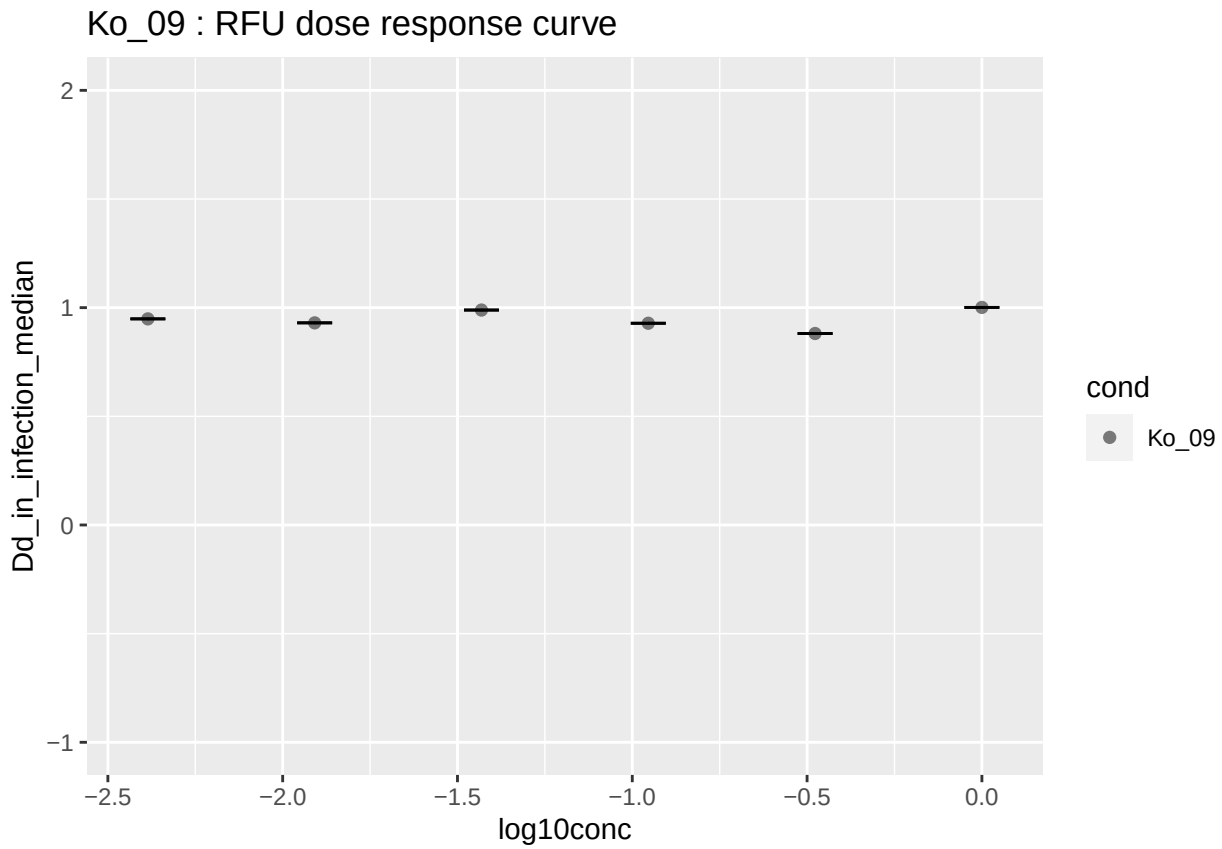

Gc_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

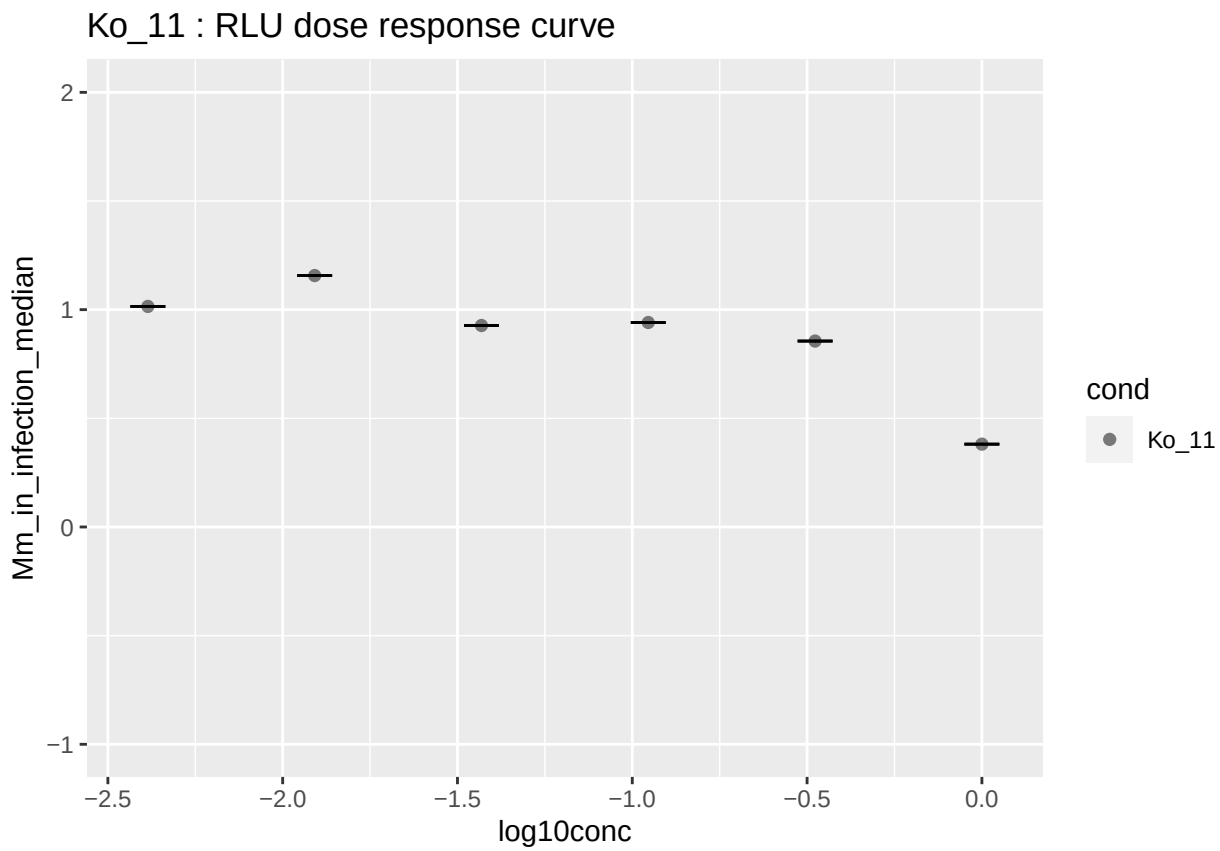

Gc_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

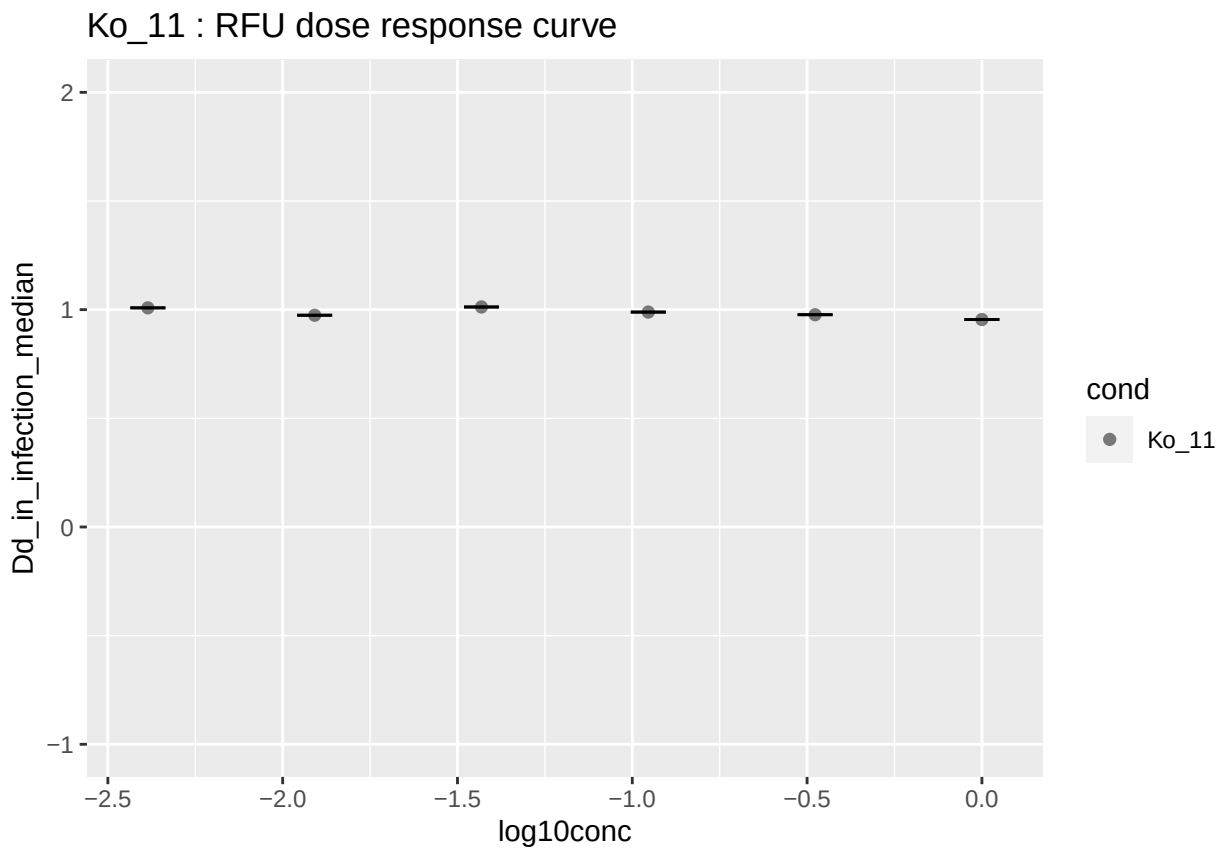

Gc_37 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

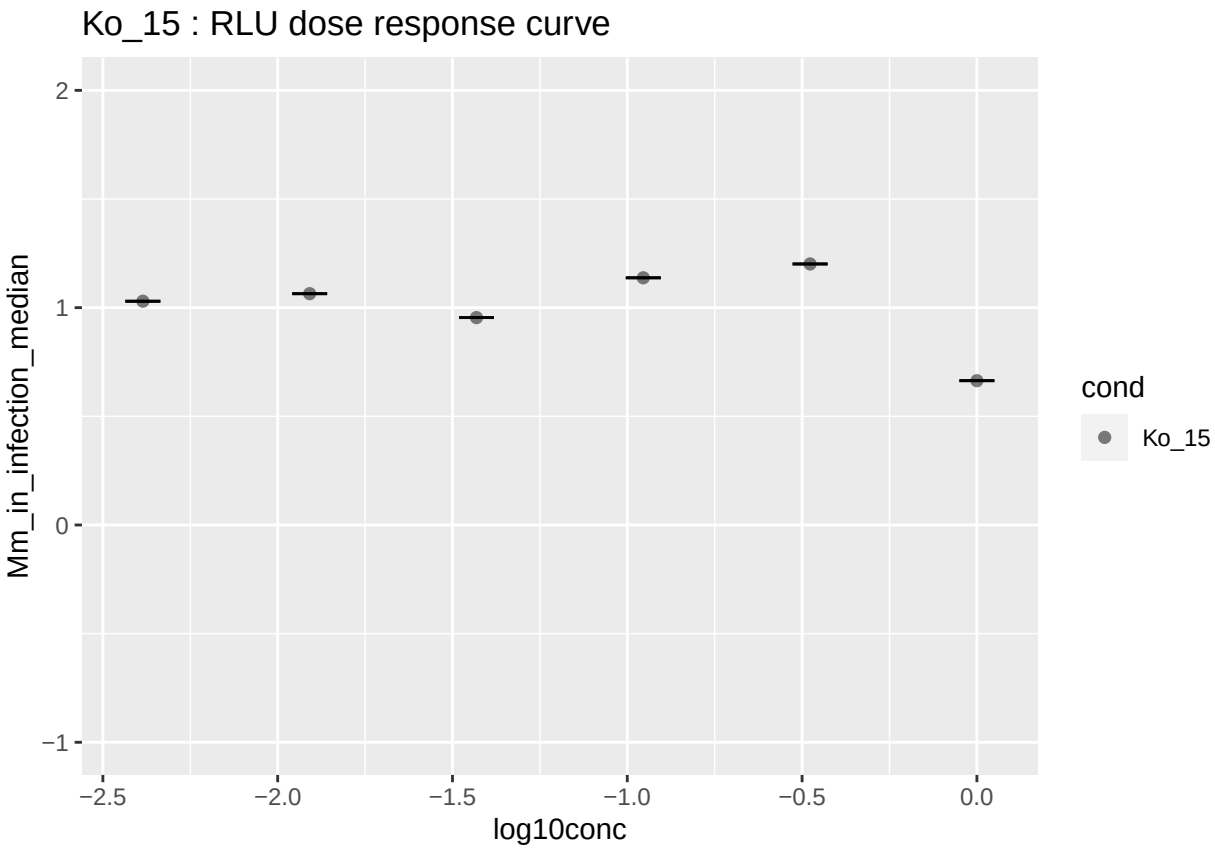

Gc_37 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

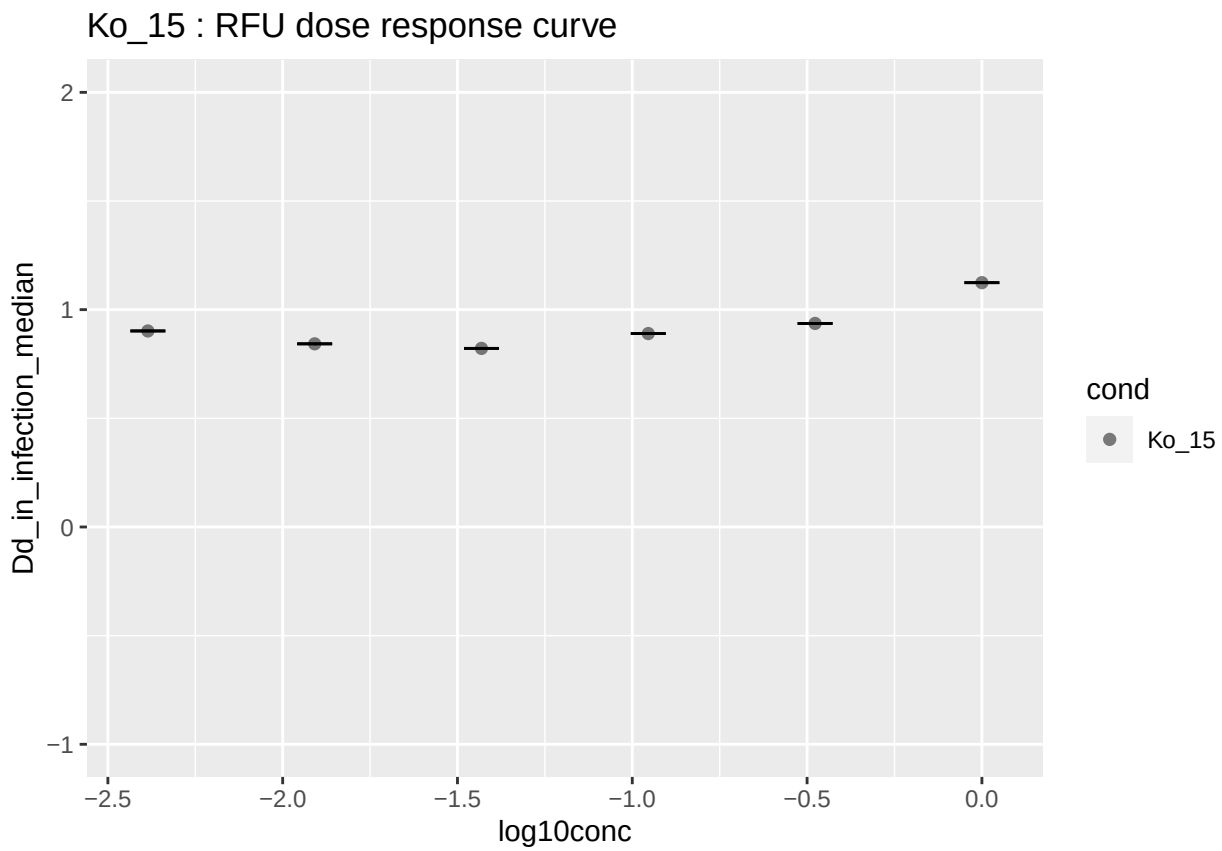

Ko_09 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

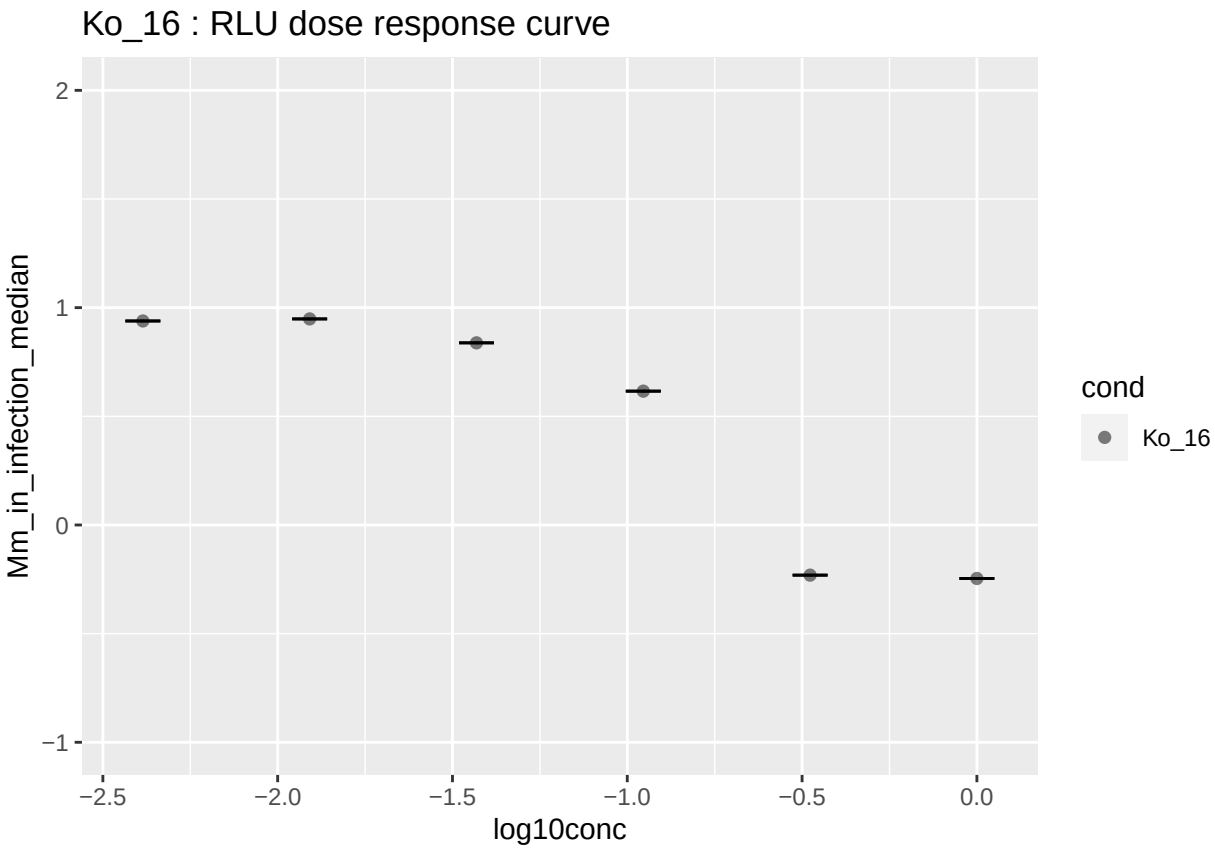

Ko_09 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

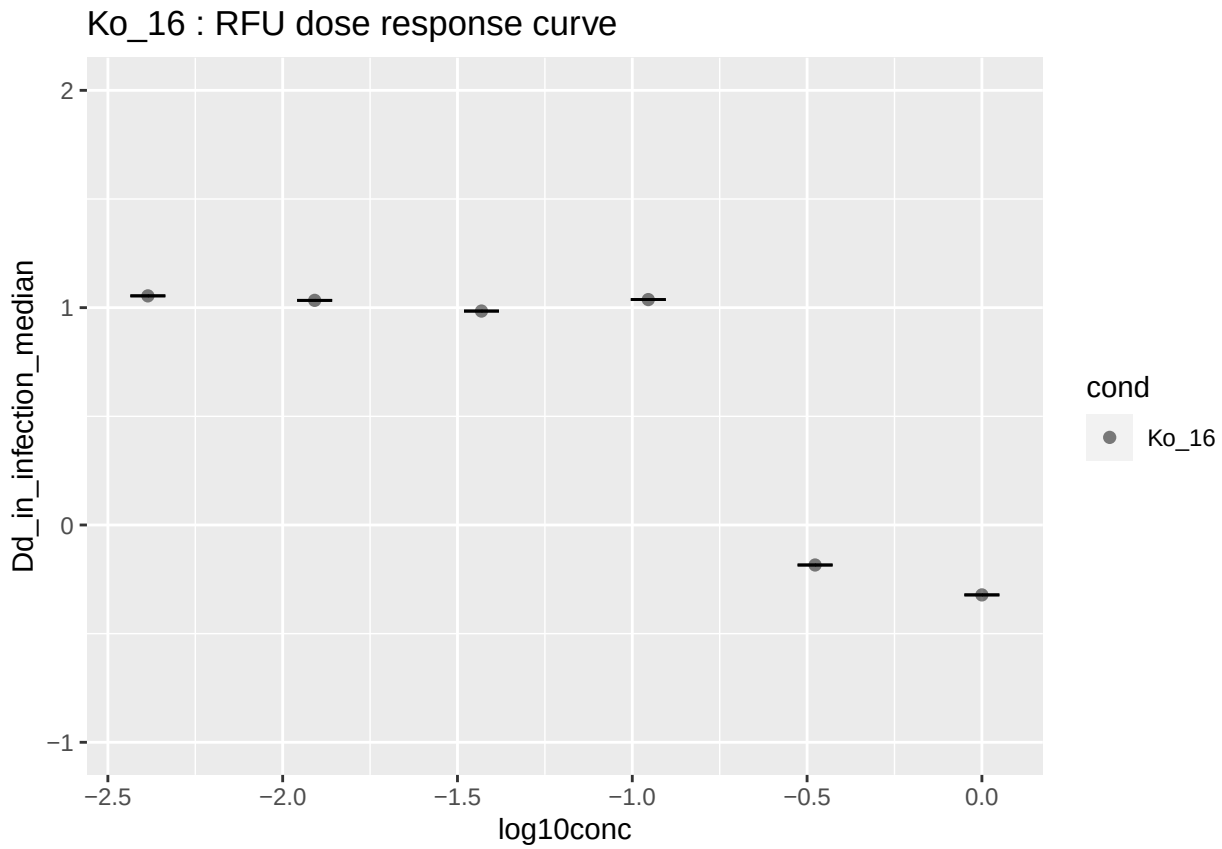

Ko_11 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

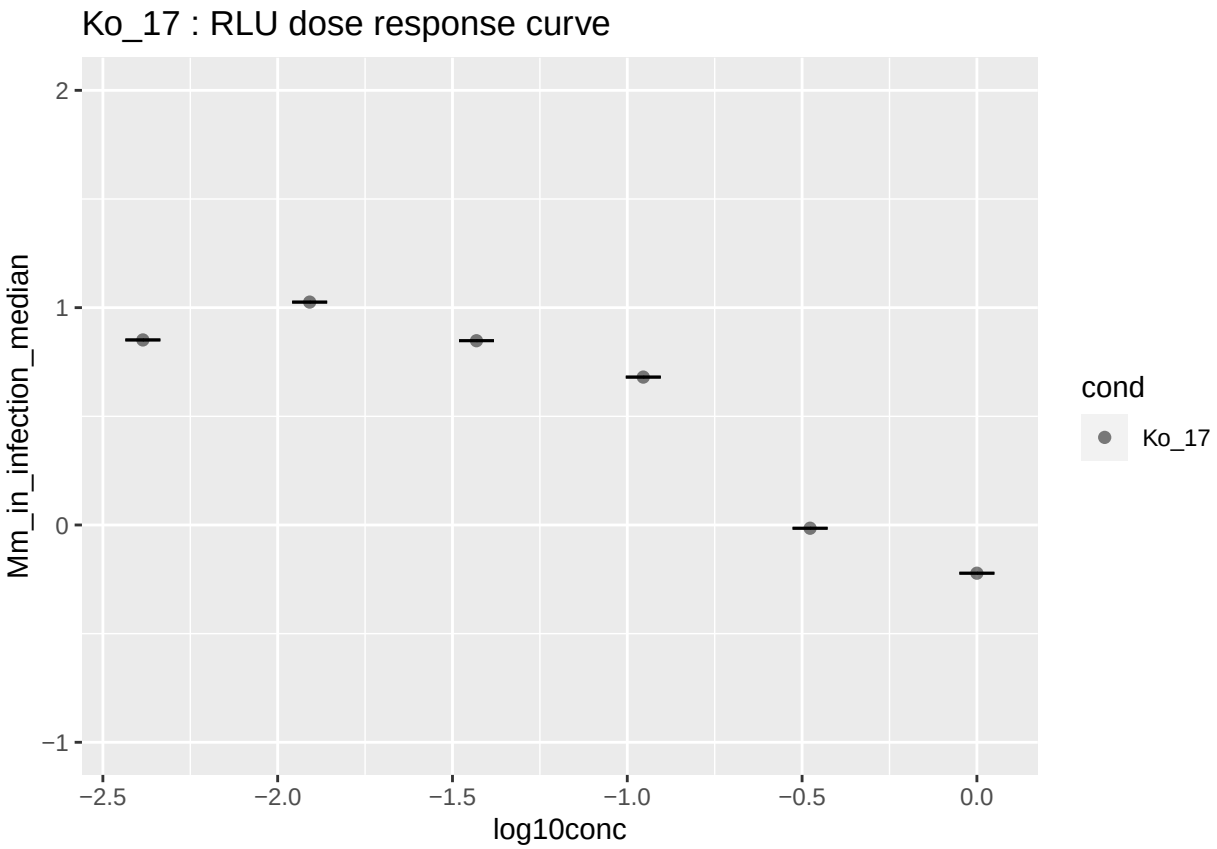

Ko_11 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

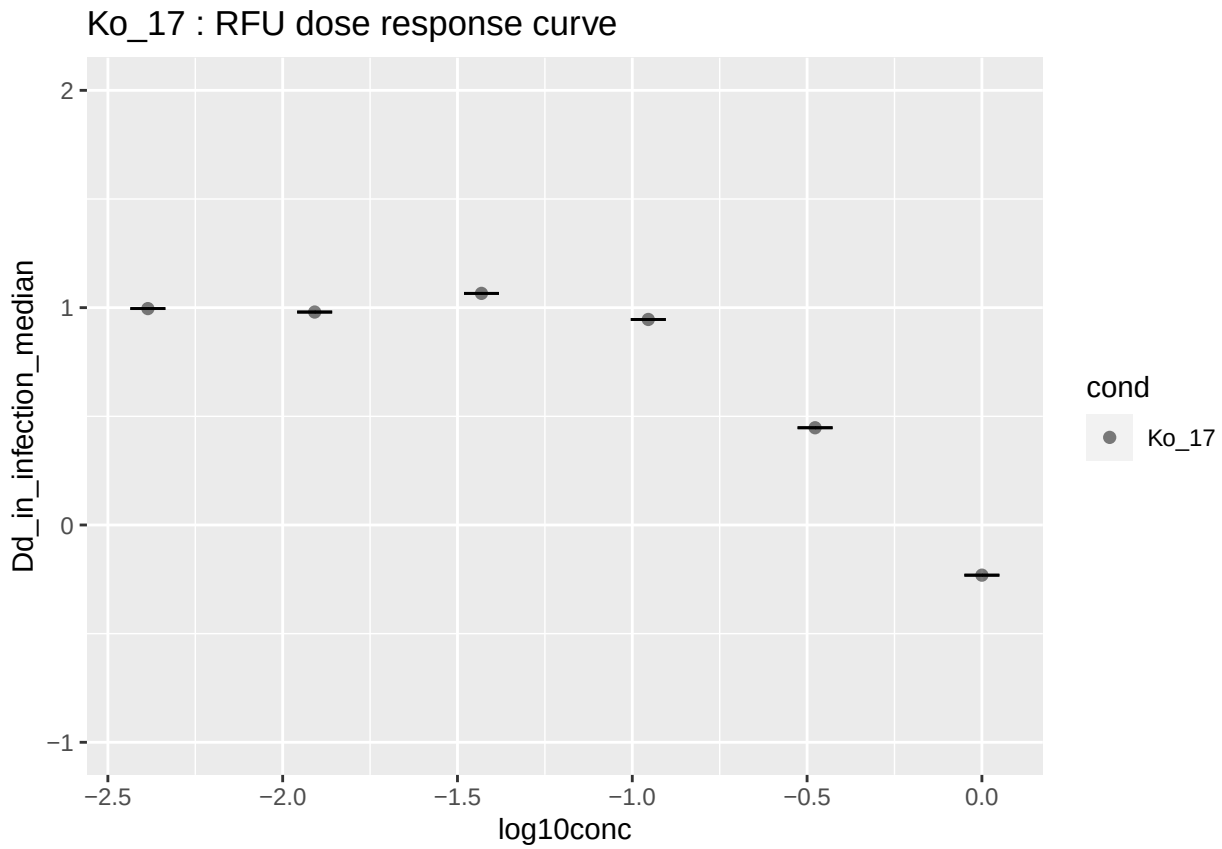

Ko_15 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

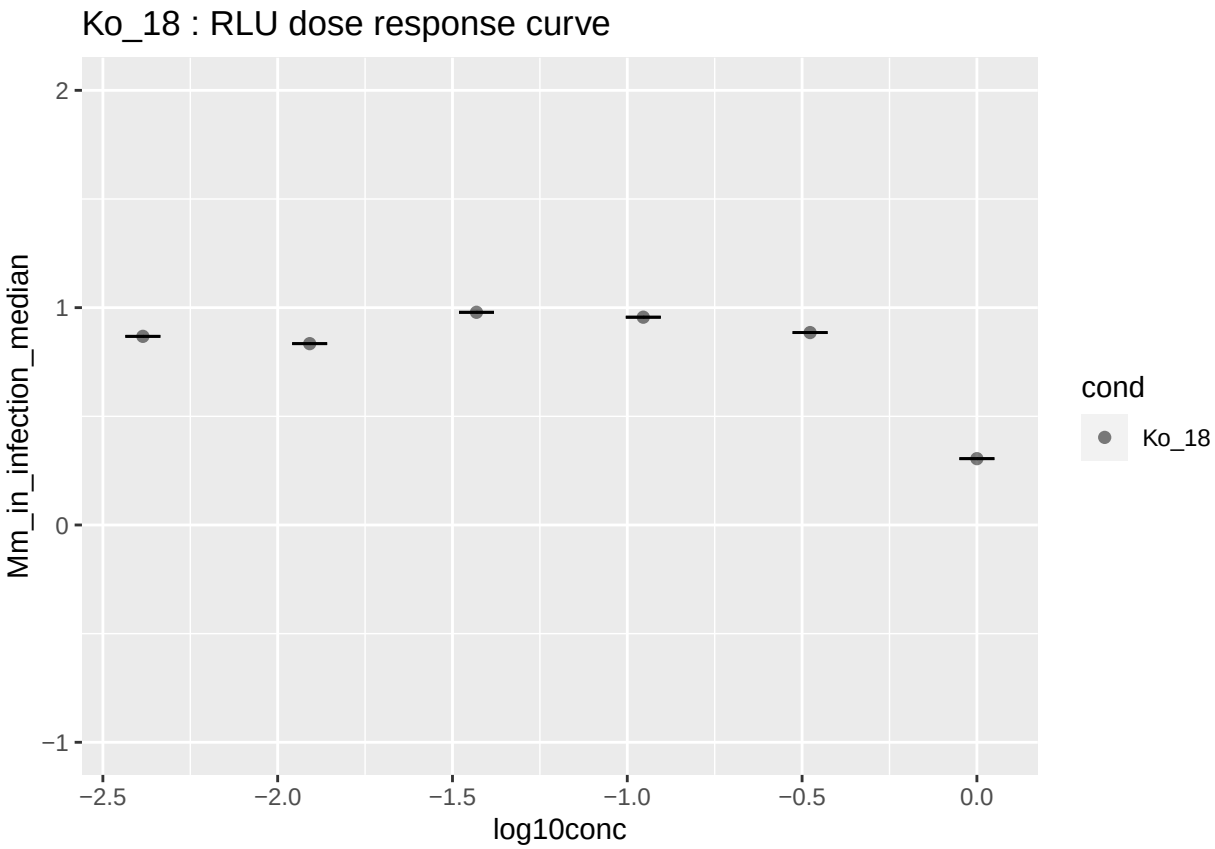

Ko_15 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

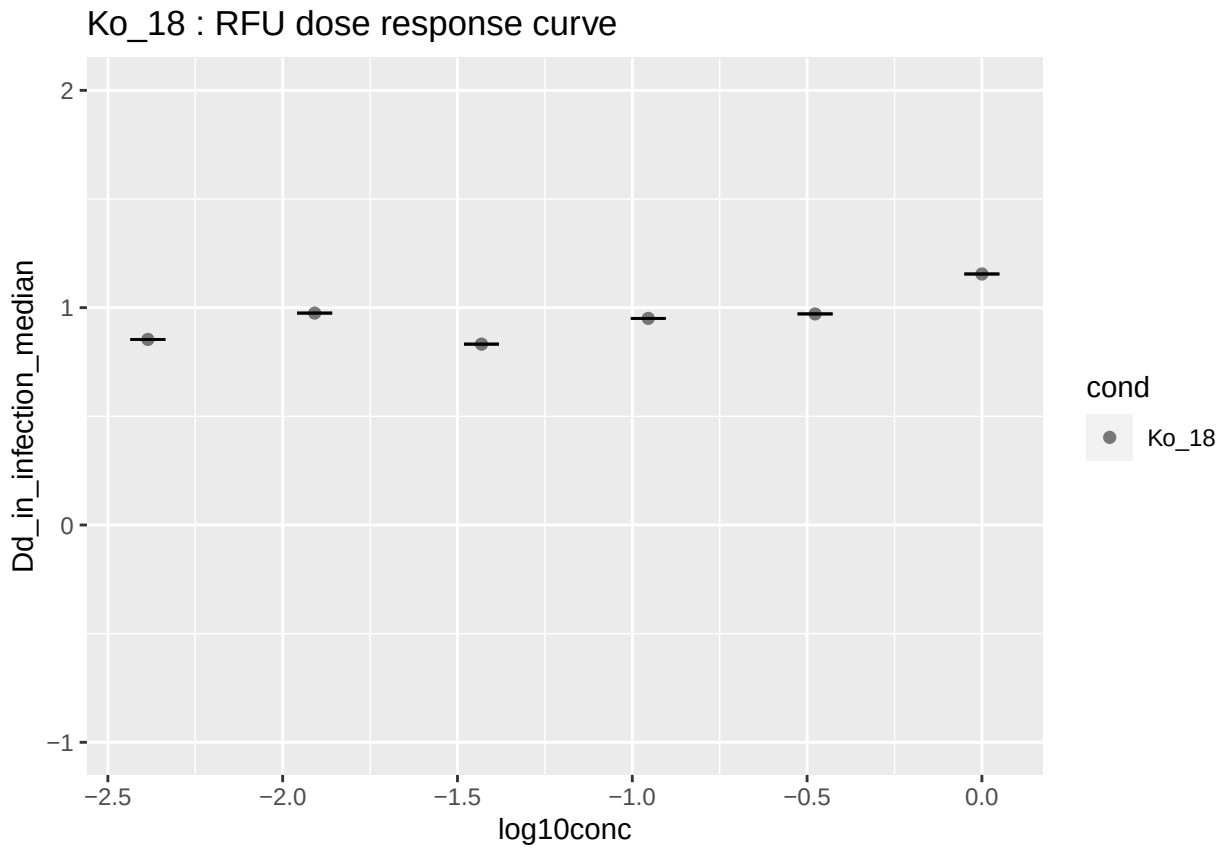

Ko_16 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

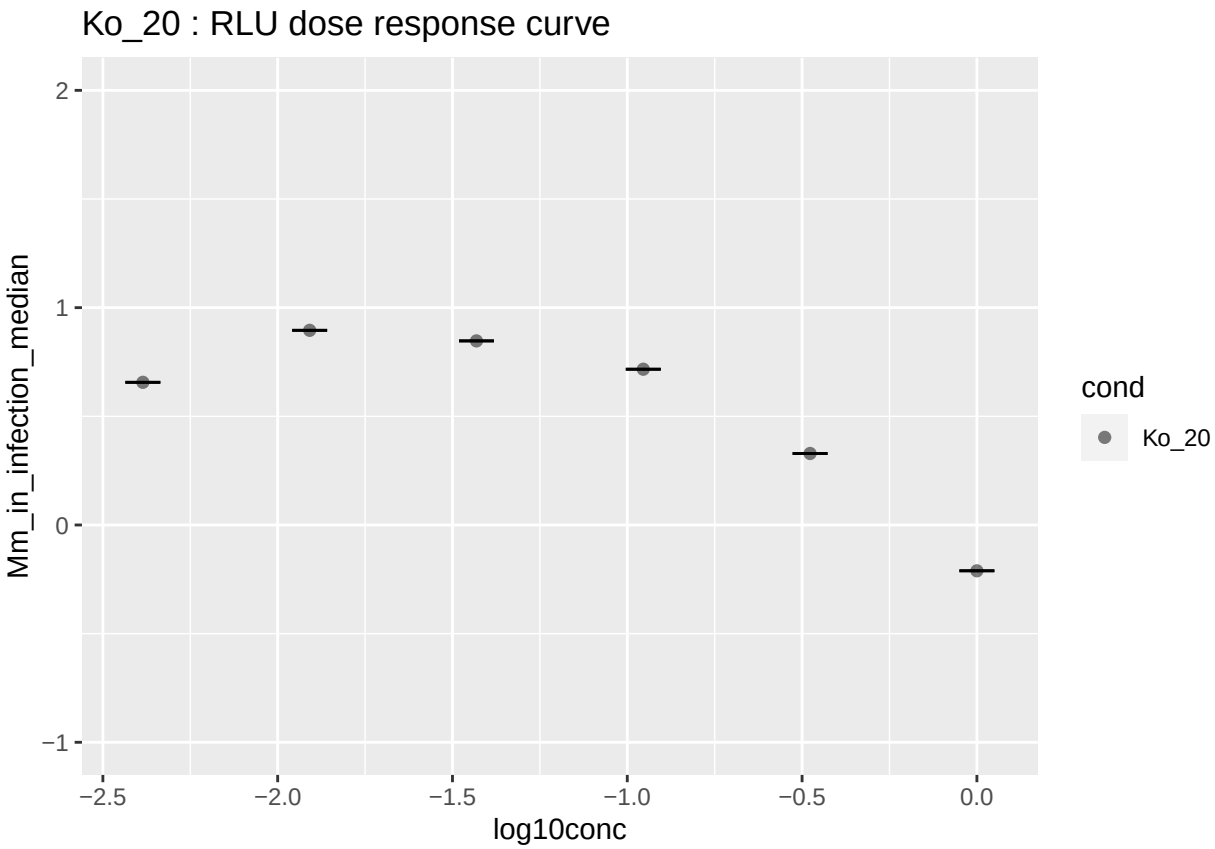

Ko_16 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

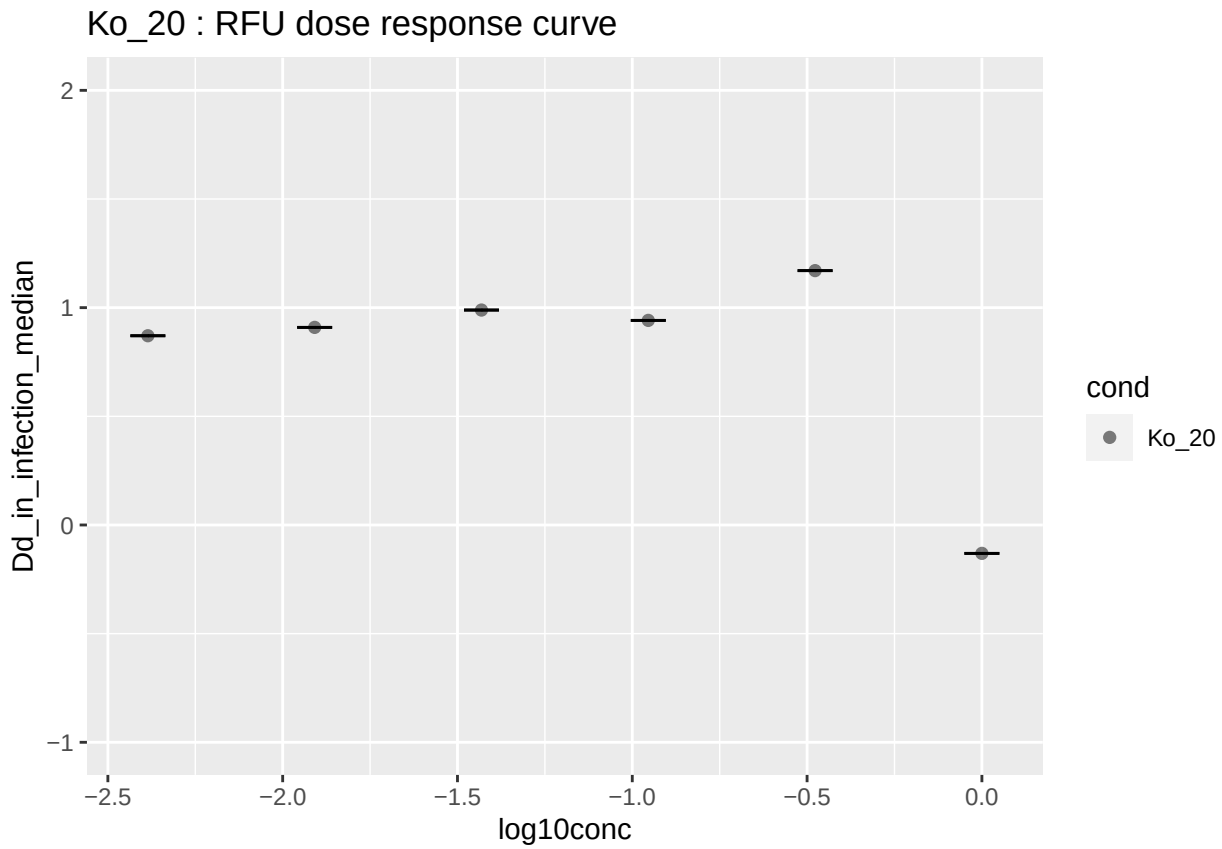

Ko_17 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

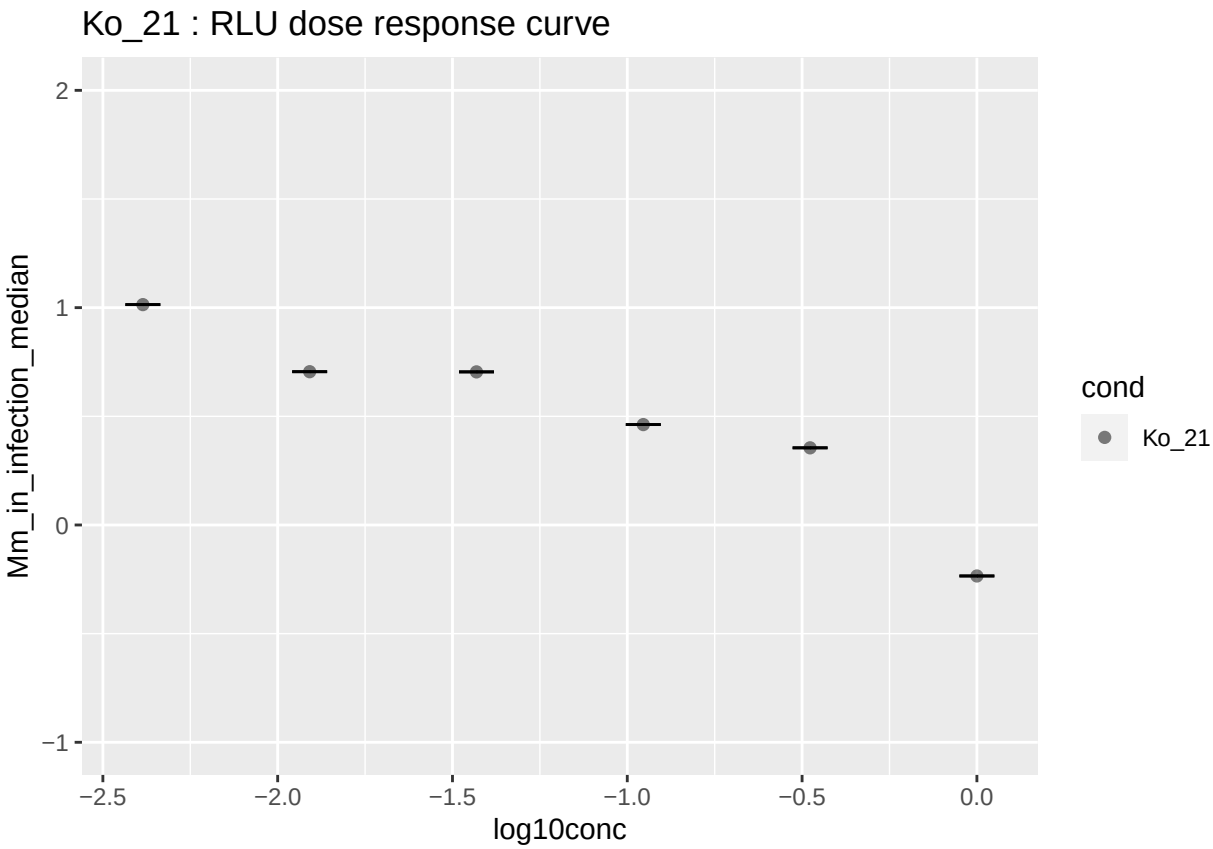

Ko_17 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

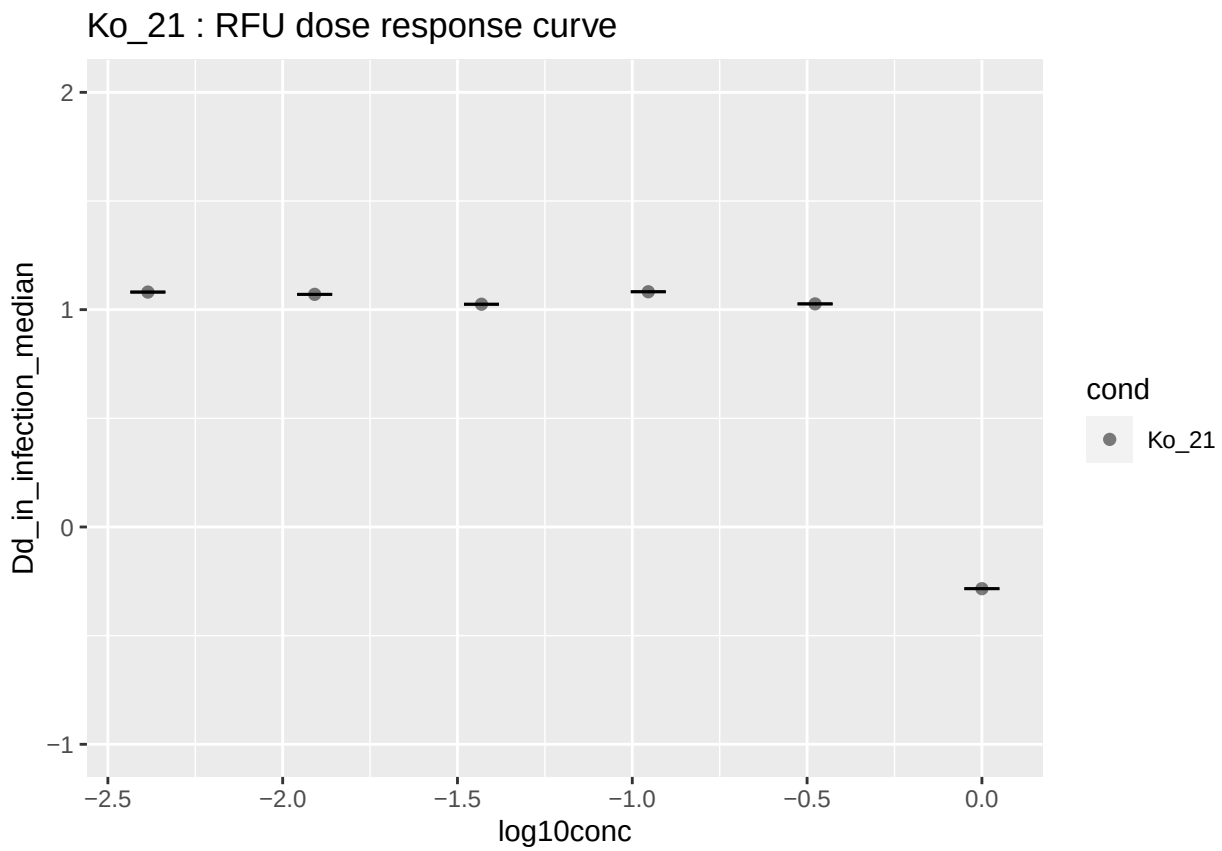

Ko_18 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

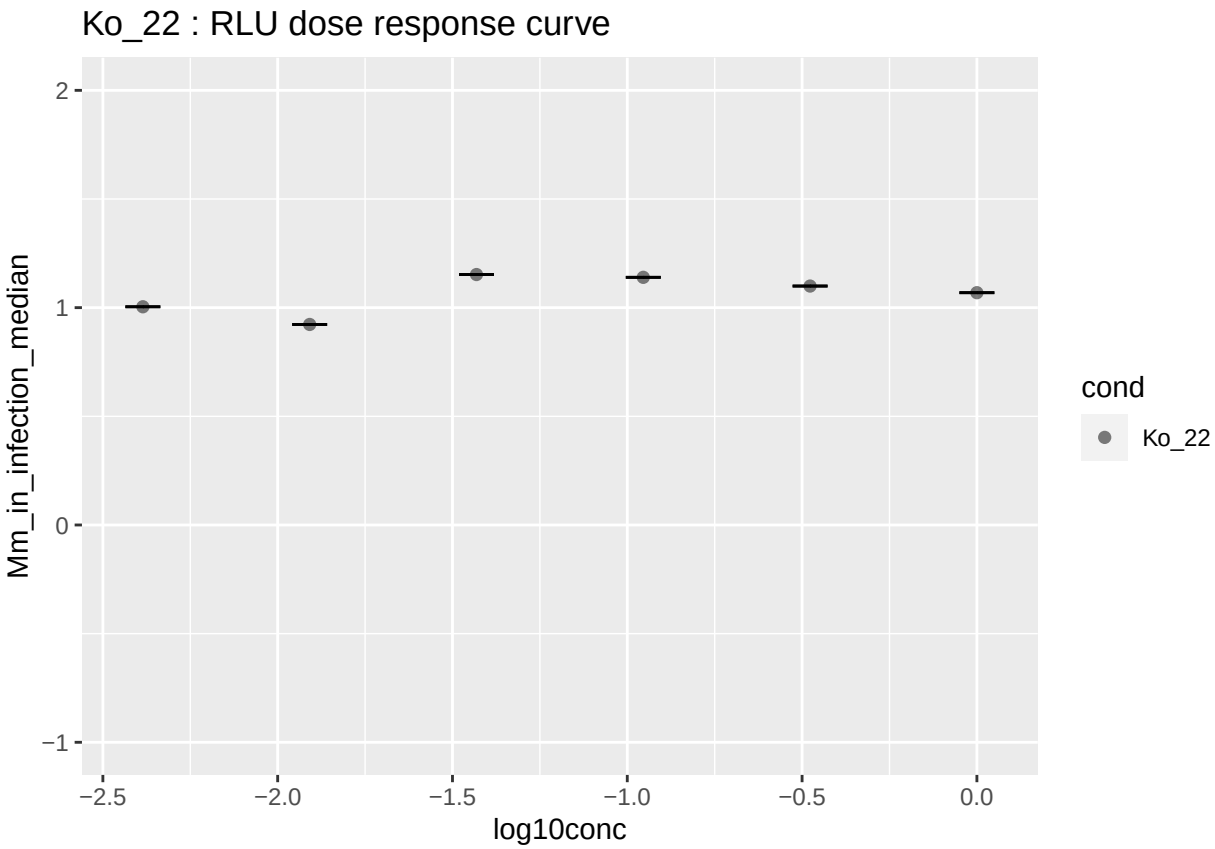

Ko_18 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

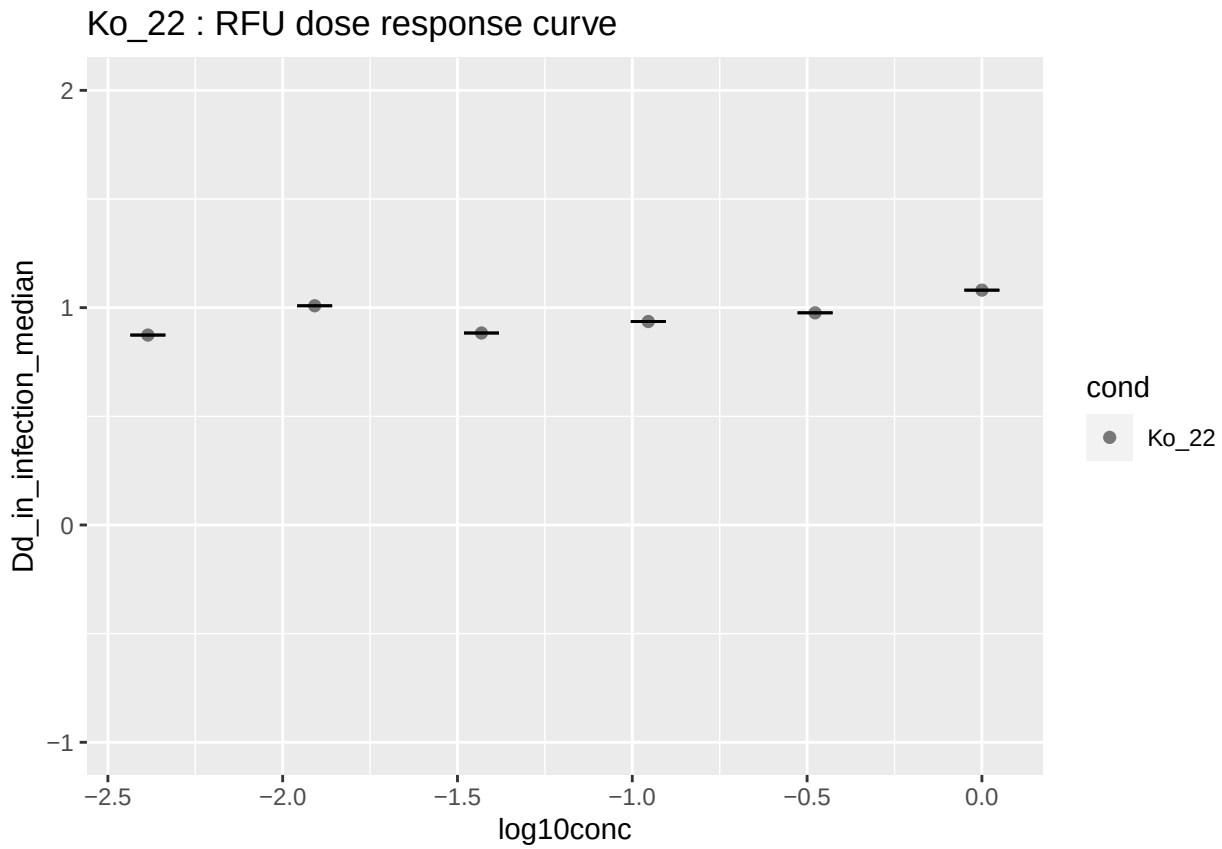

Ko_20 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

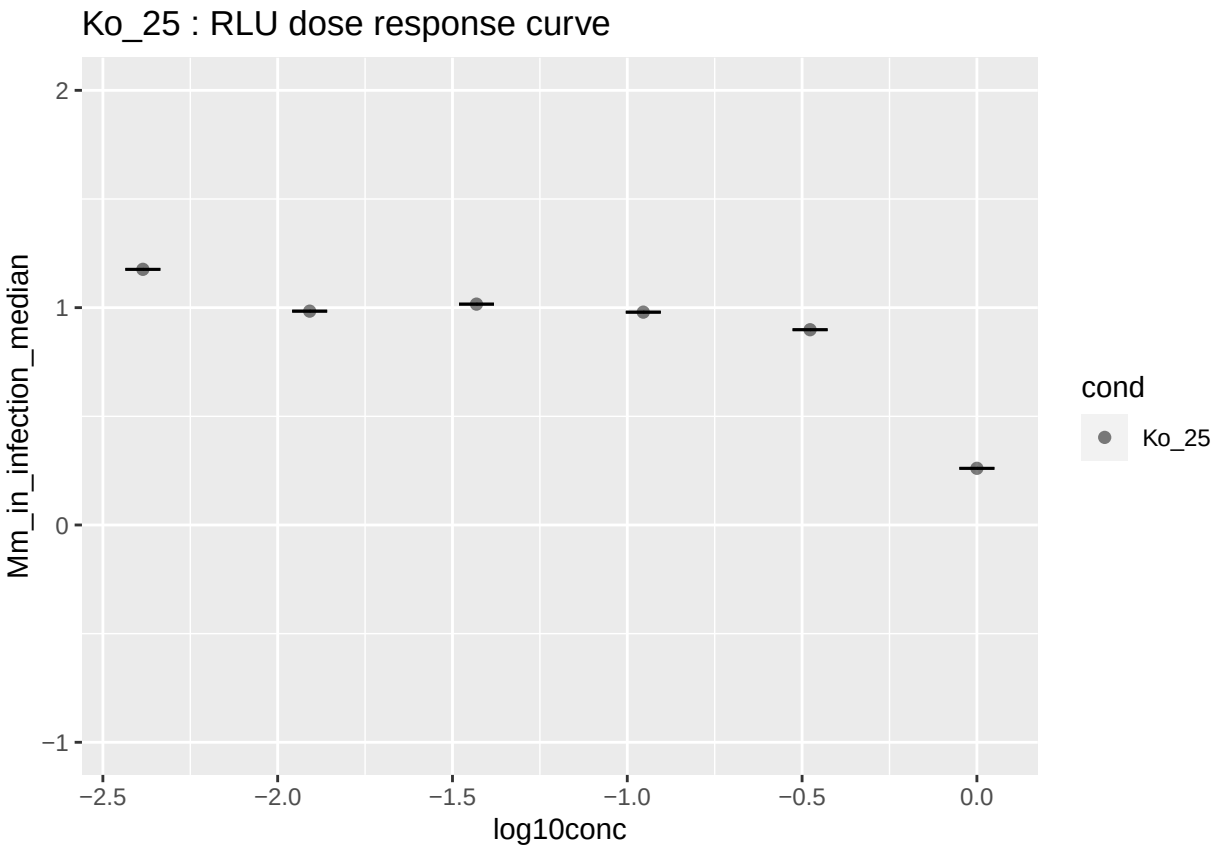

Ko_20 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

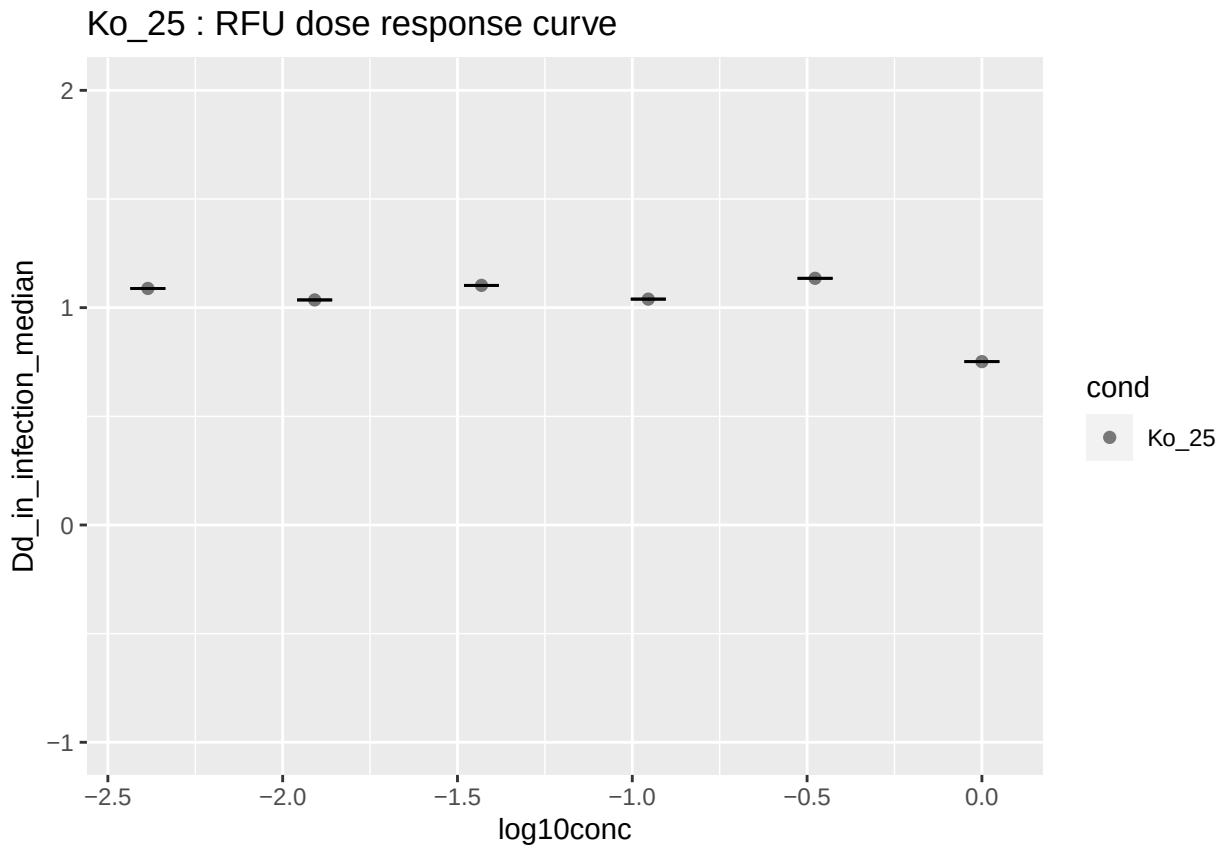

Ko_21 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

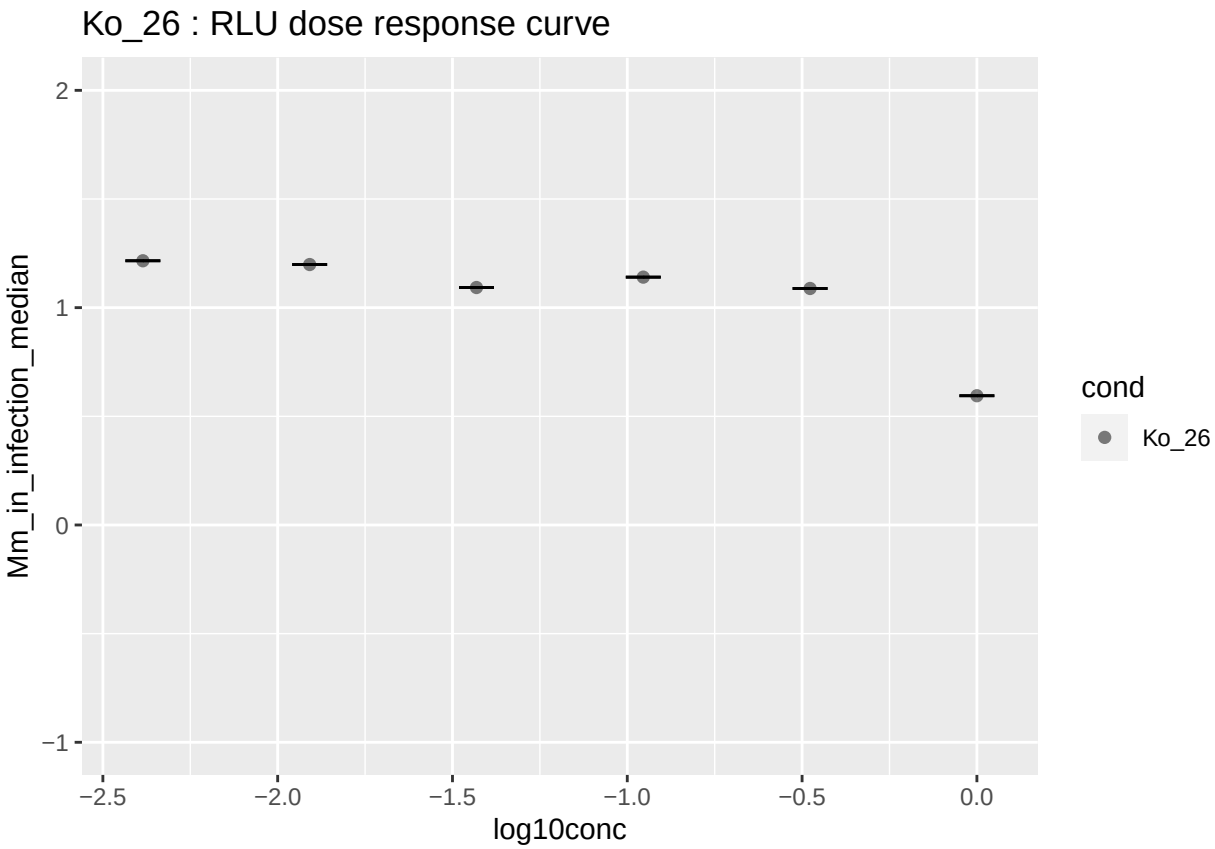

Ko_21 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

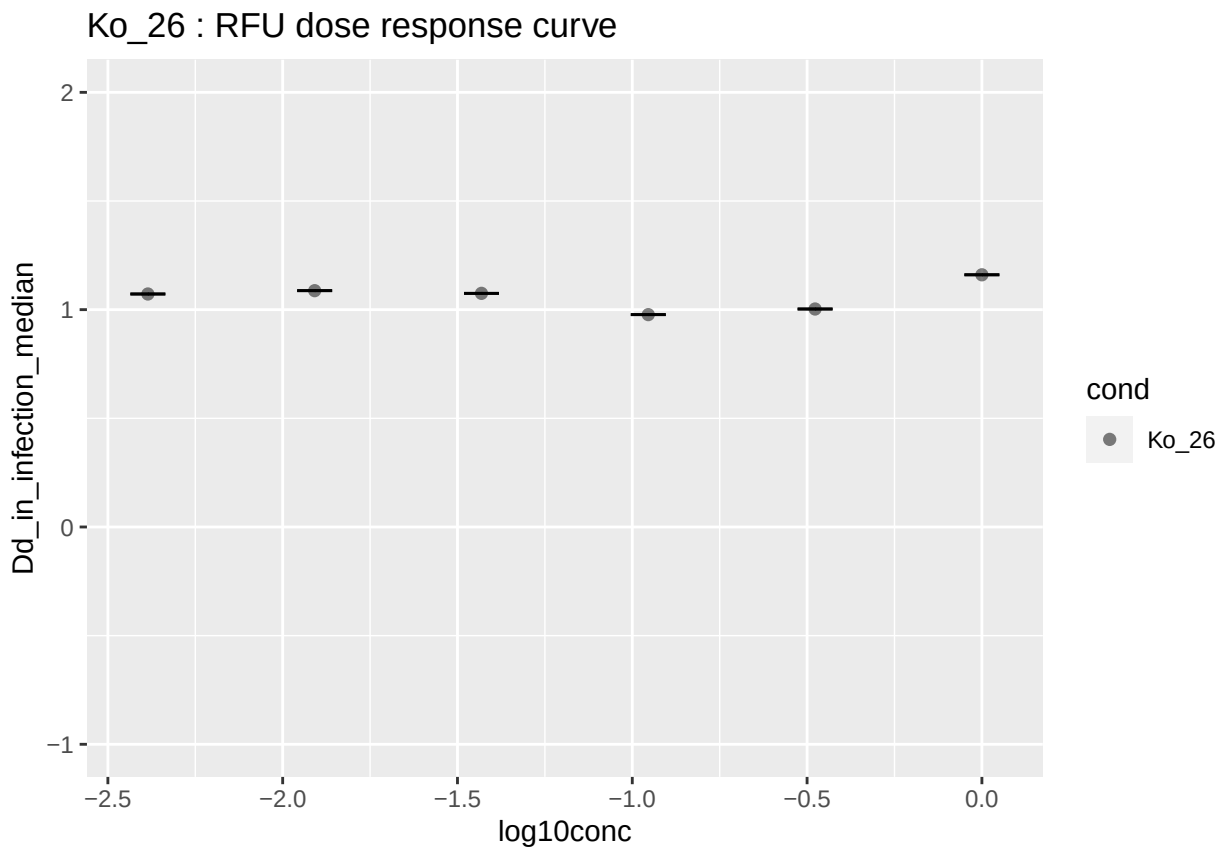

Ko_22 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

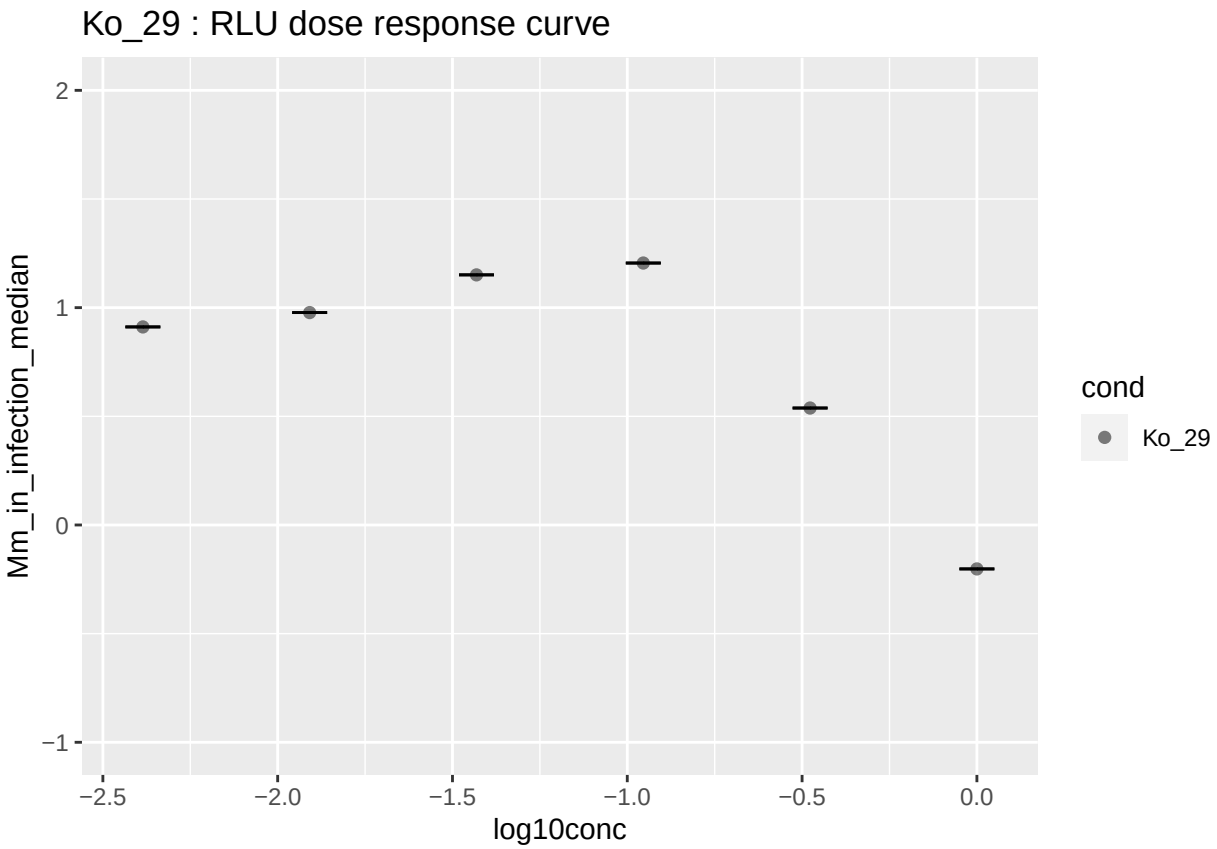

Ko_22 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

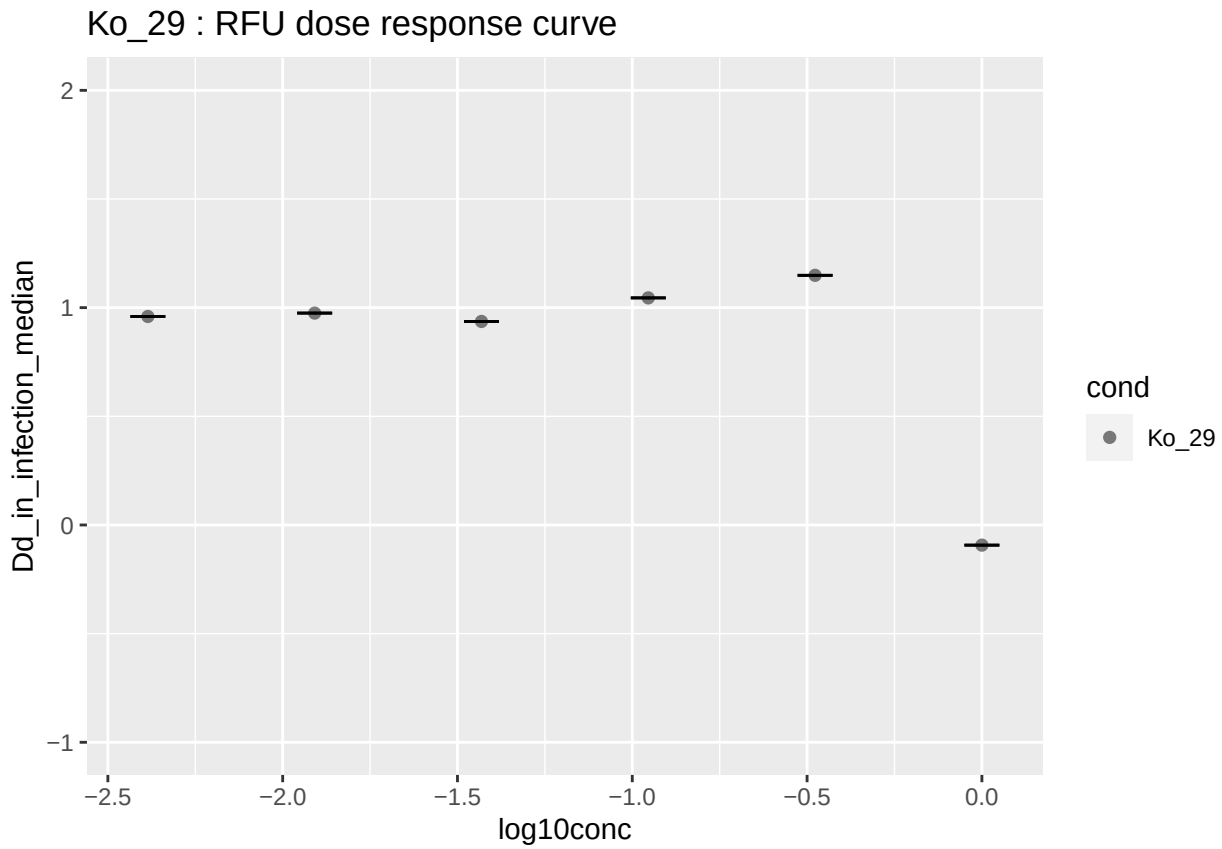

Ko_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

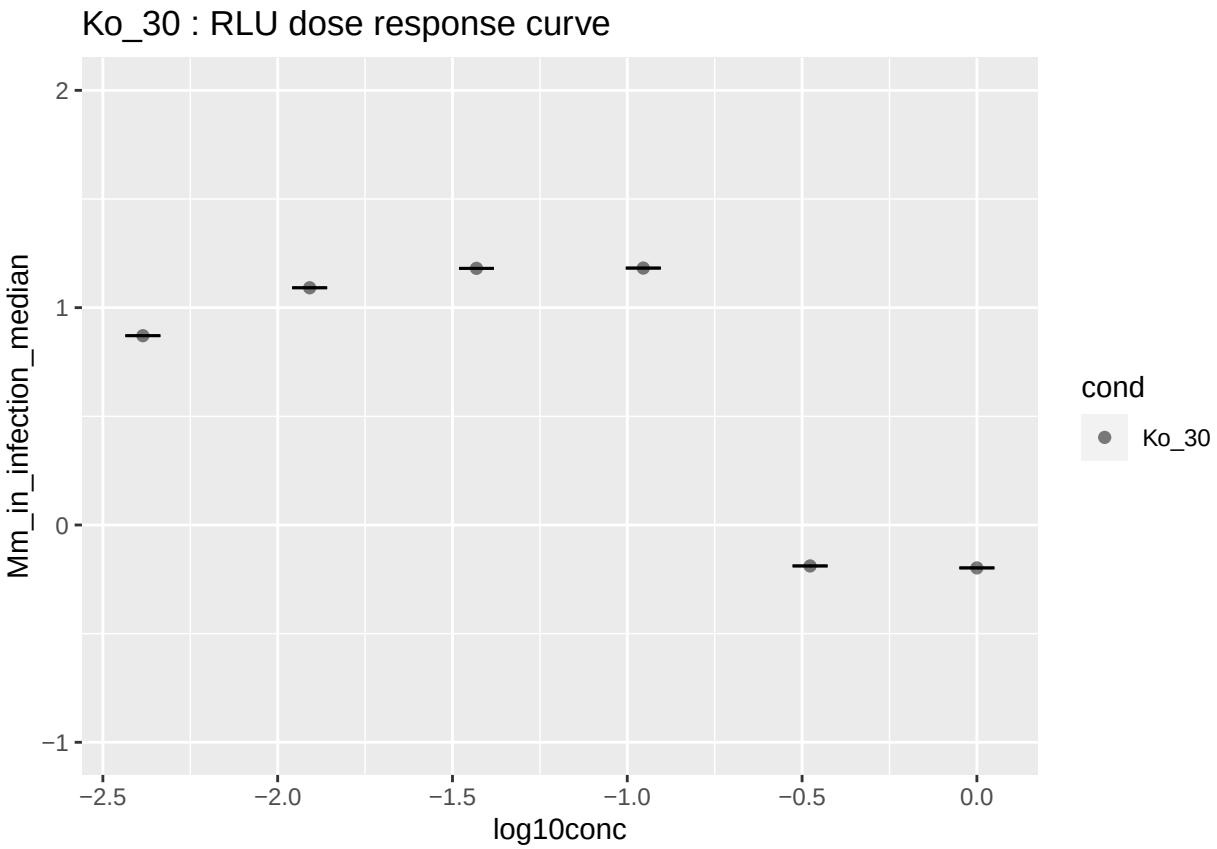

Ko_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

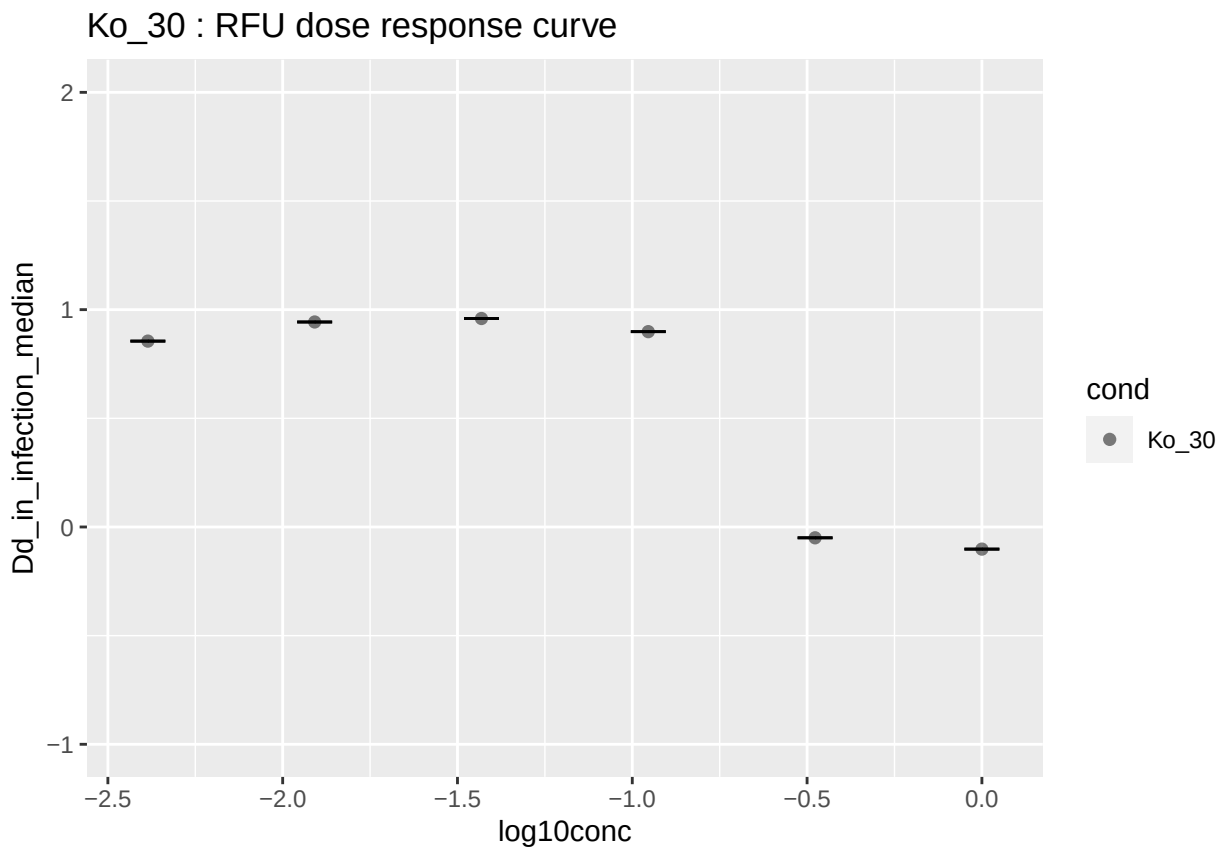

Ko_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

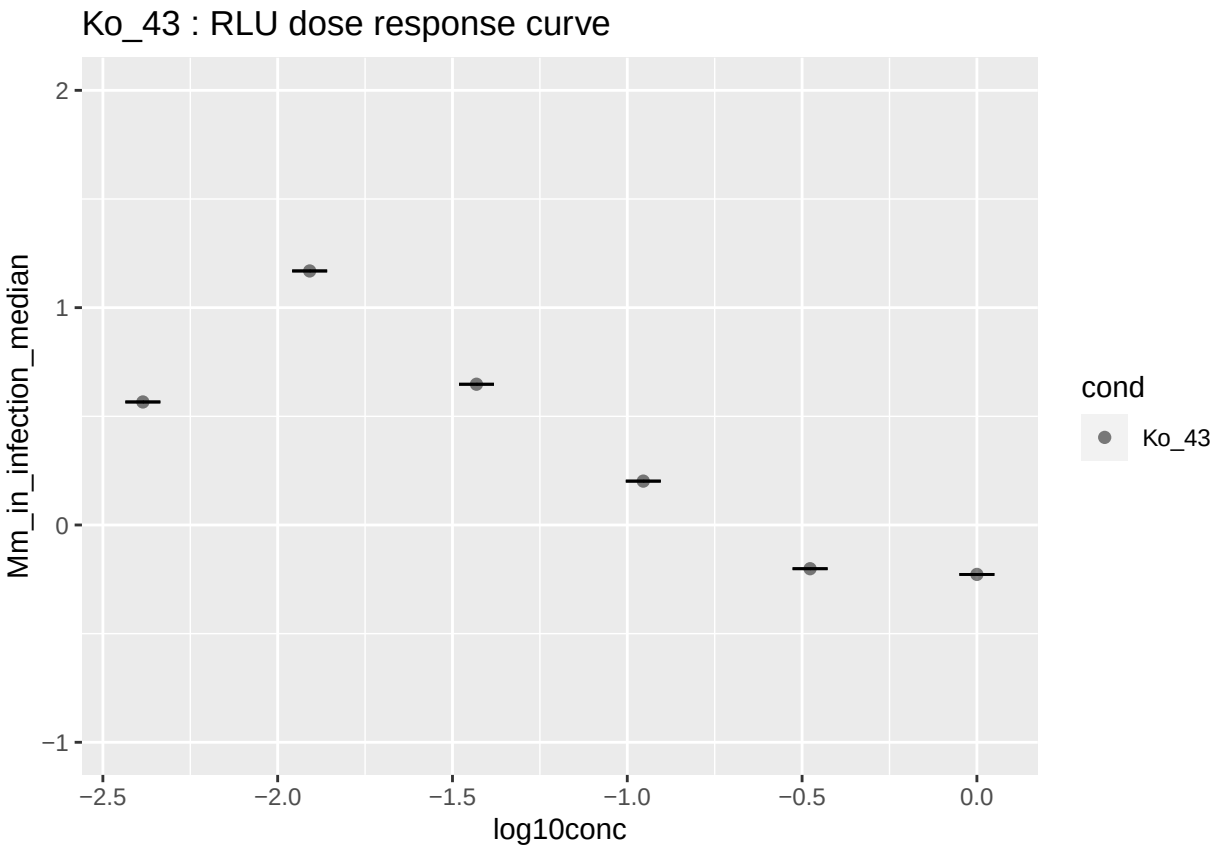

Ko_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

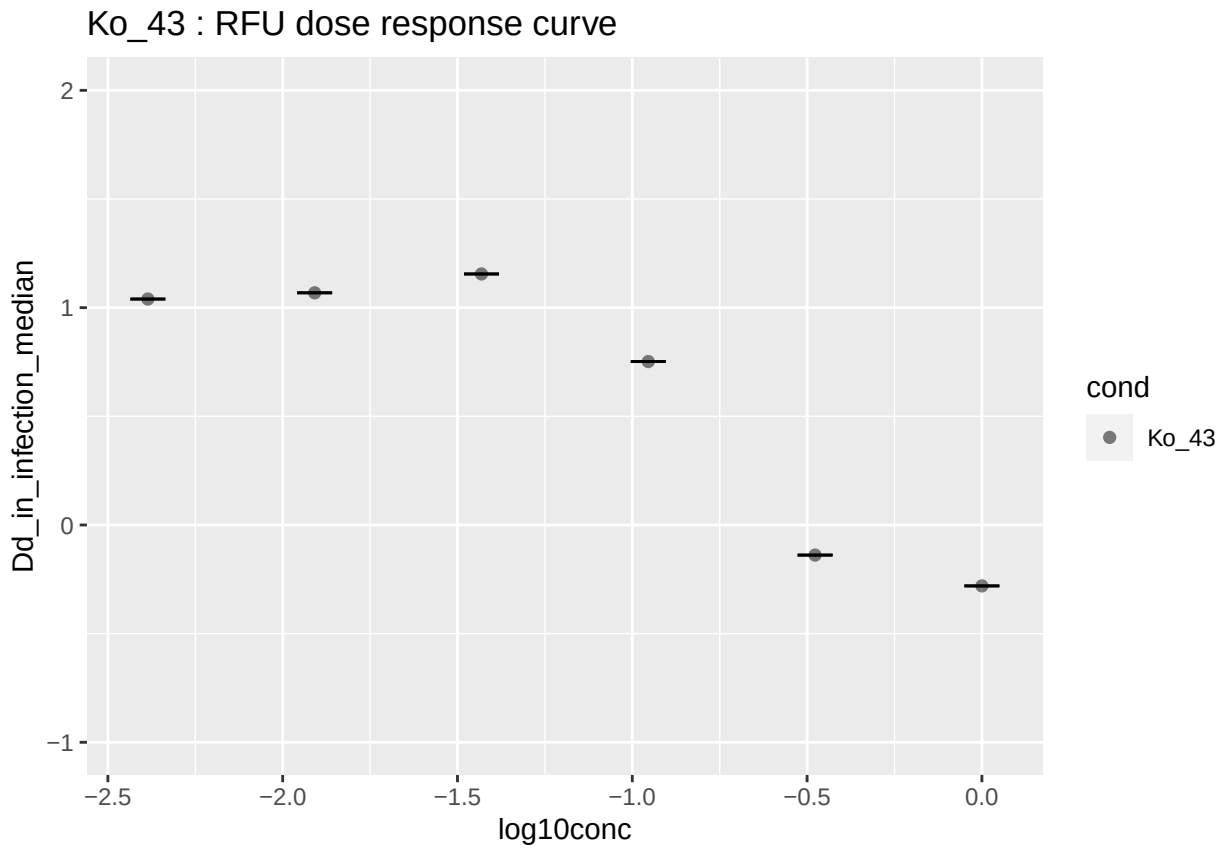

Ko_29 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

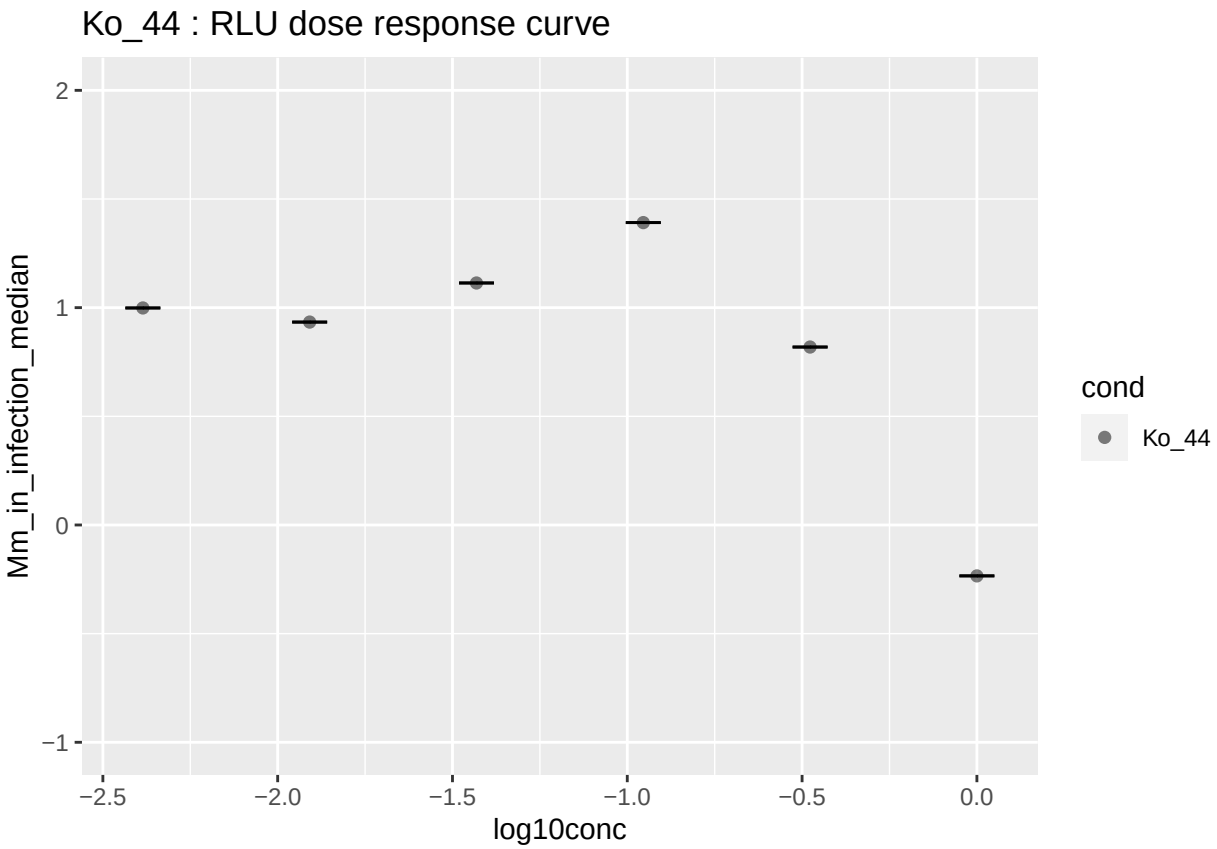

Ko_29 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

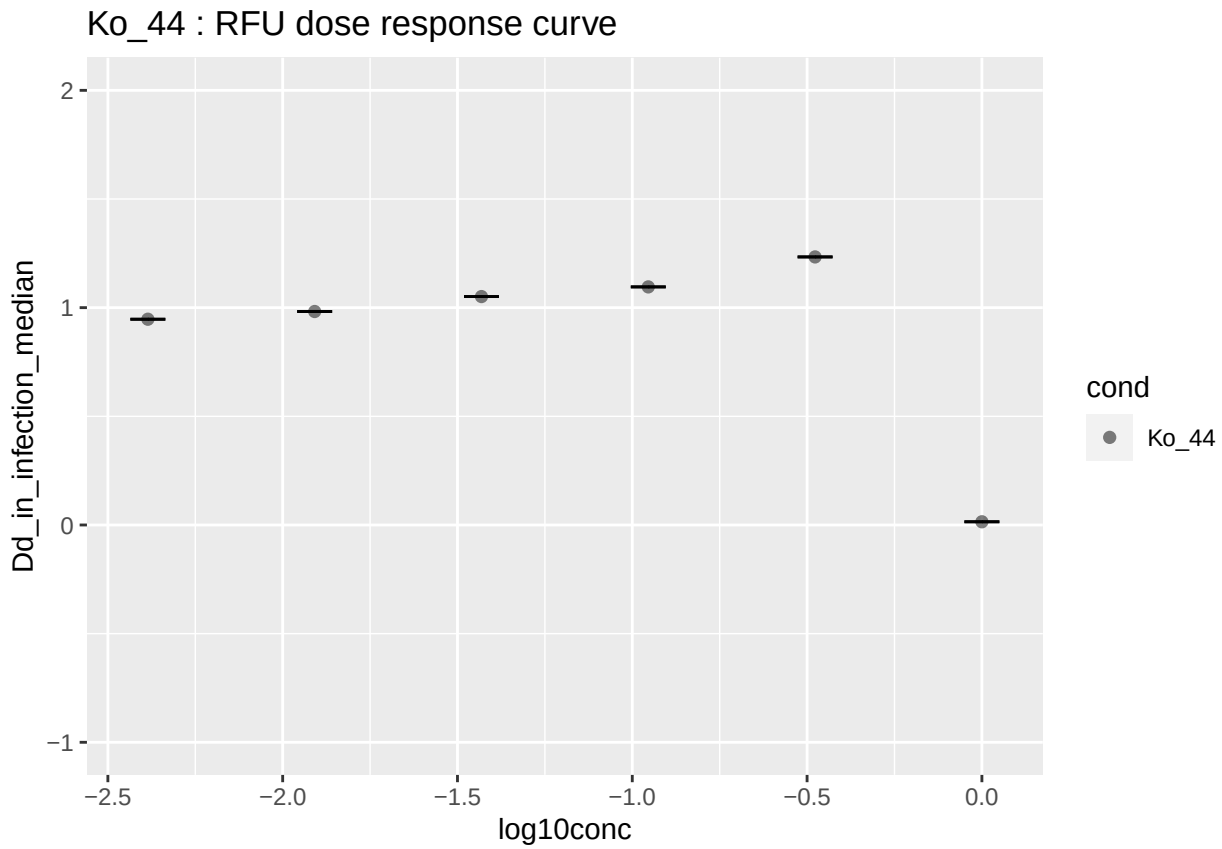

Ko_30 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

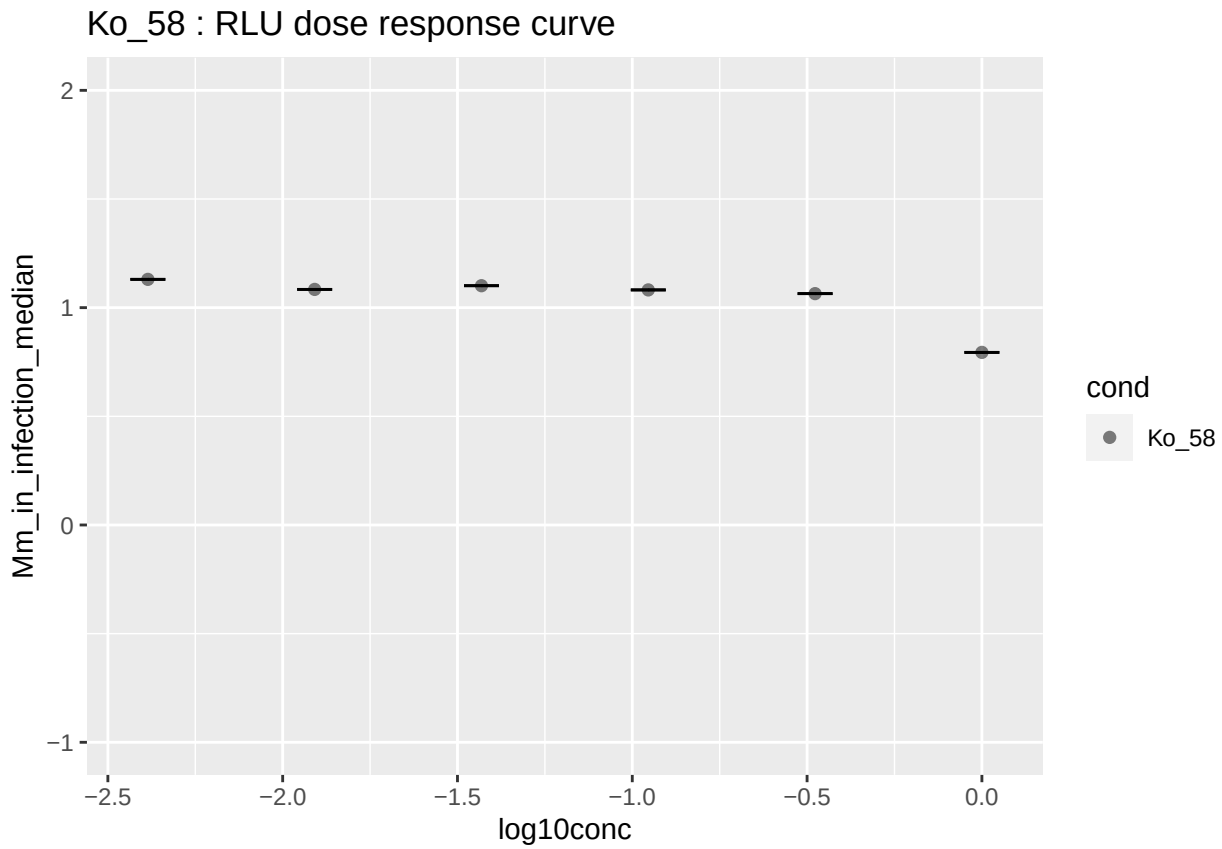

Ko_30 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

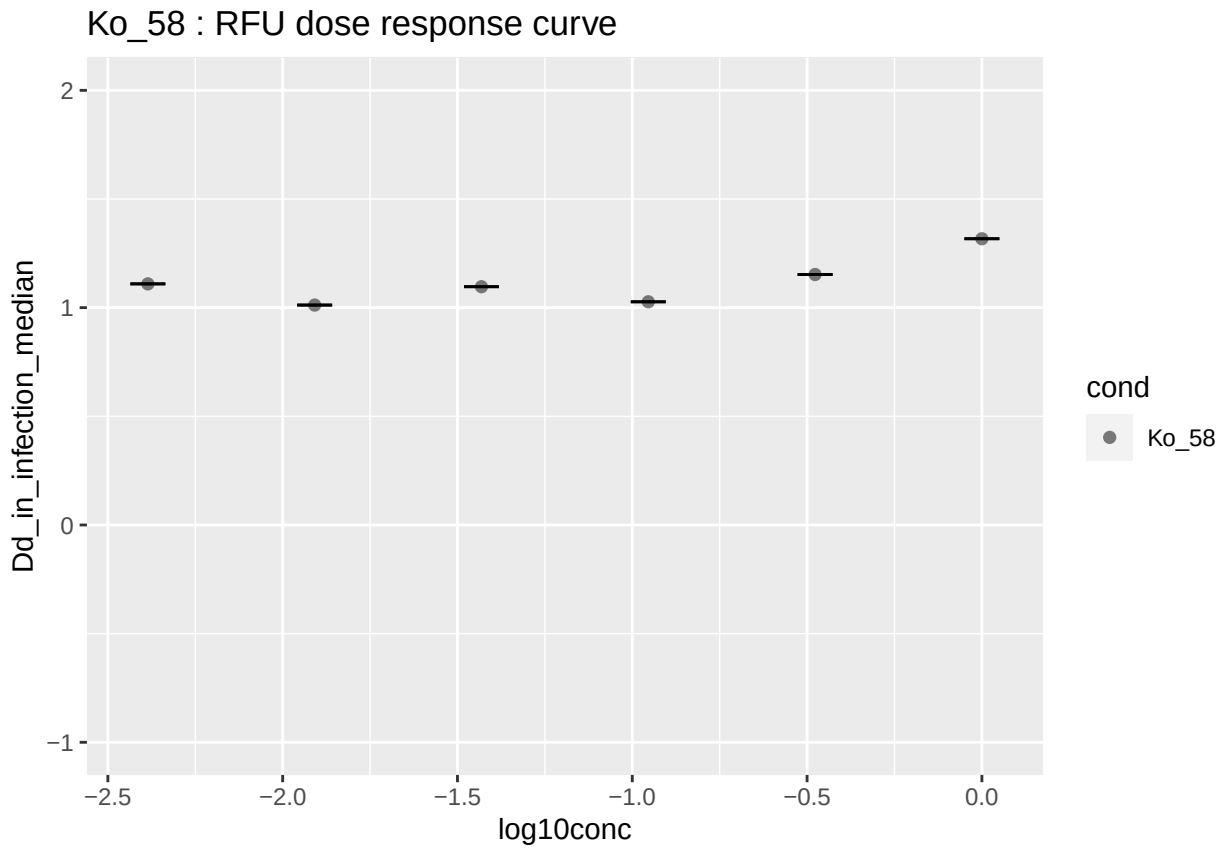

Ko_43 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

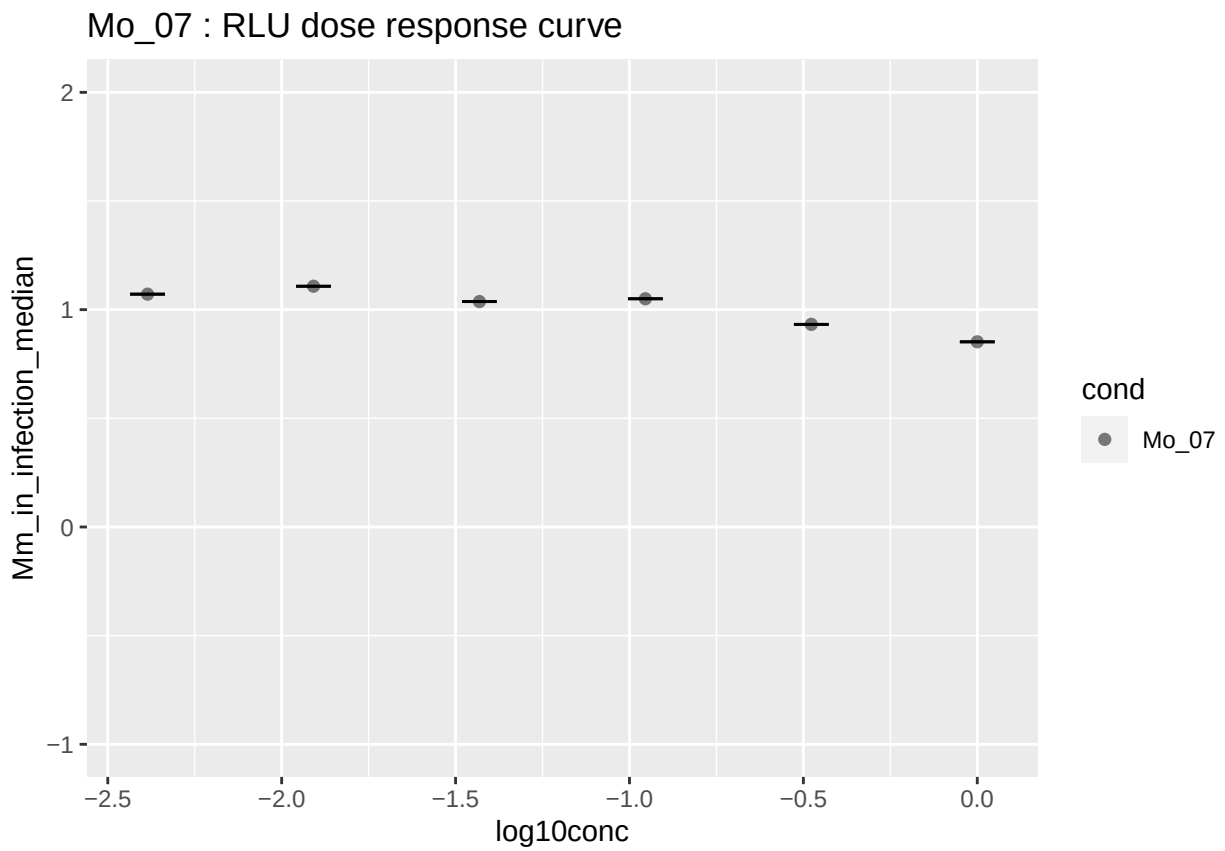

Ko_43 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

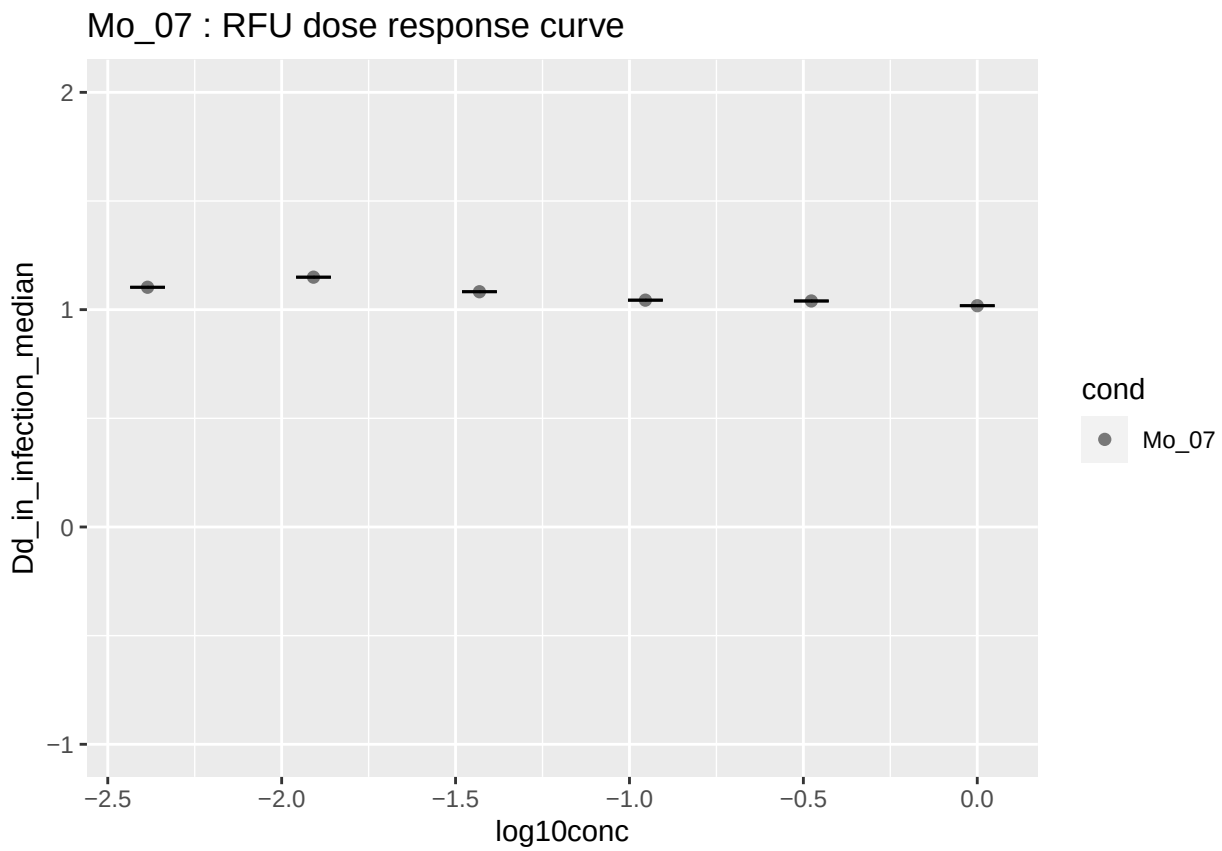

Ko_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

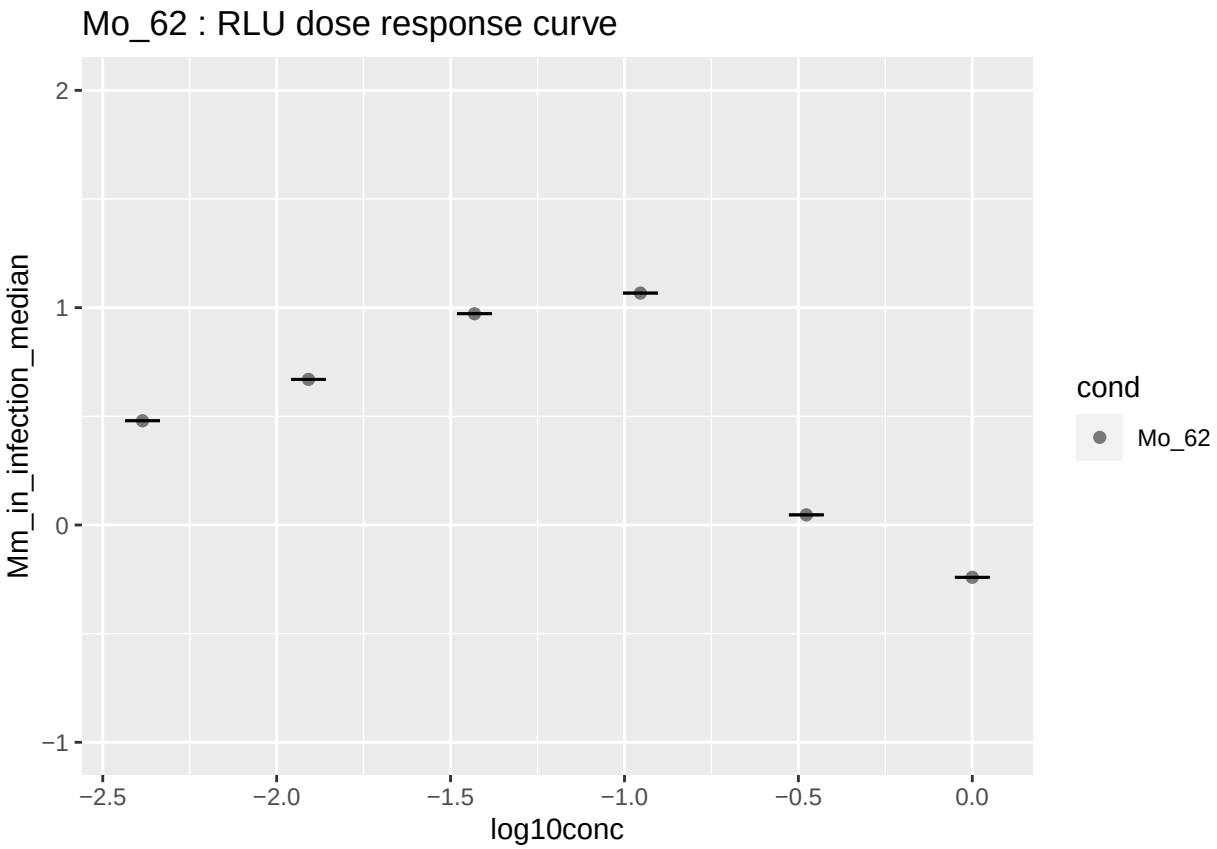

Ko_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

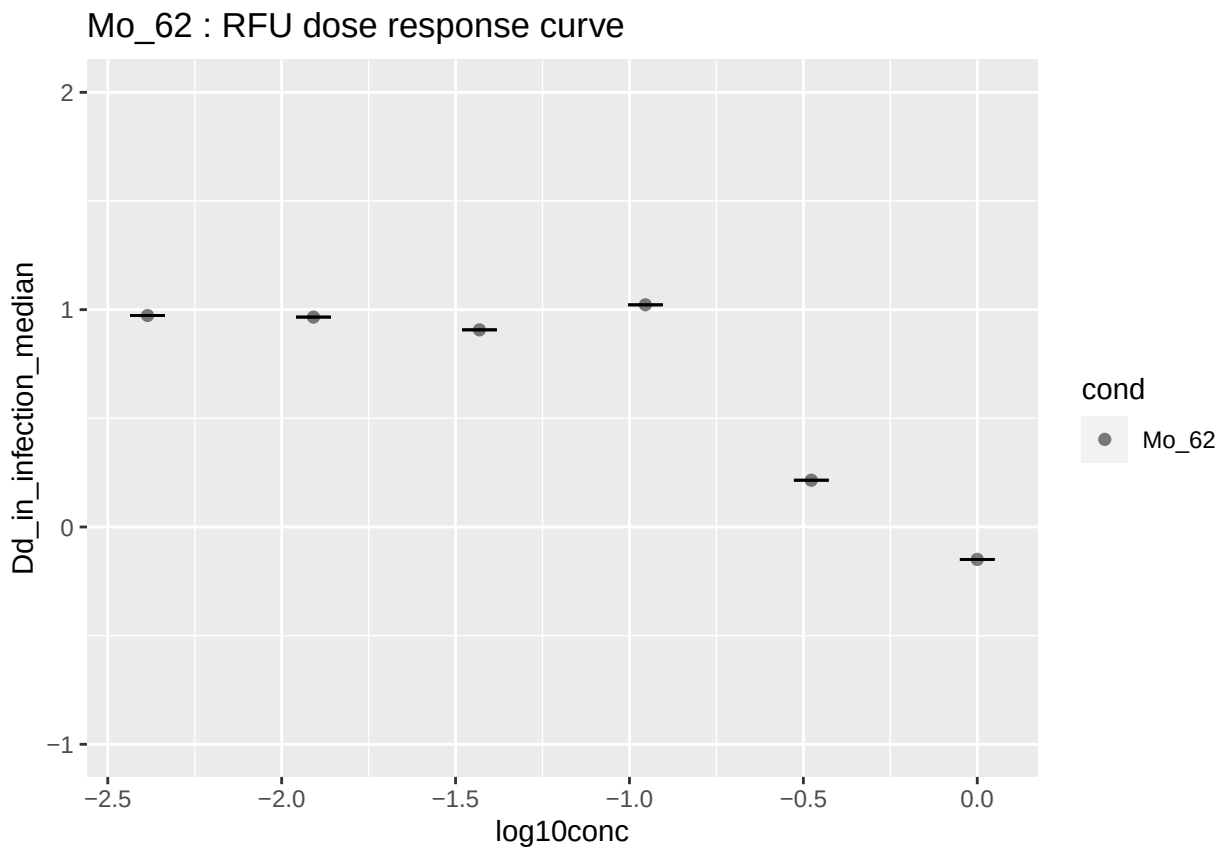

Ko_58 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

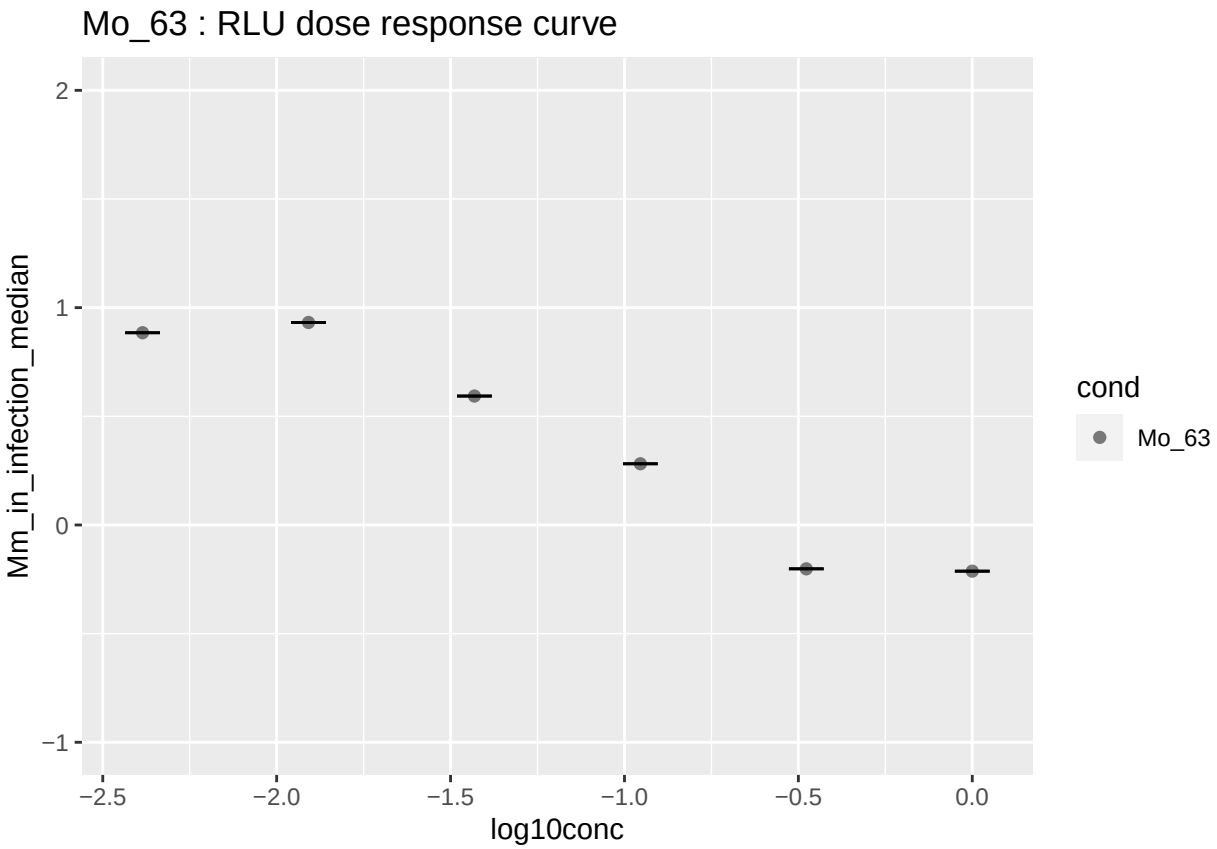

Ko_58 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

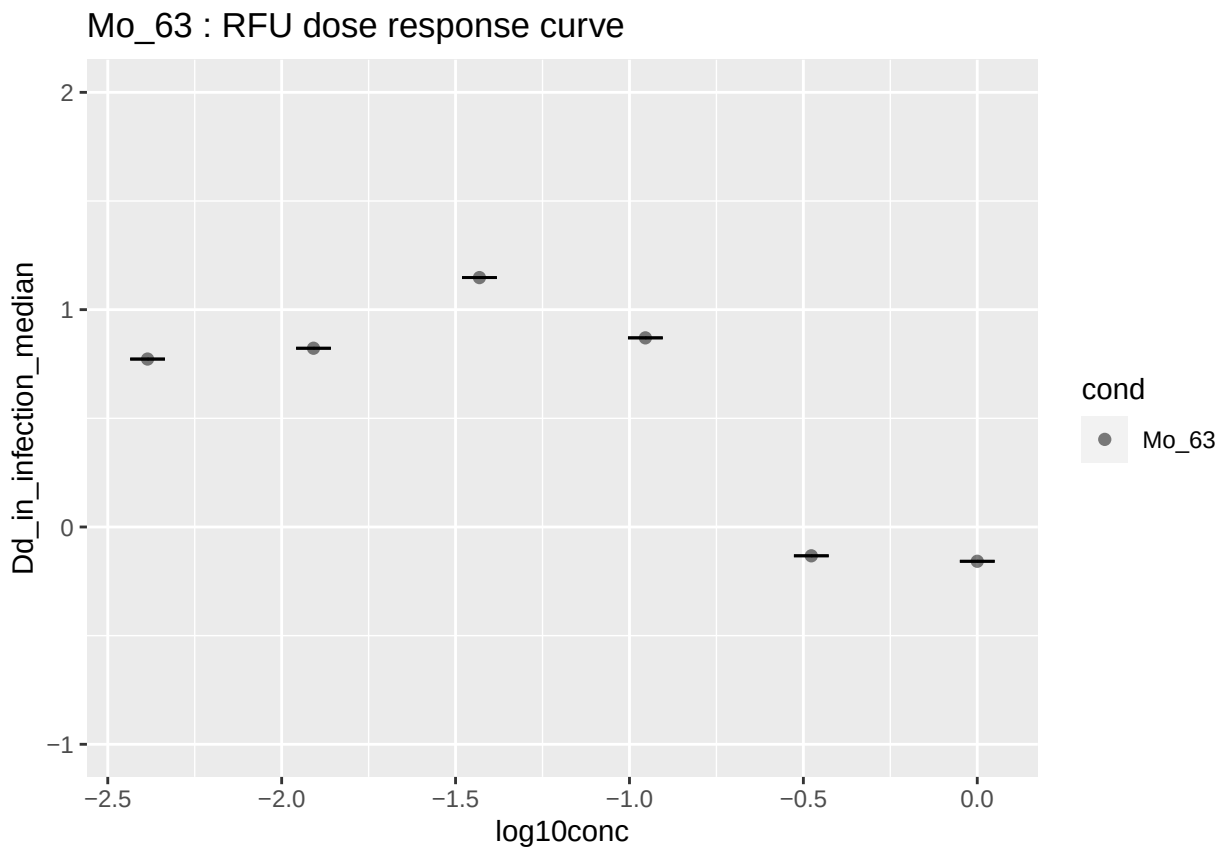

Mo_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

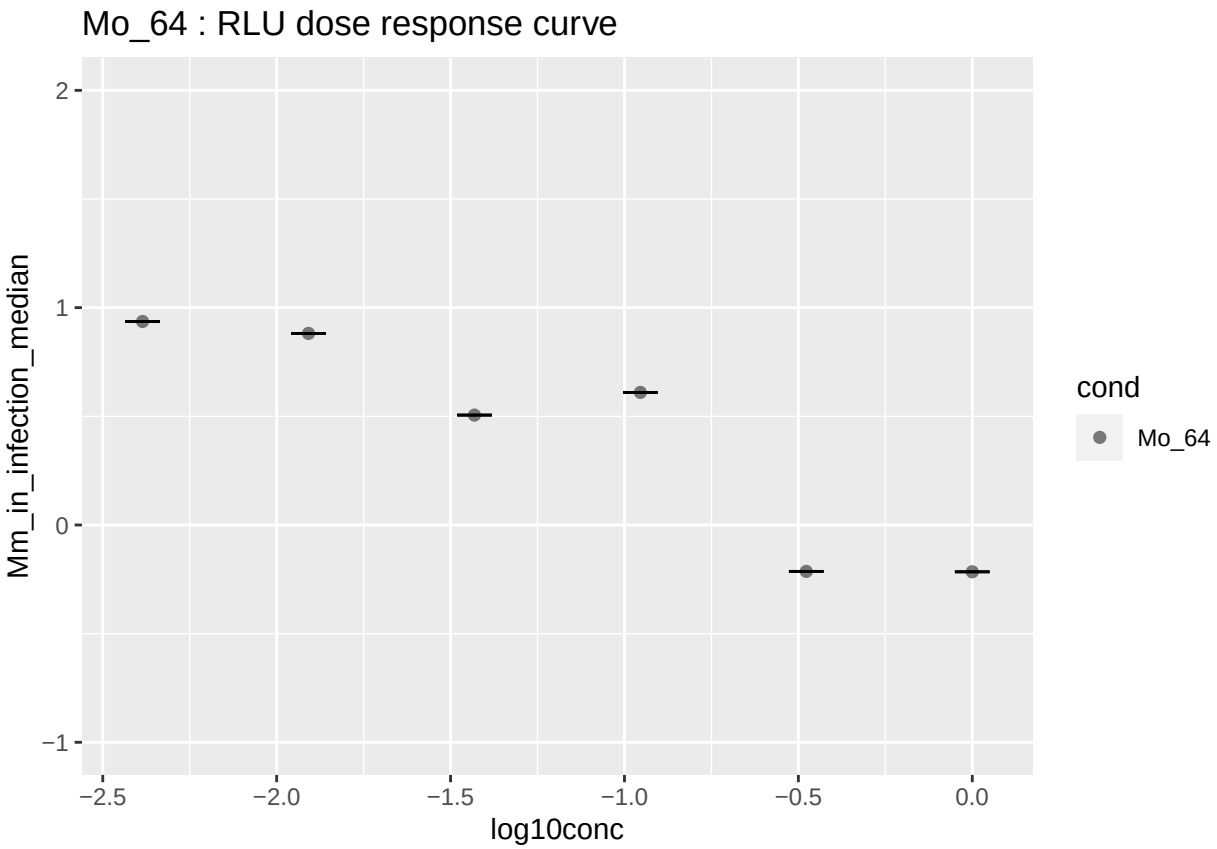

Mo_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

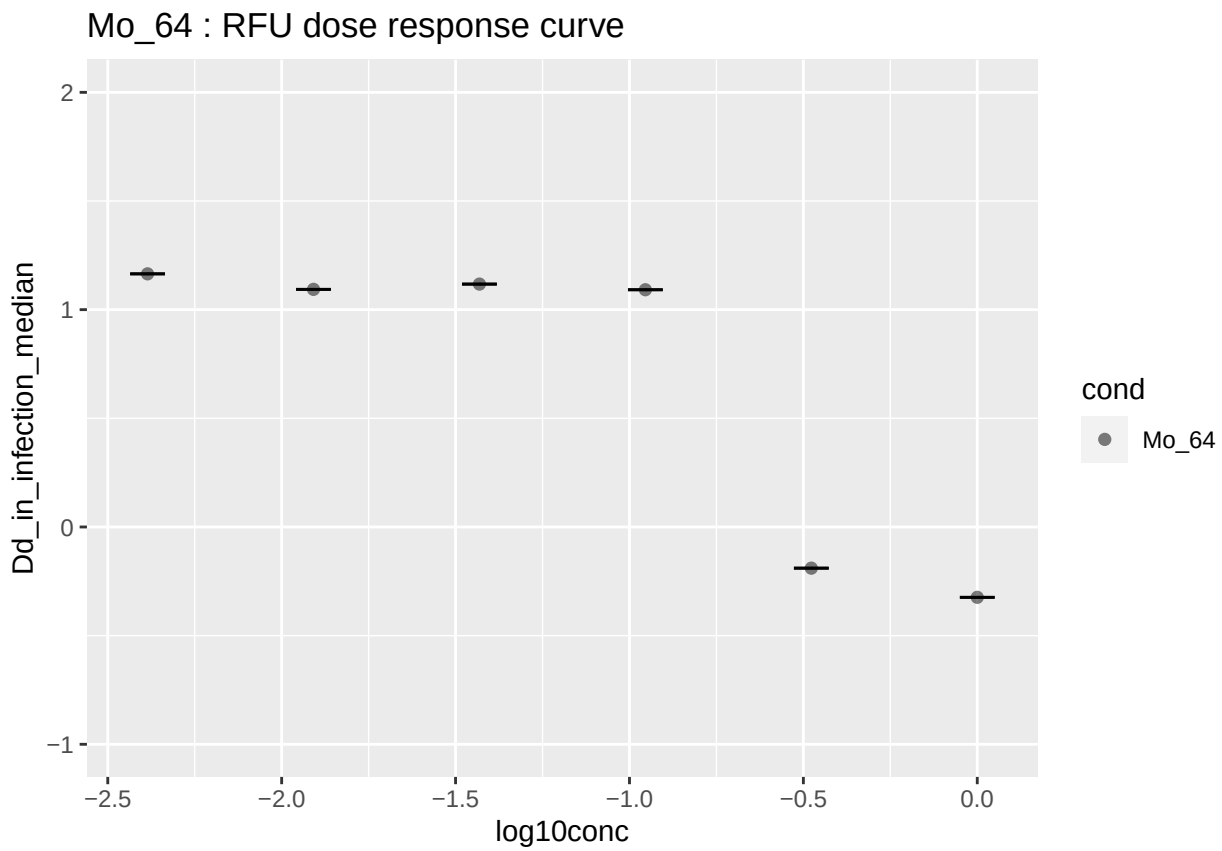

Mo_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

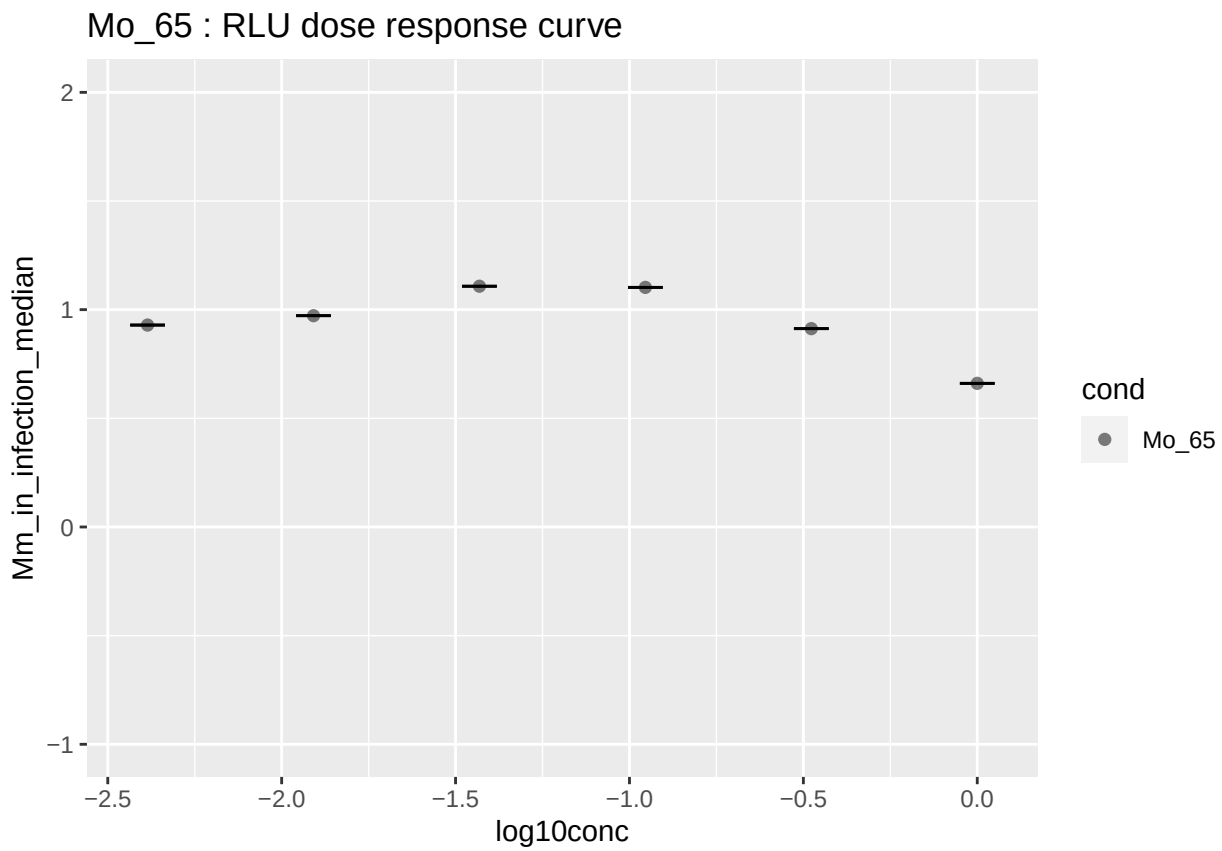

Mo_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

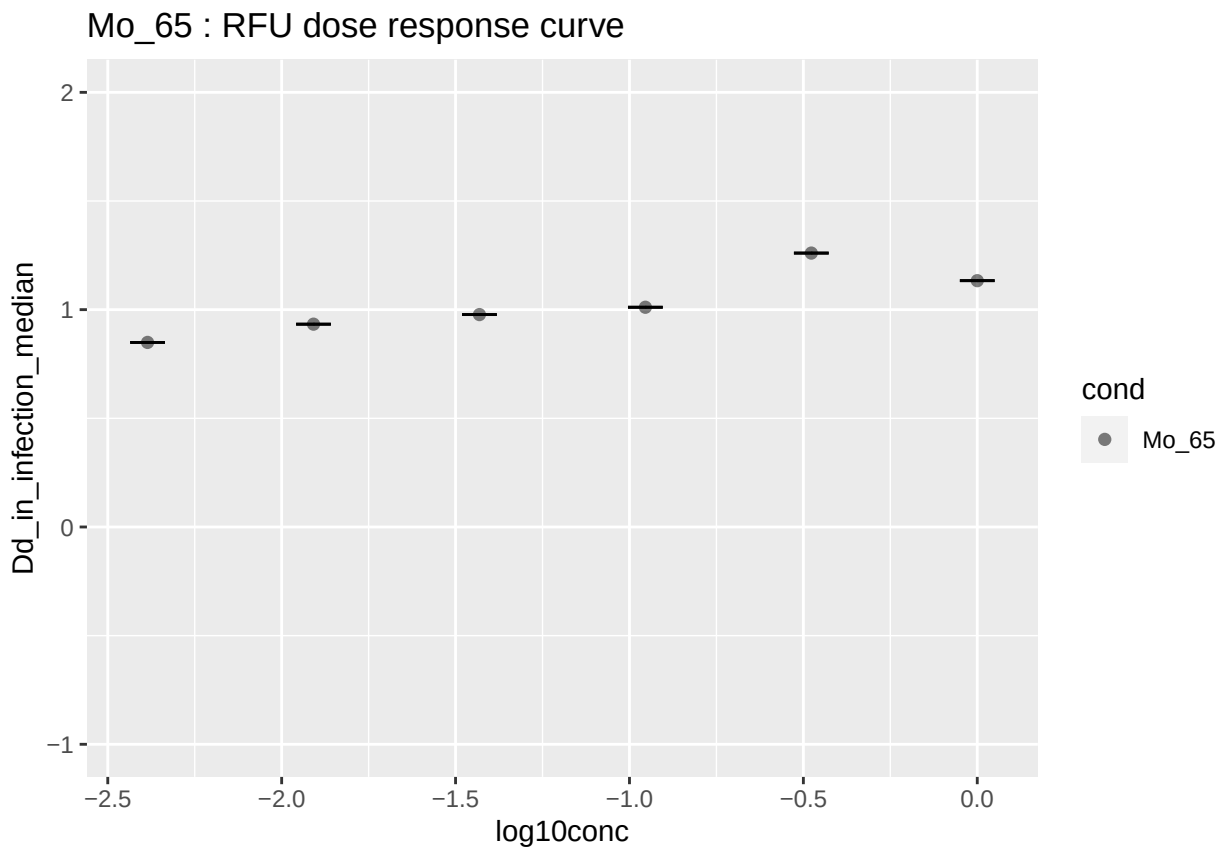

Mo_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

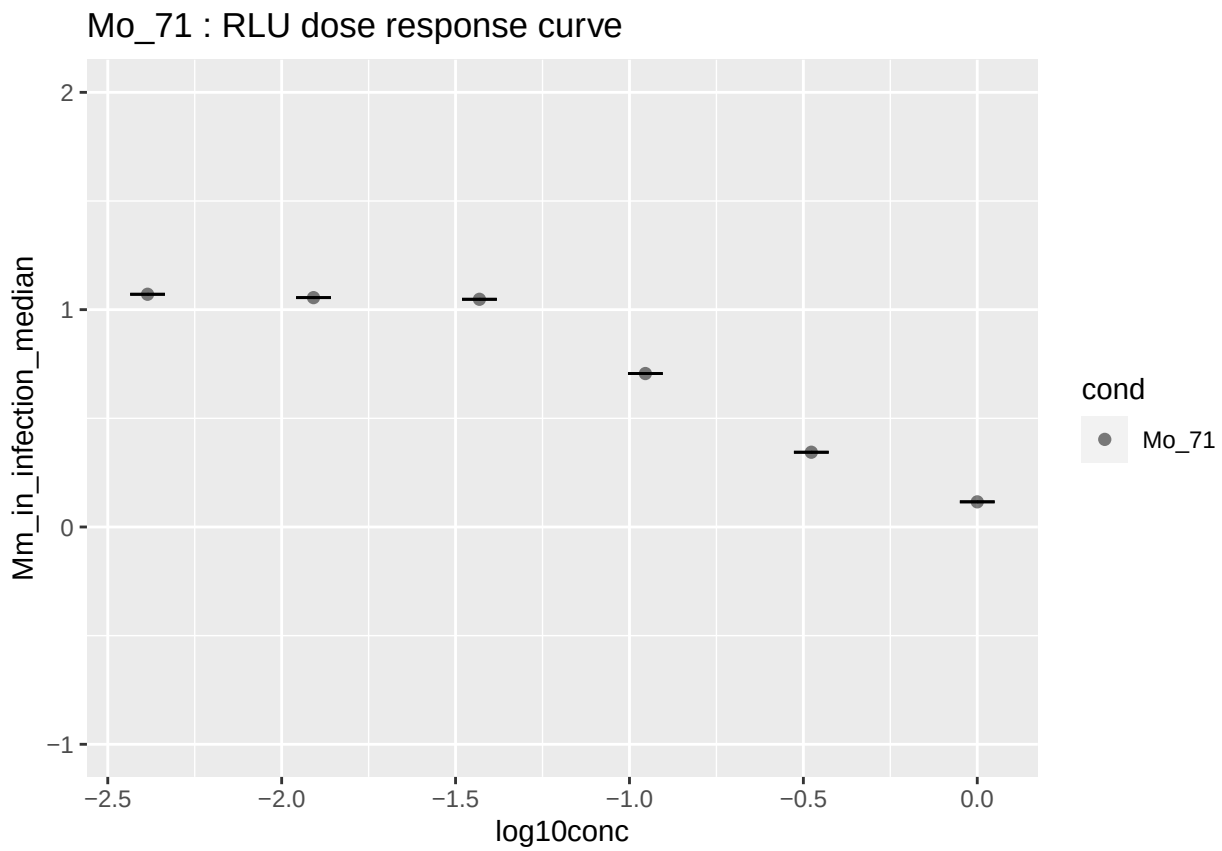

Mo_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

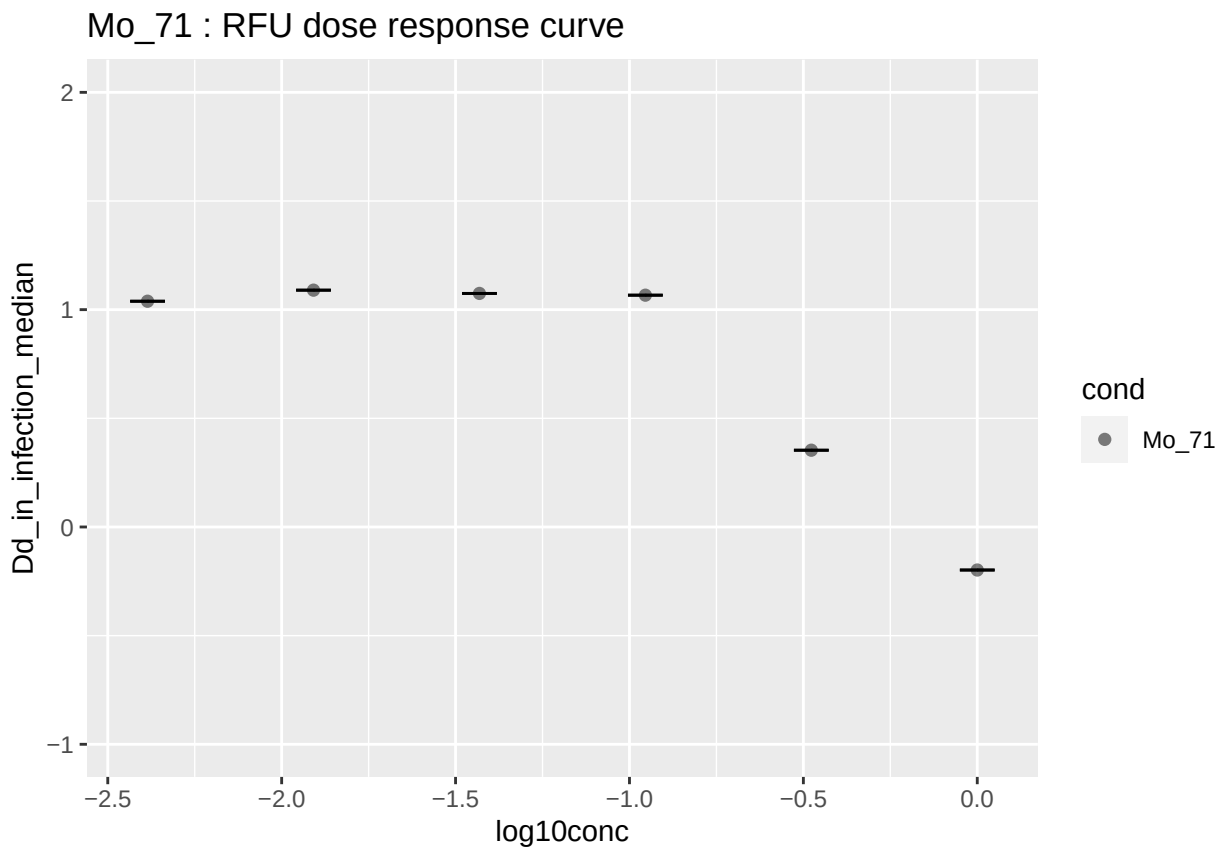

Mo_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

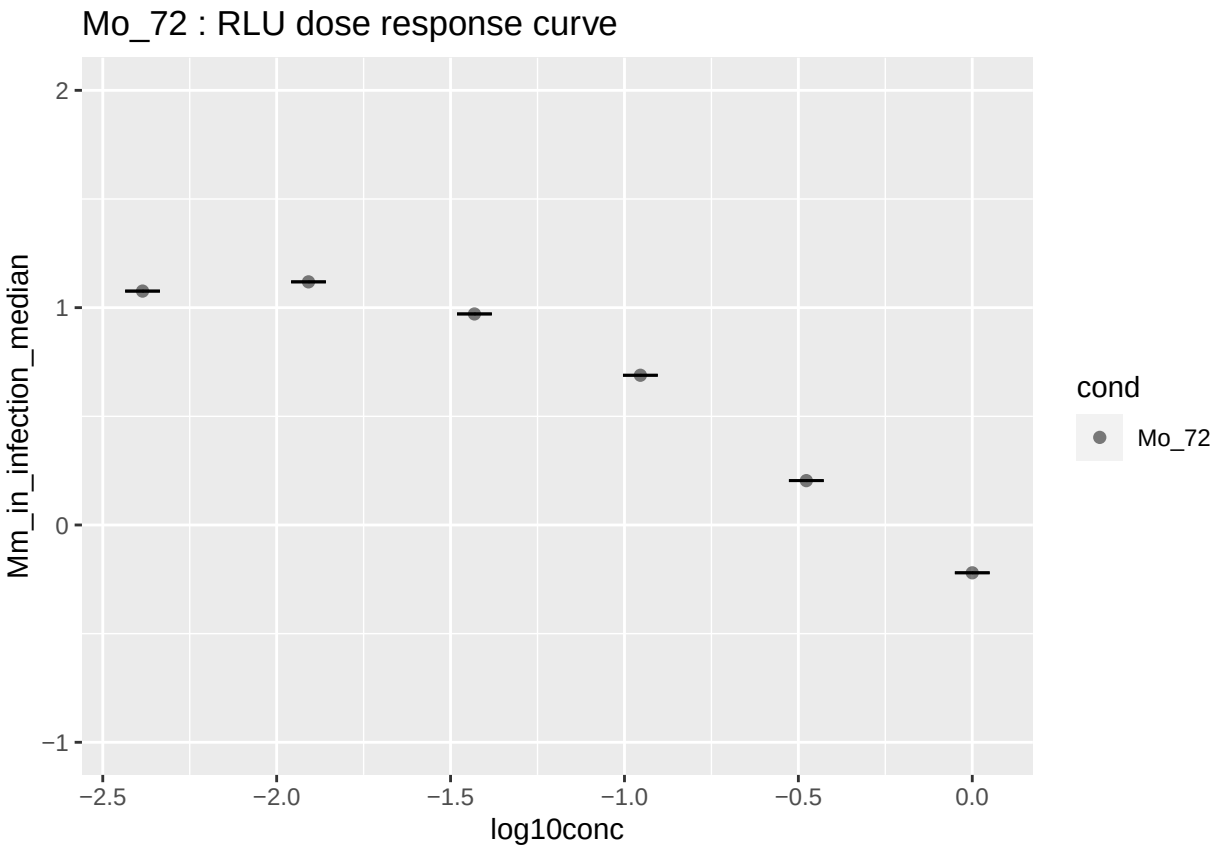

Mo_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

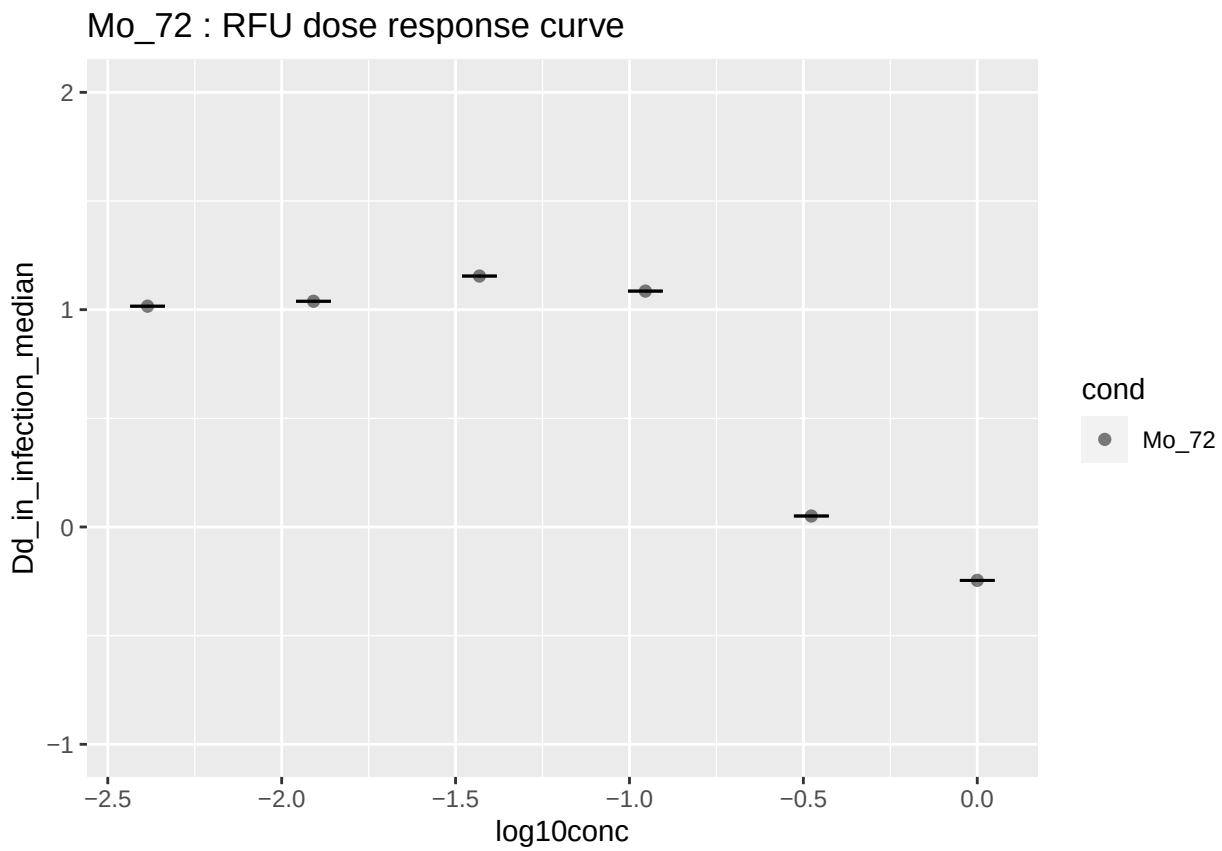

Mo_65 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

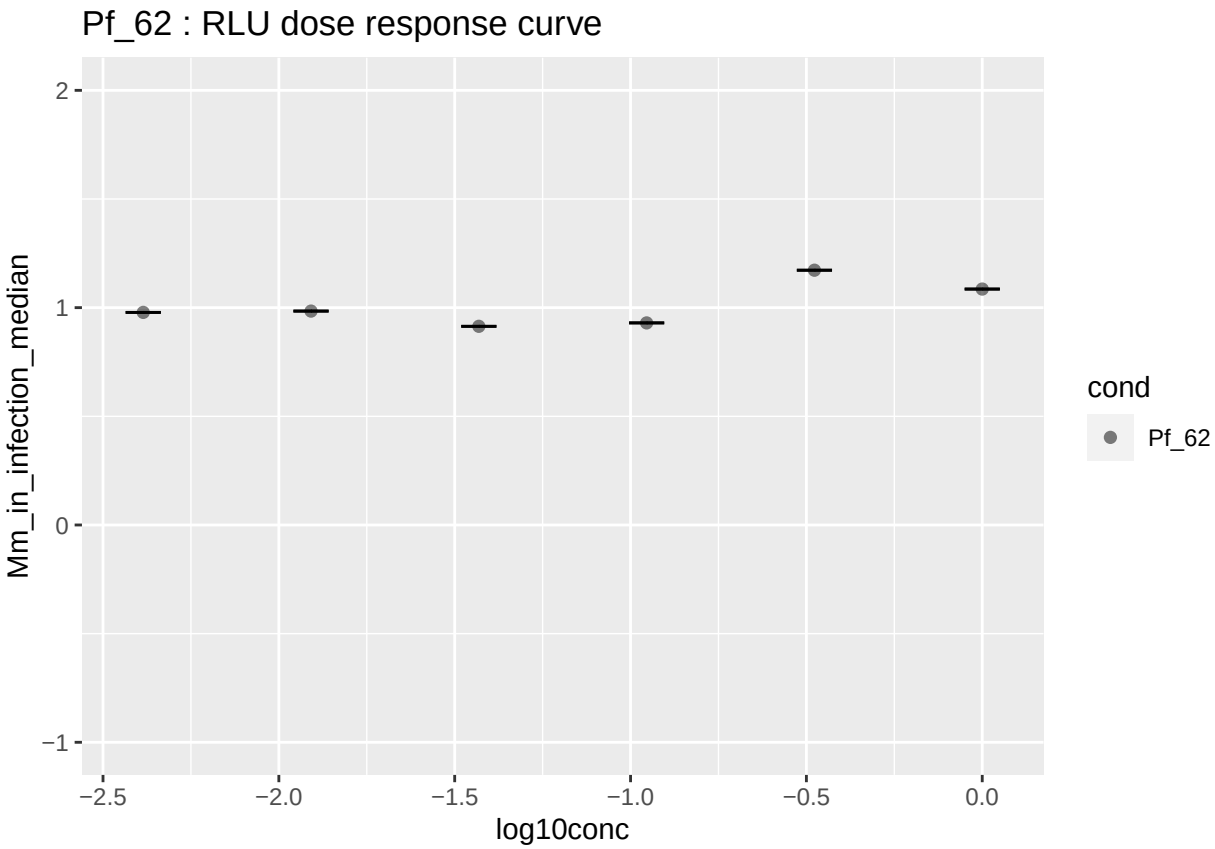

Mo_65 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

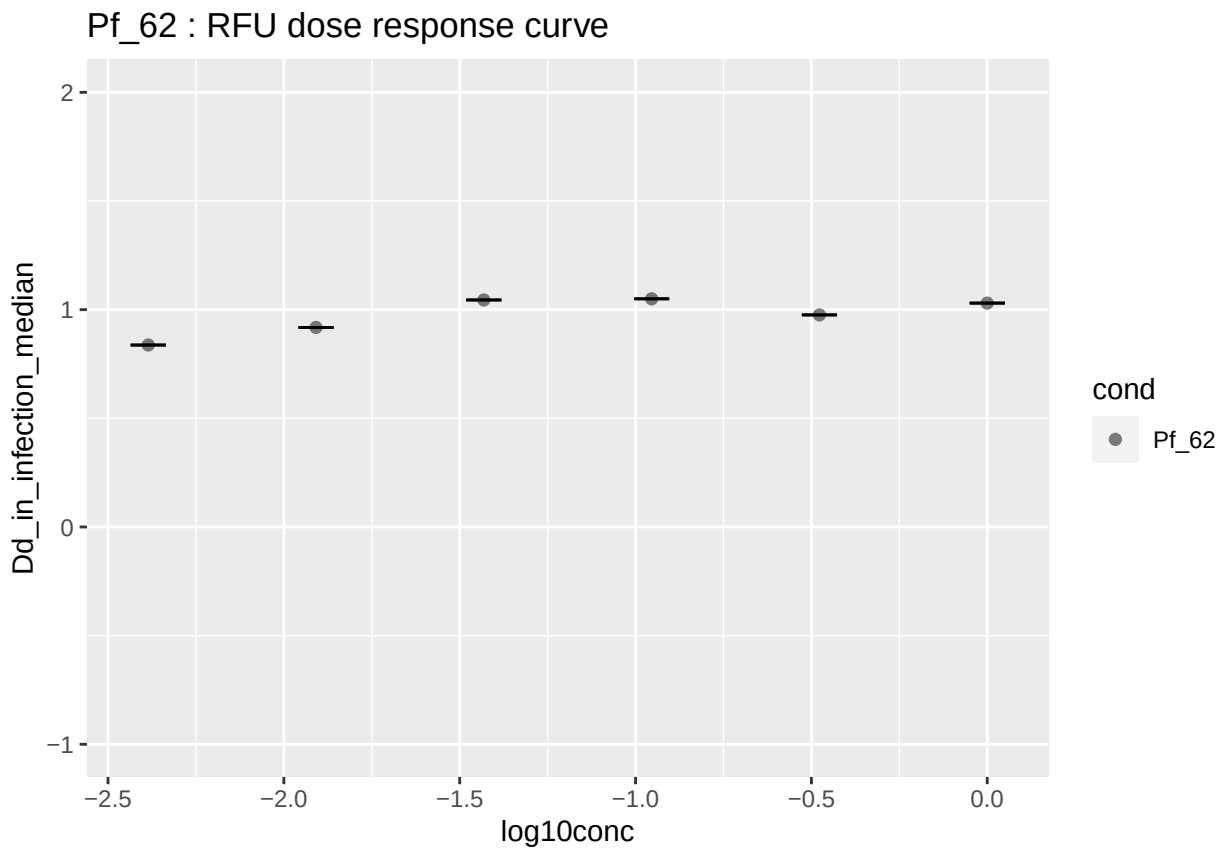

Mo_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

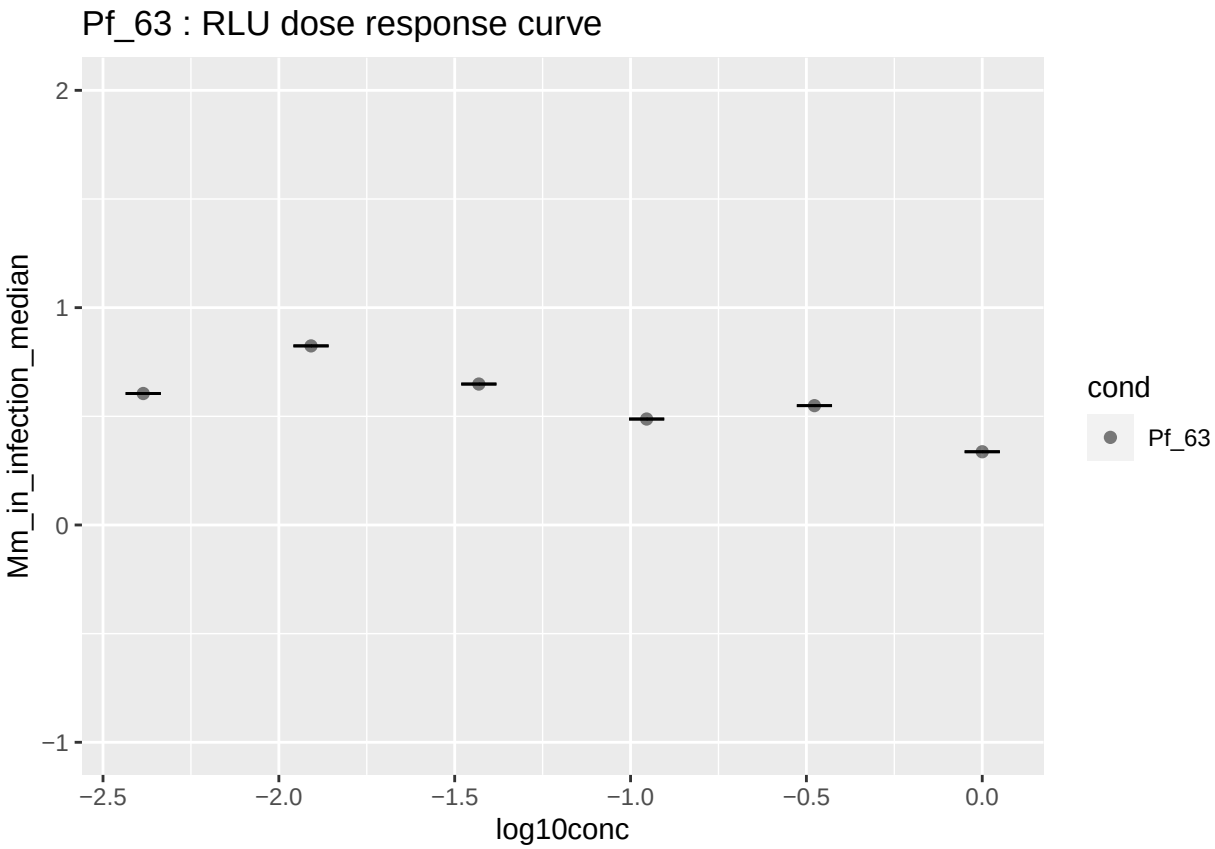

Mo_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

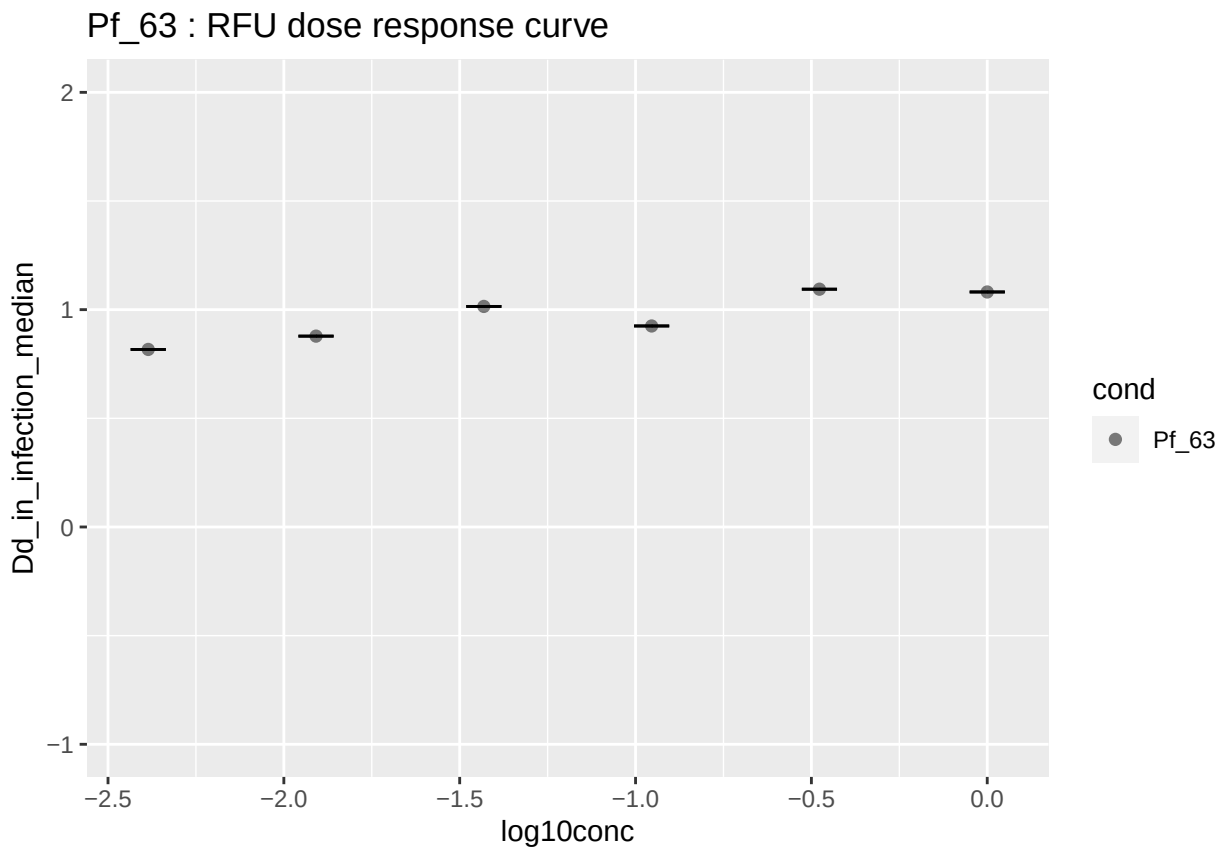

Mo_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

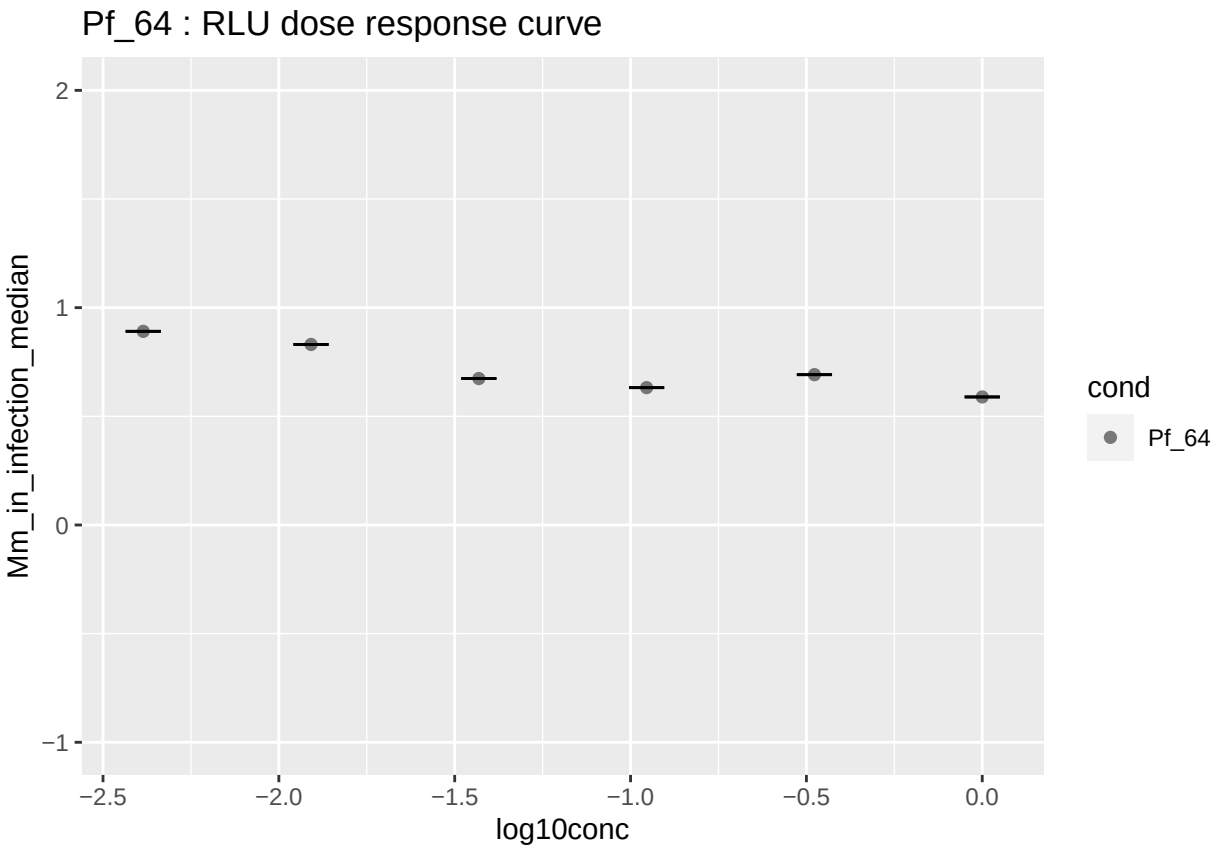

Mo_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

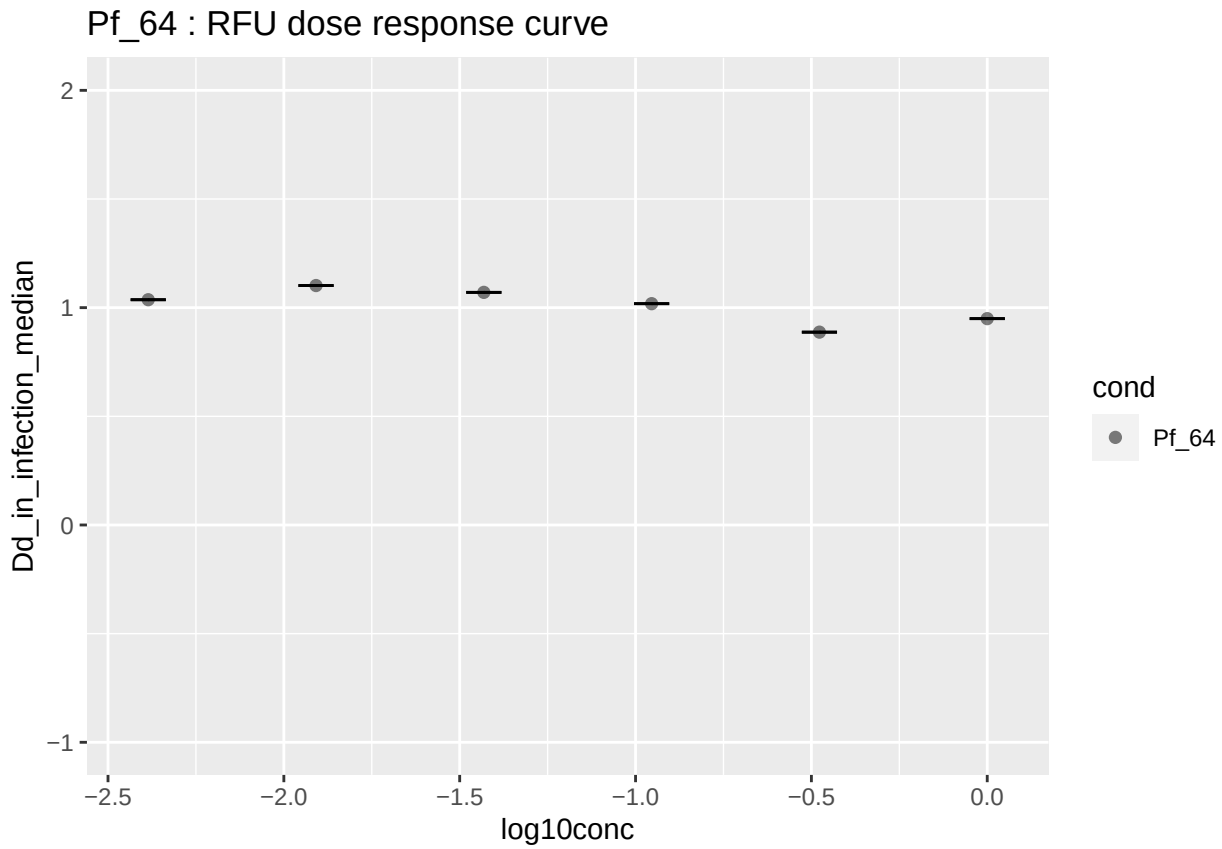

Pf_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

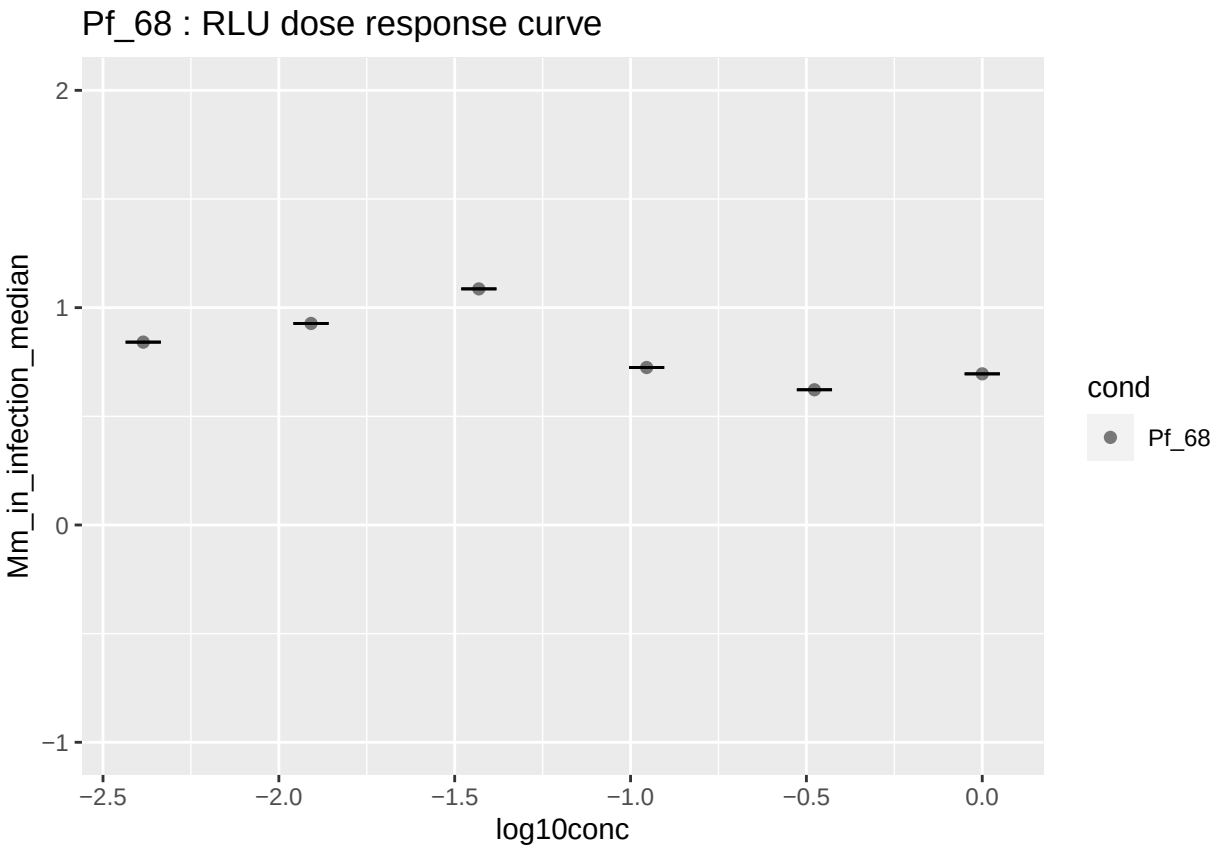

Pf_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

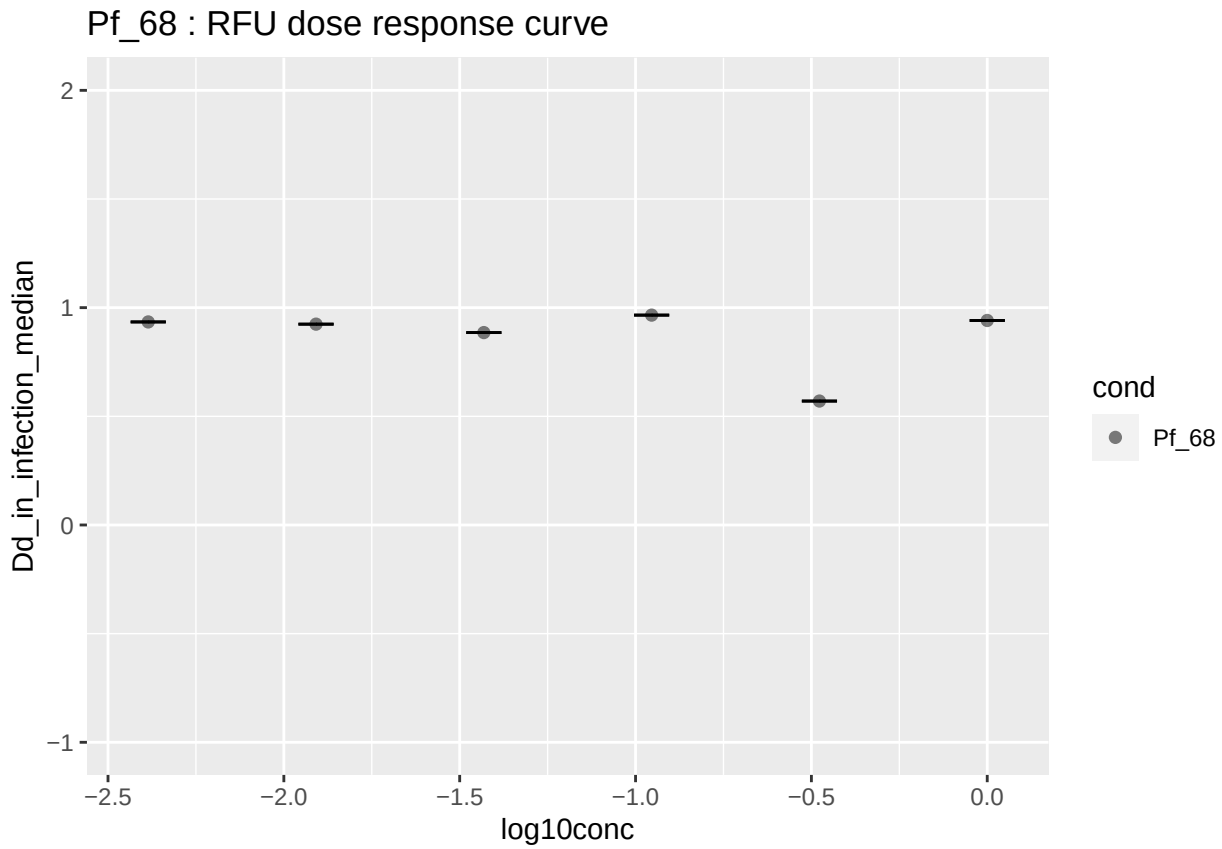

Pf_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

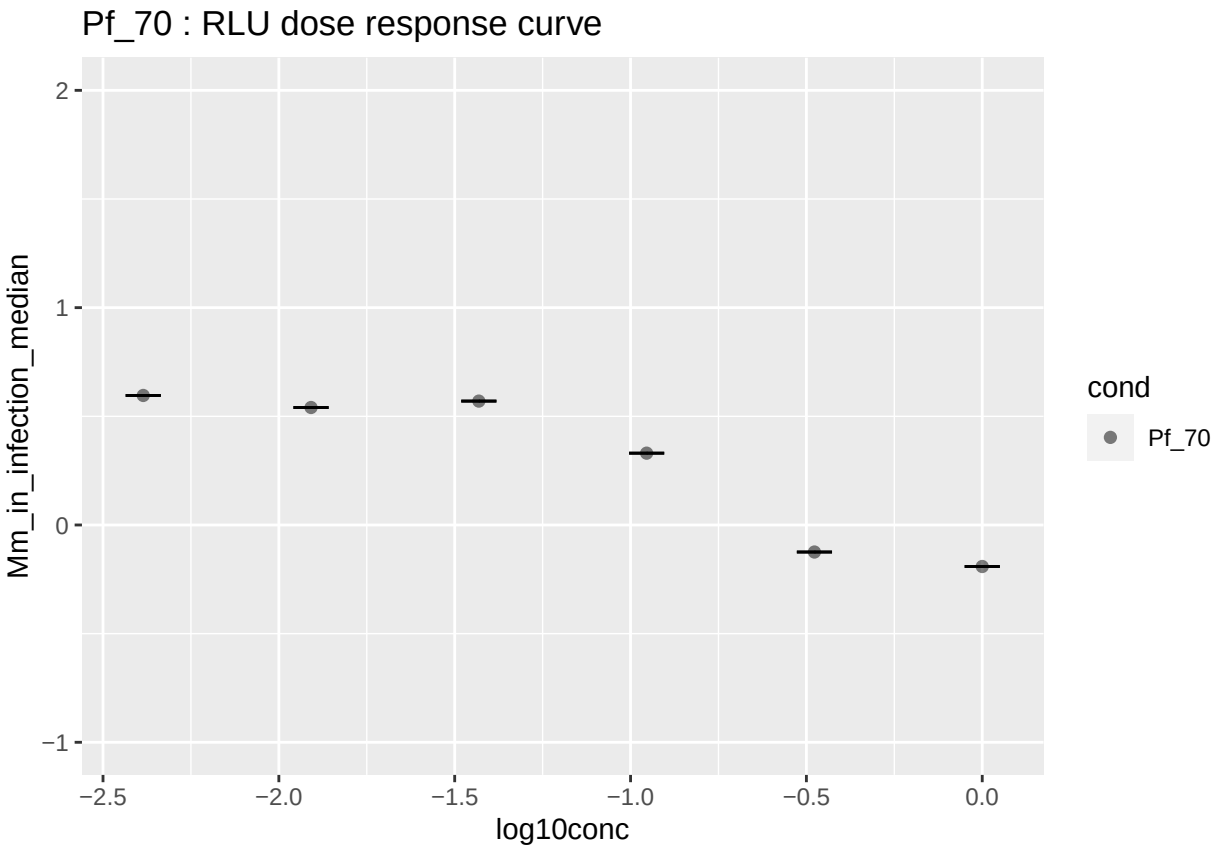

Pf_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

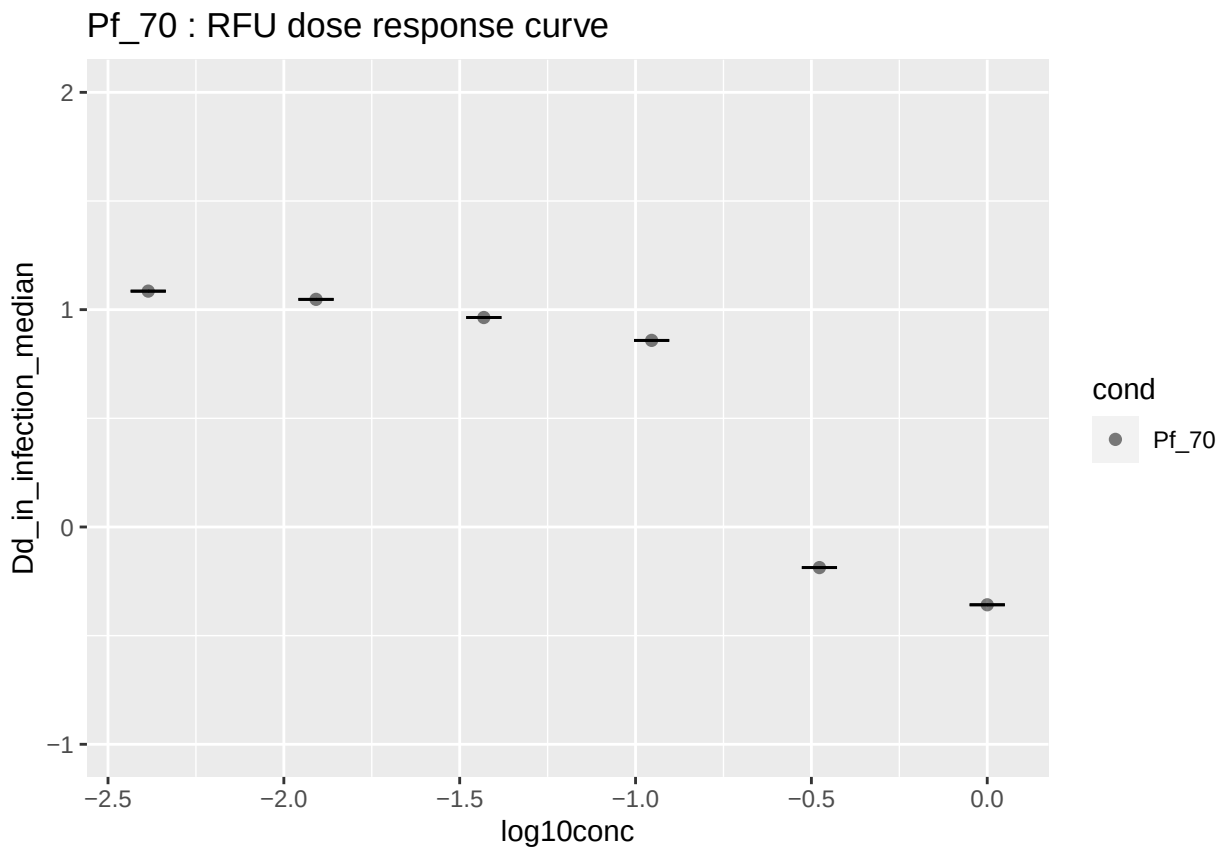

Pf_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

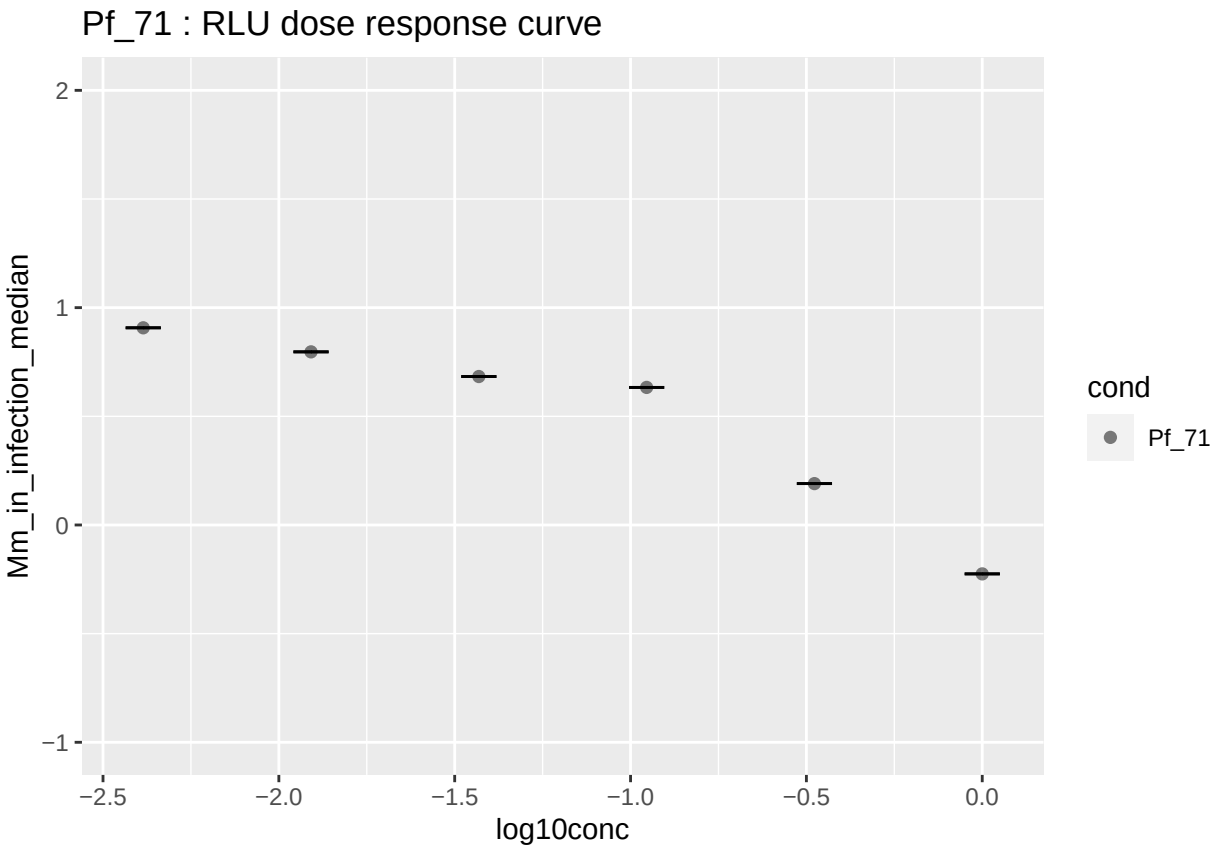

Pf_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

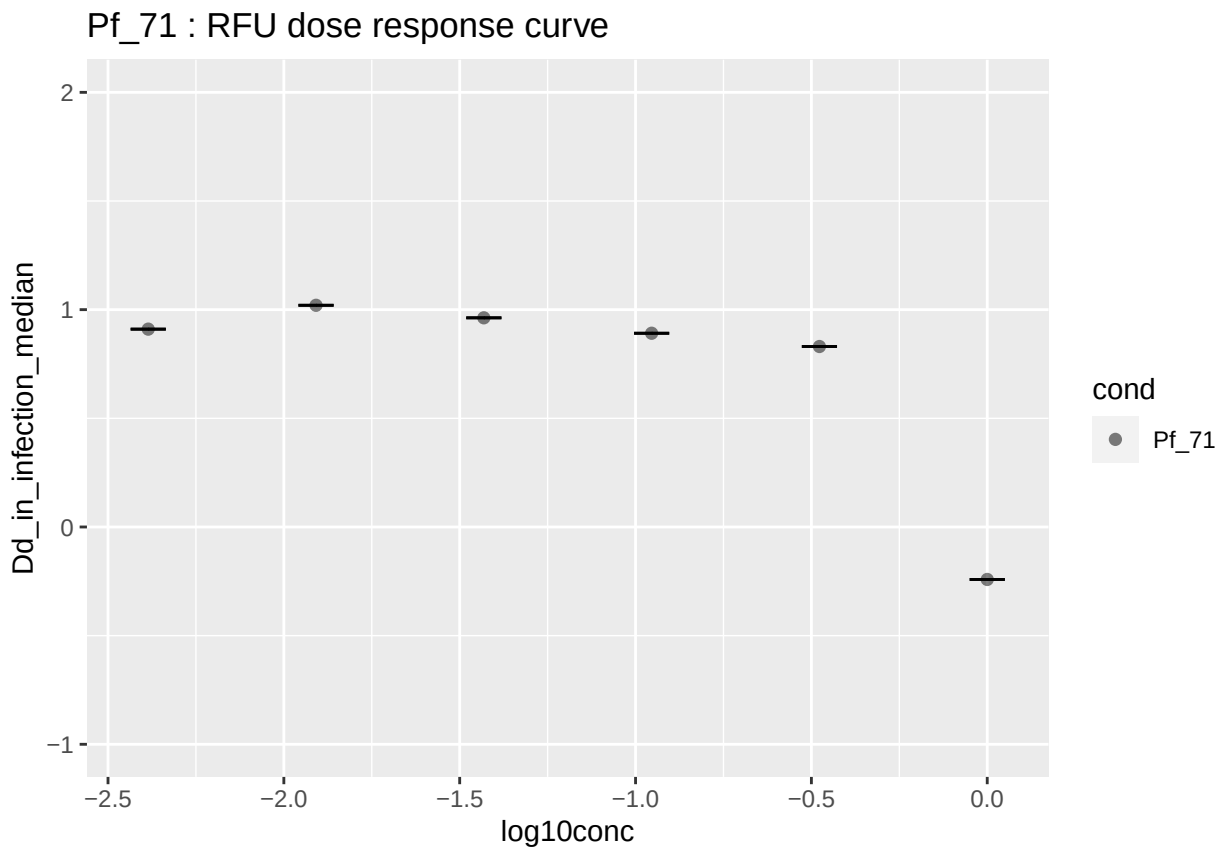

Pf_68 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

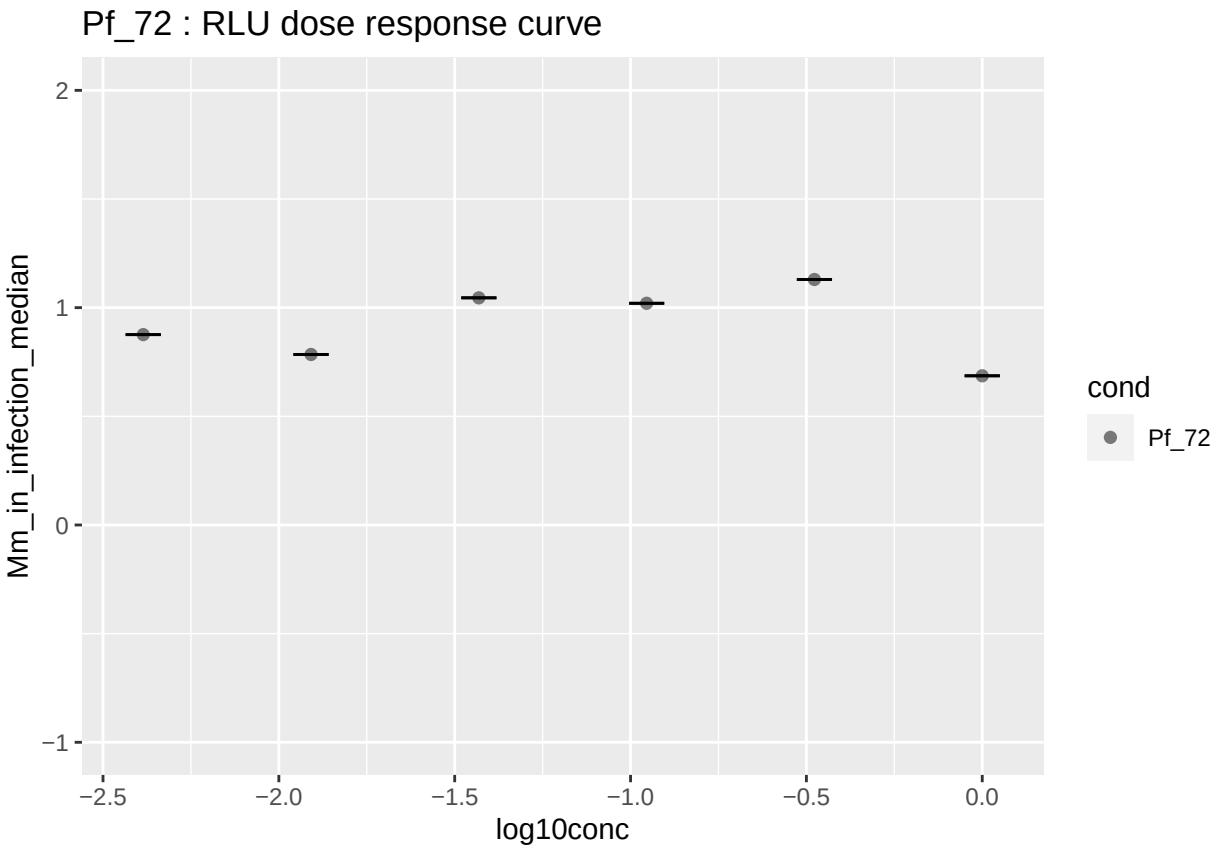

Pf_68 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

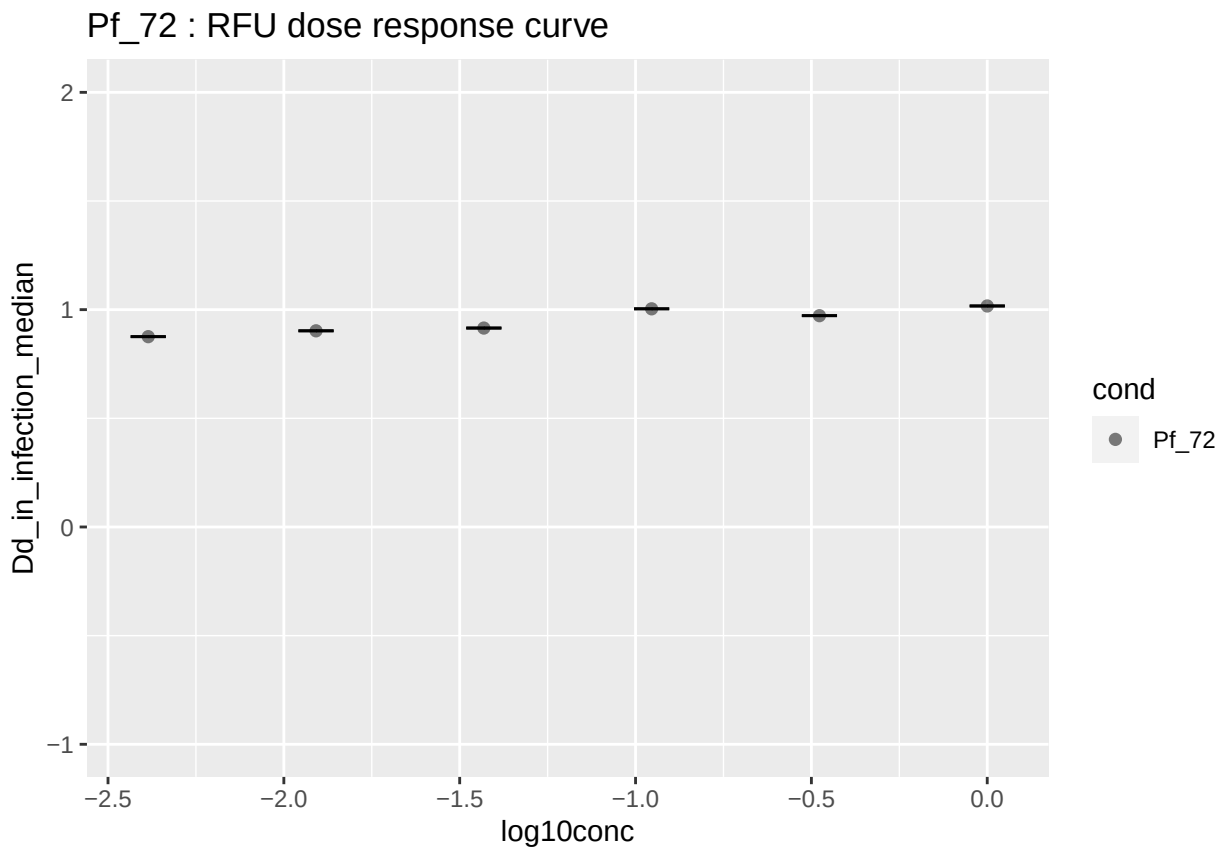

Pf_70 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

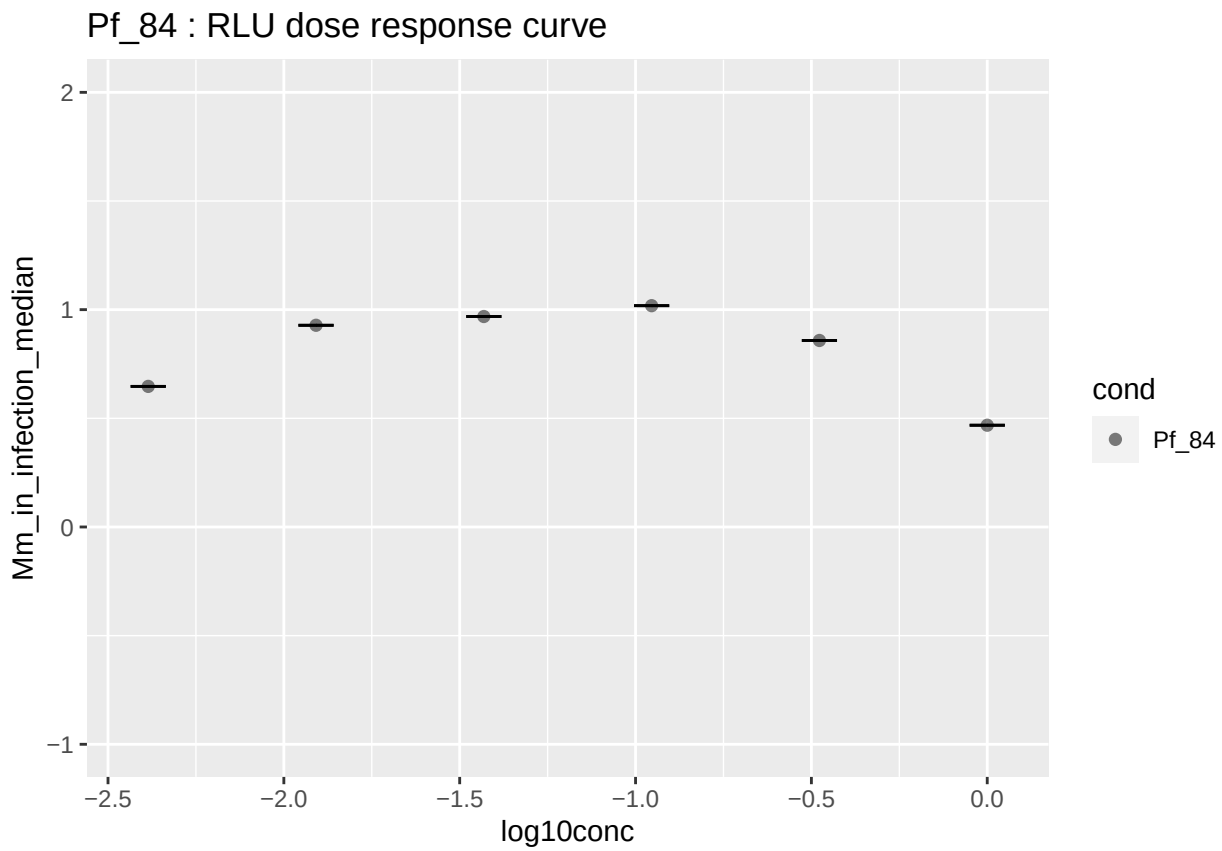

Pf_70 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

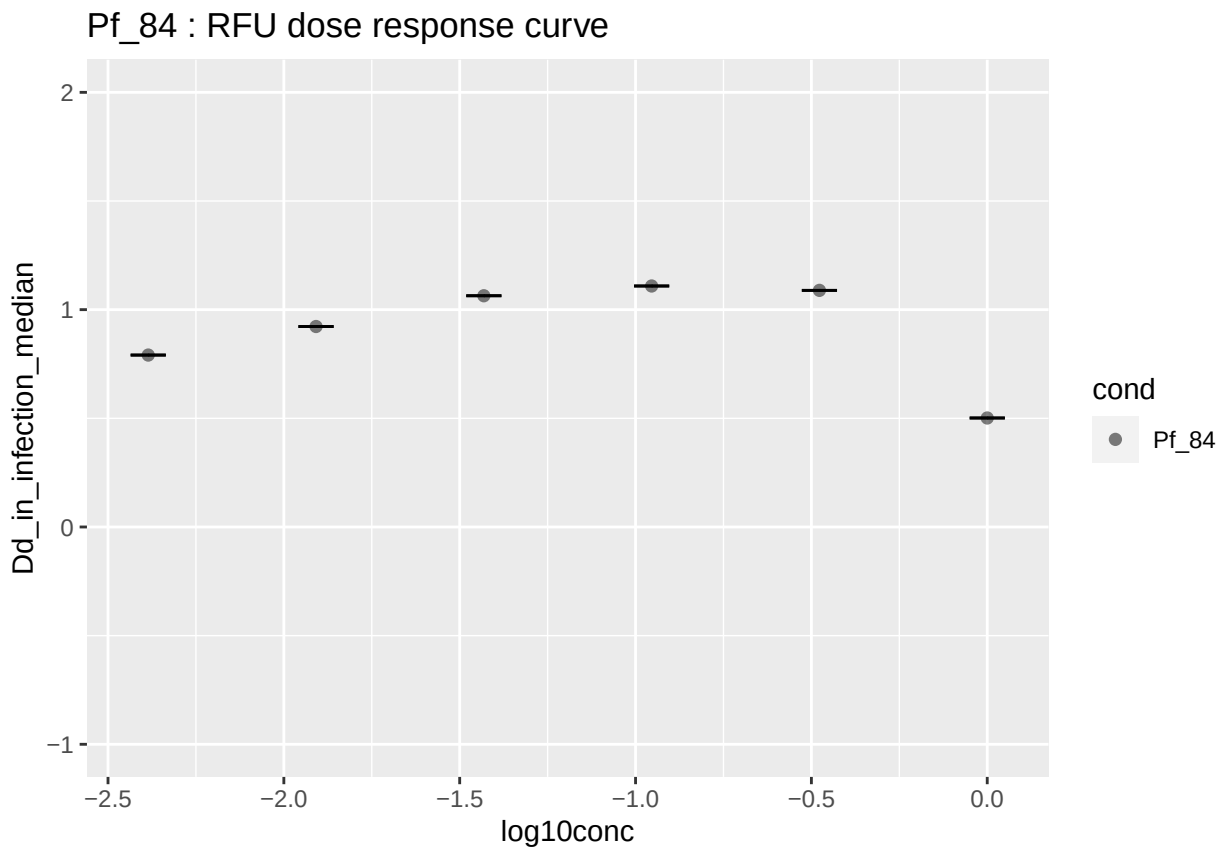

Pf_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

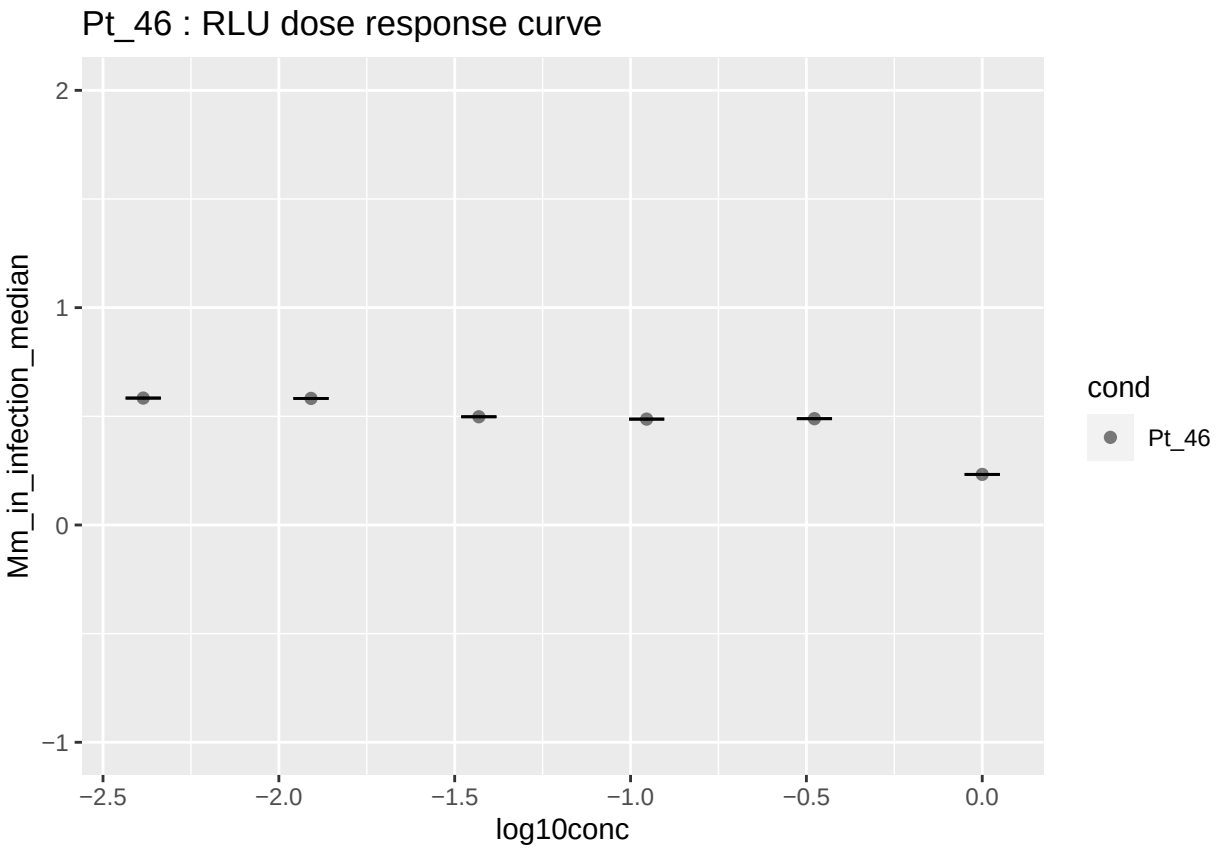

Pf_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

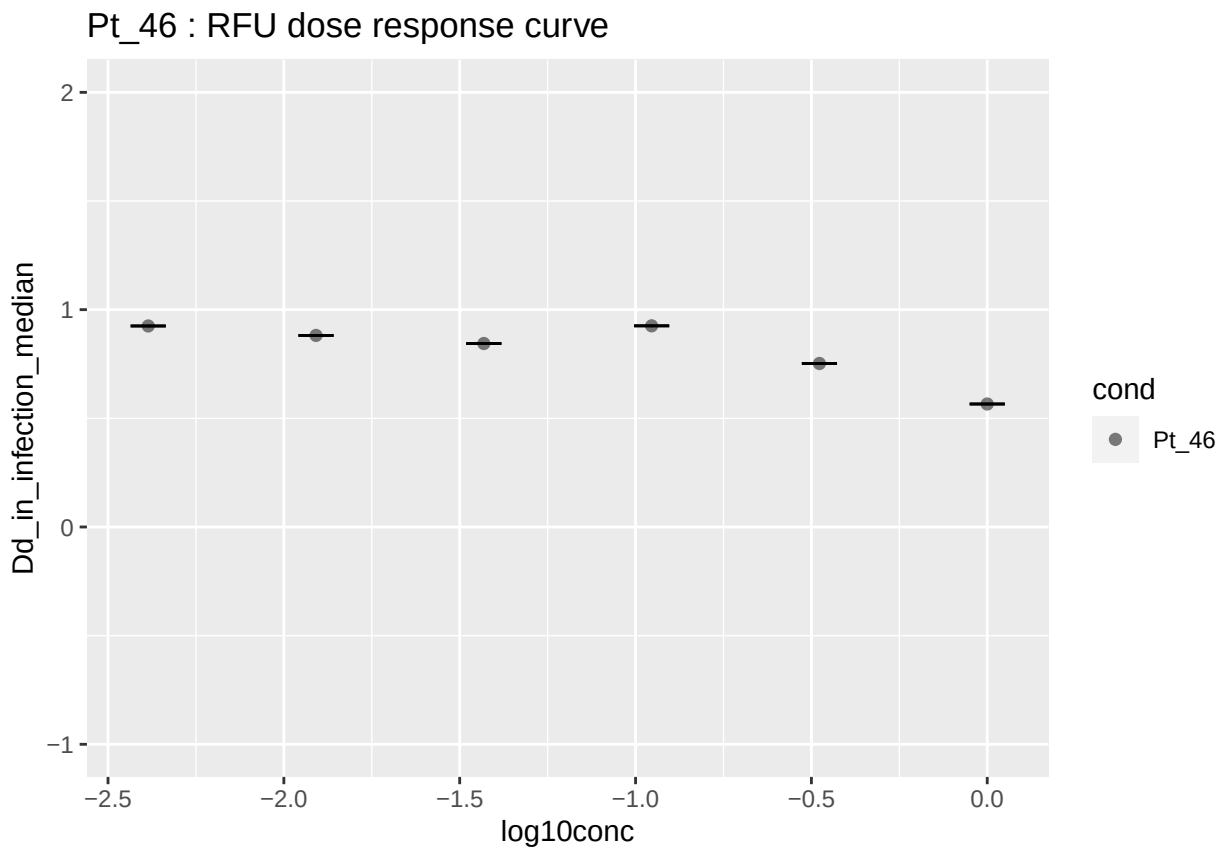

Pf_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

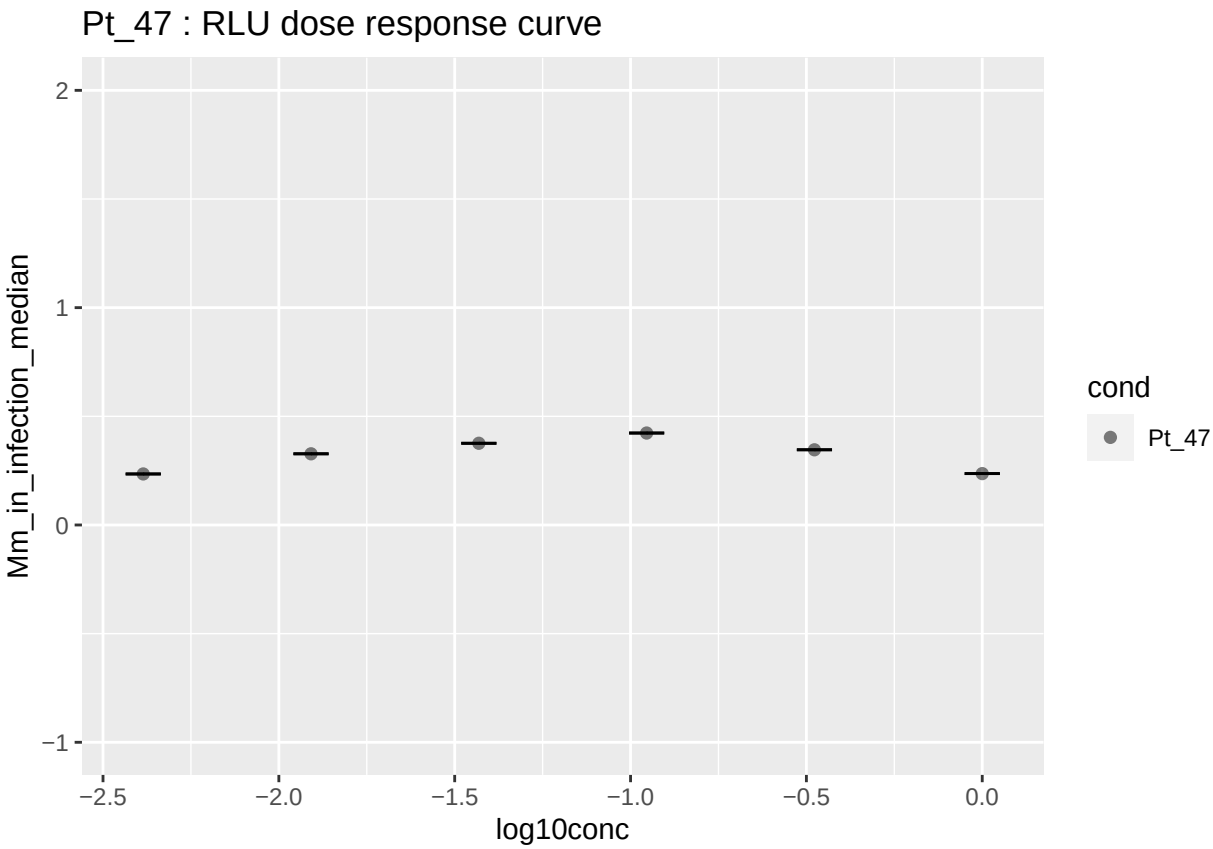

Pf_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

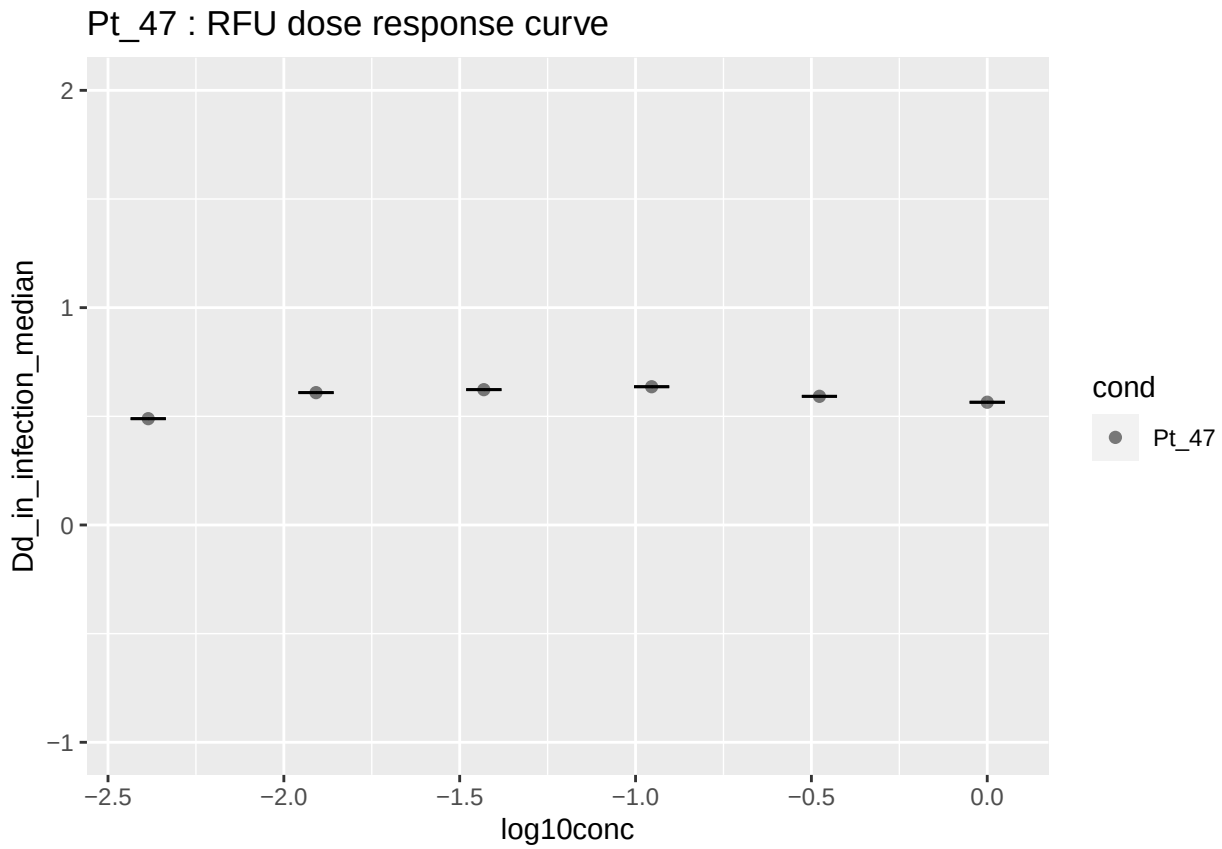

Pf_84 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84


Pf_84 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84

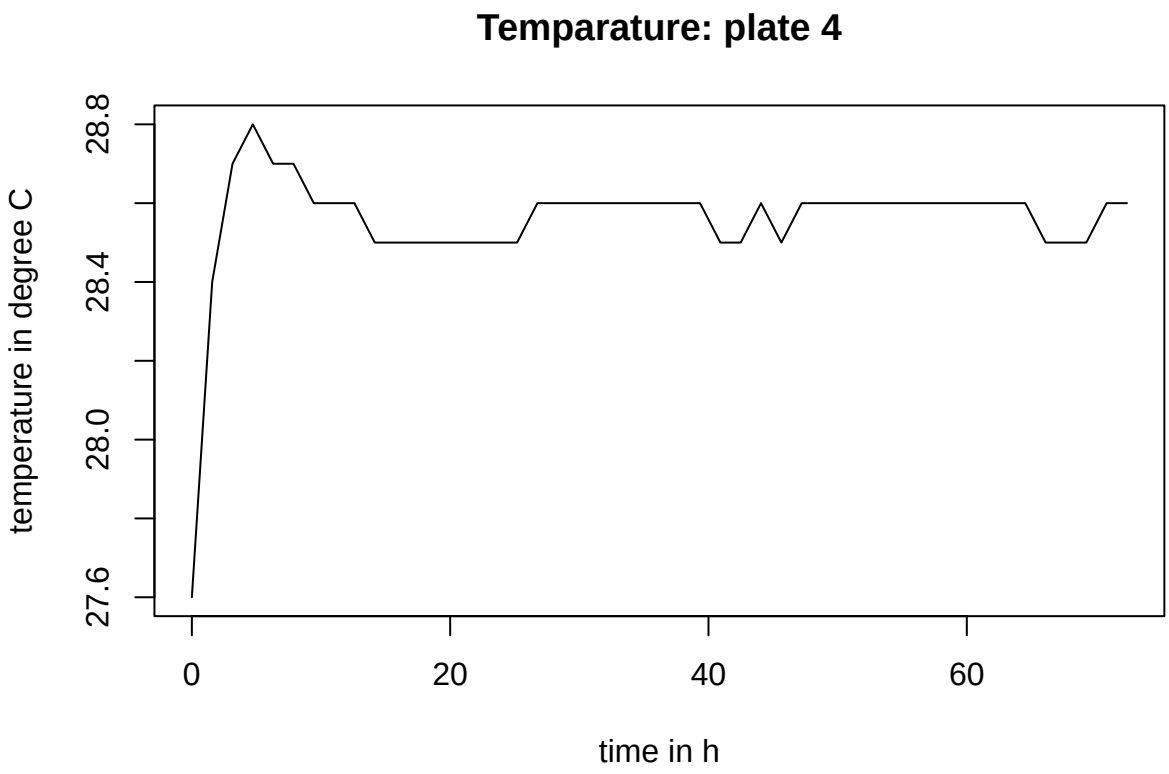

Pt_46 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46


Pt_46 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46

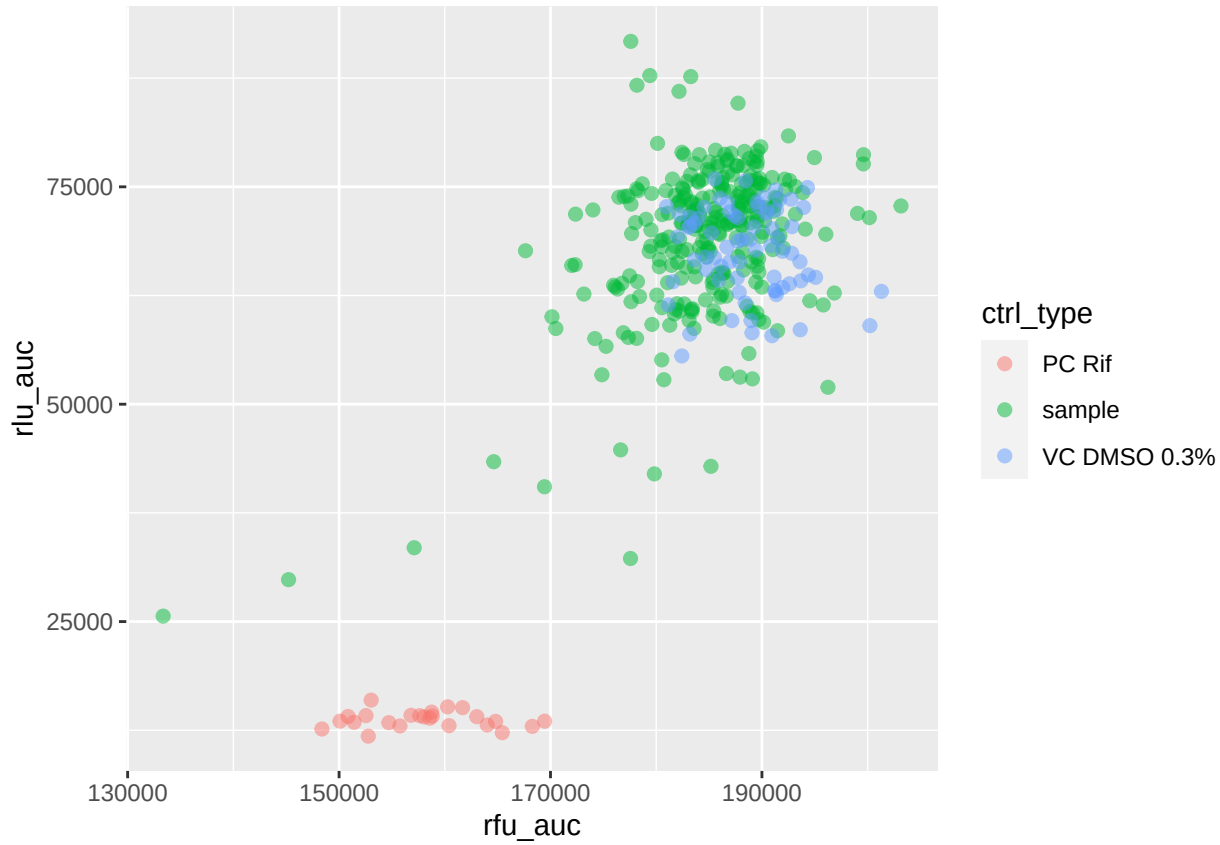

Pt_47 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_47

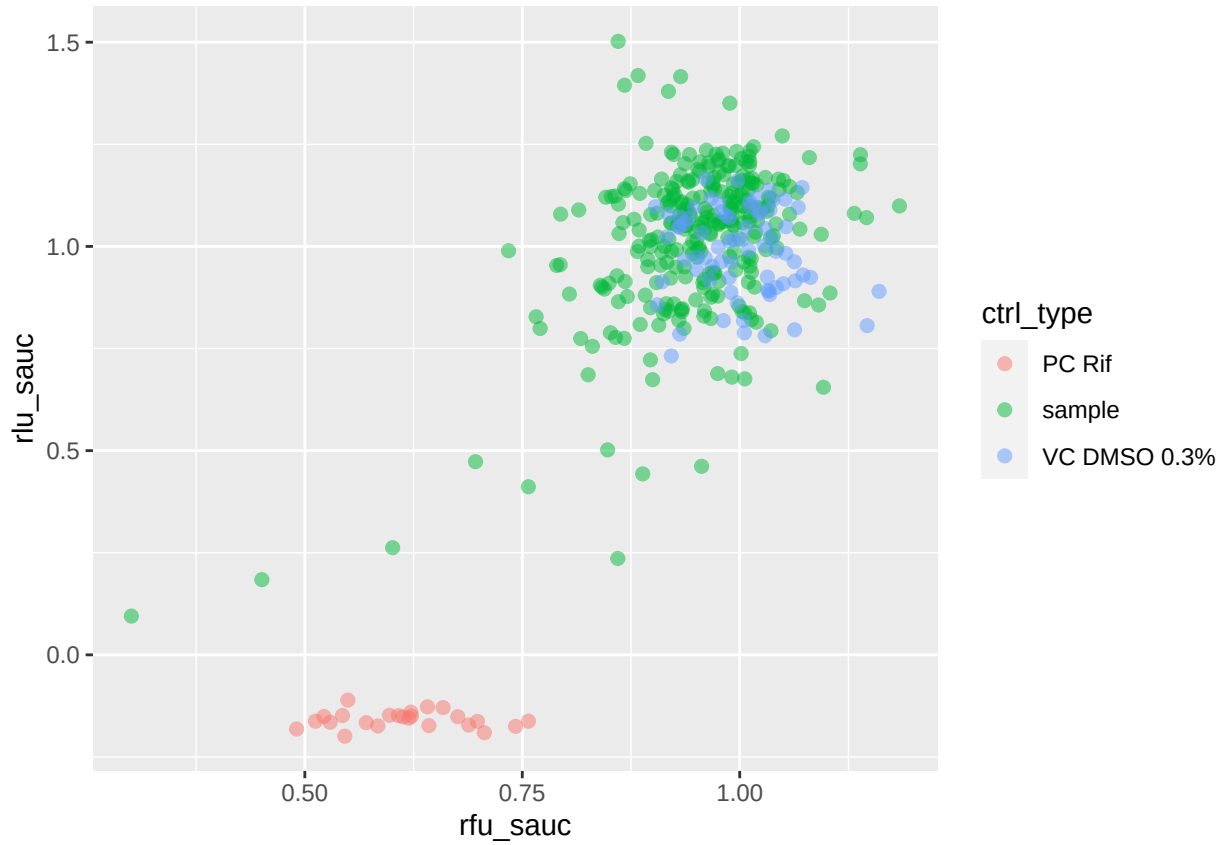


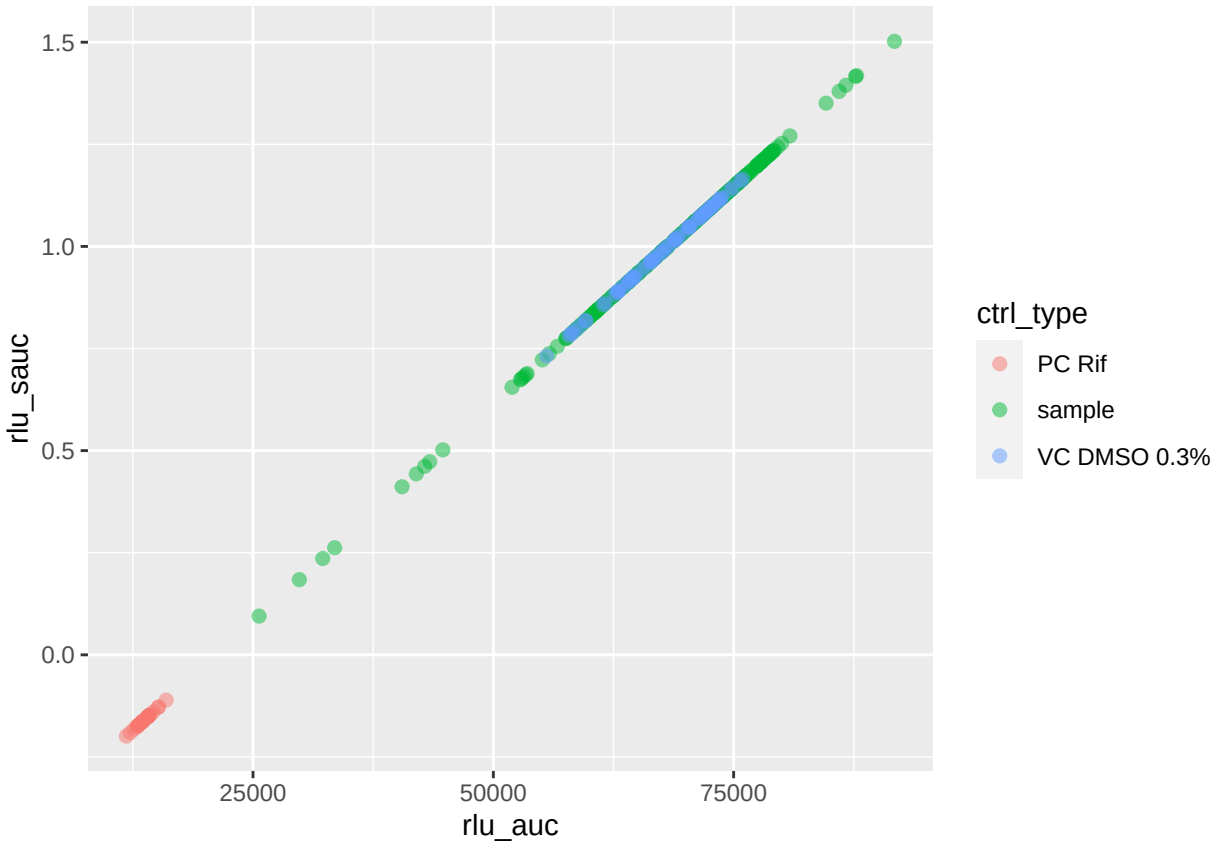

```
## [1] "analysis for plate05.xlsx"
```

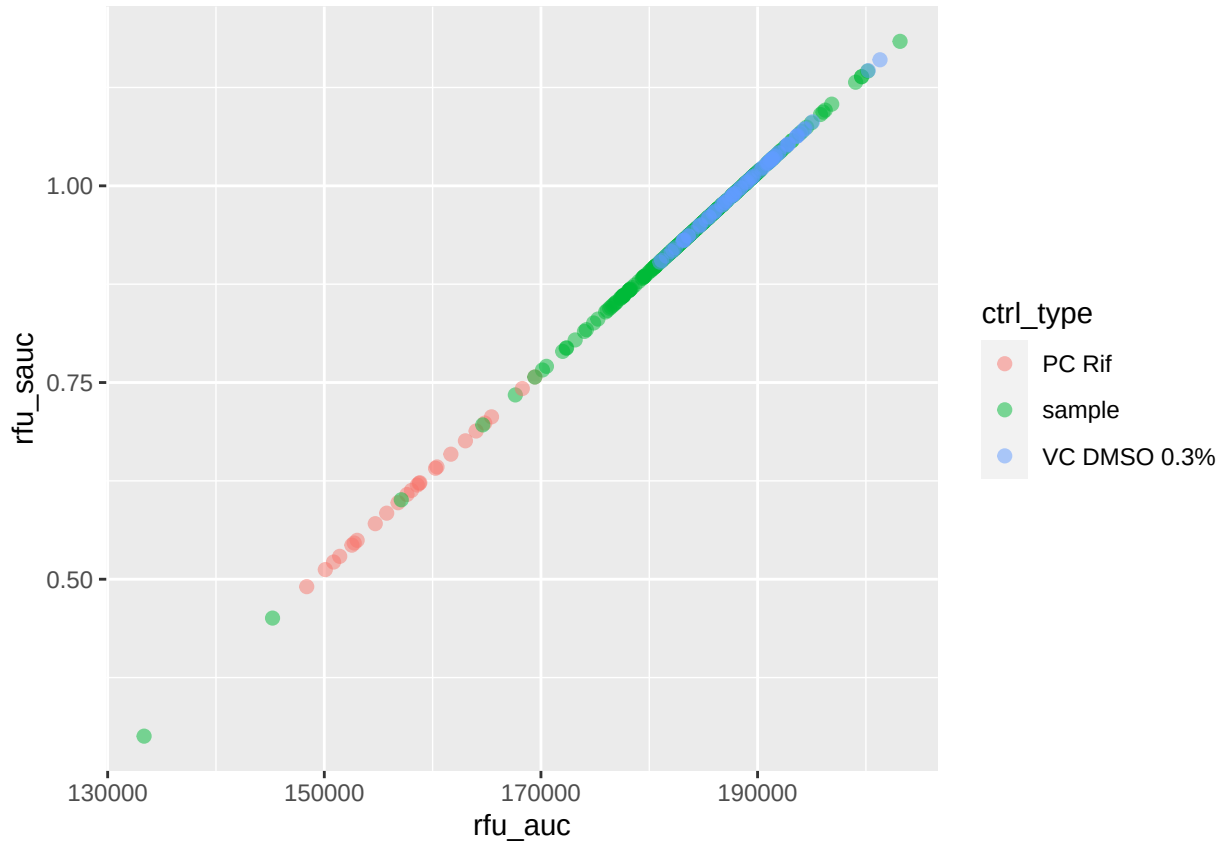


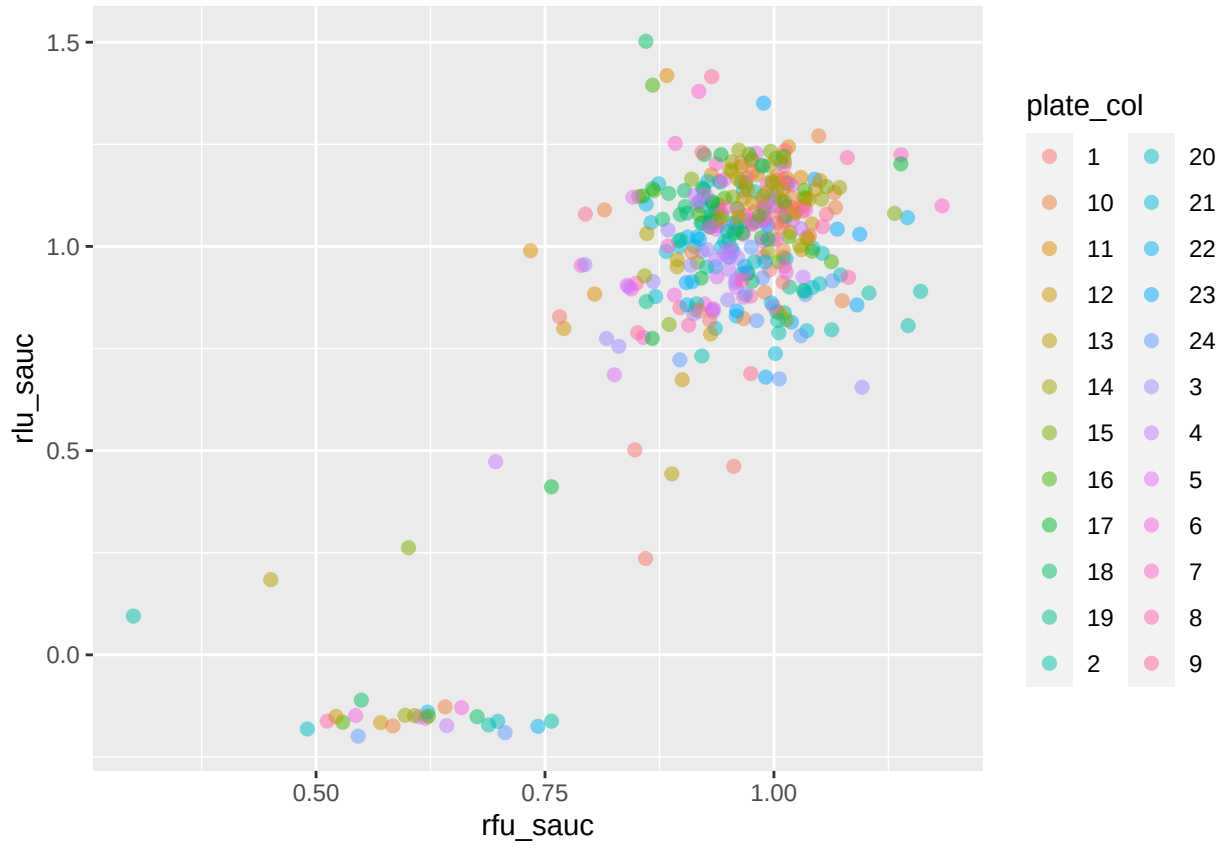

```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate05.xlsx, biorep 2 : "
## [1] 0.64
```

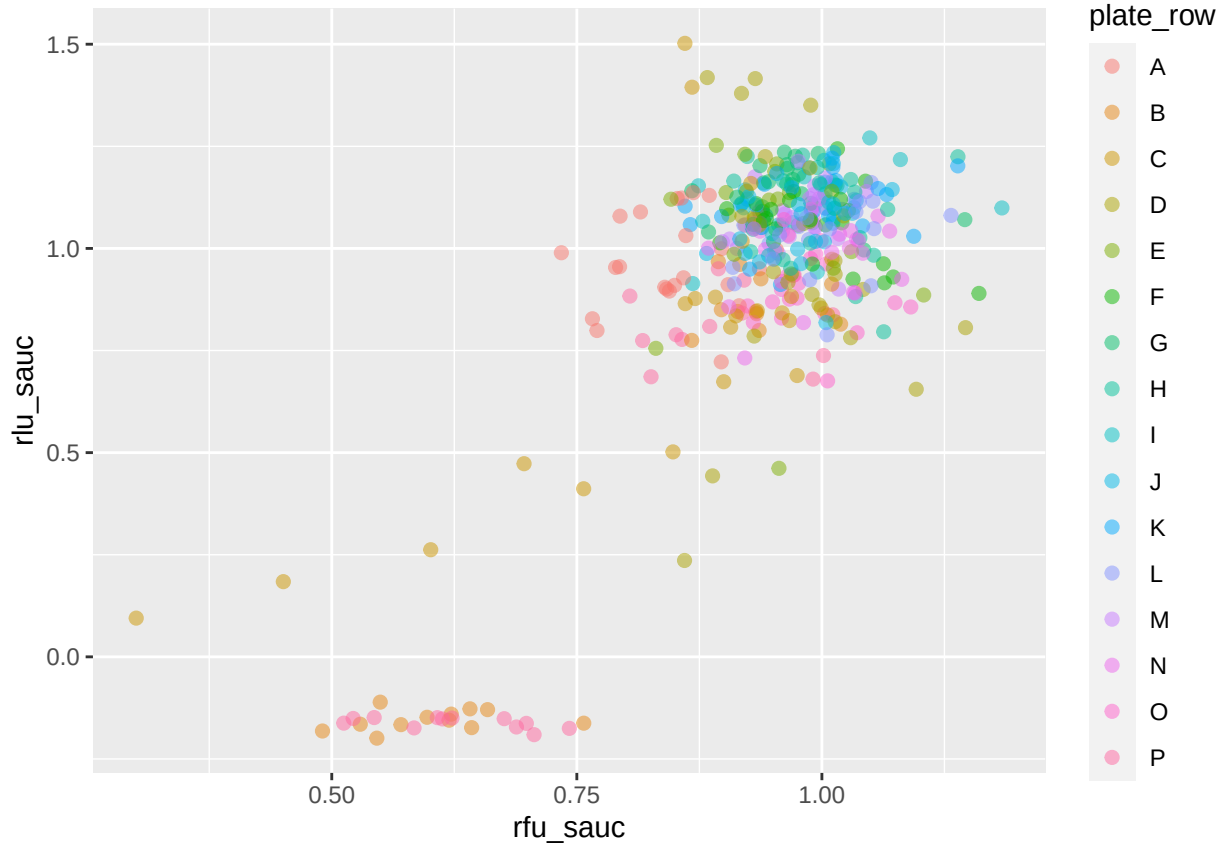

75000
50000
25000
rlu_auc
130000
150000
170000
190000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
0.50
0.75
1.00
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
25000
50000
75000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.00
0.75
0.50
rfu_sauc
130000
150000
170000
190000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

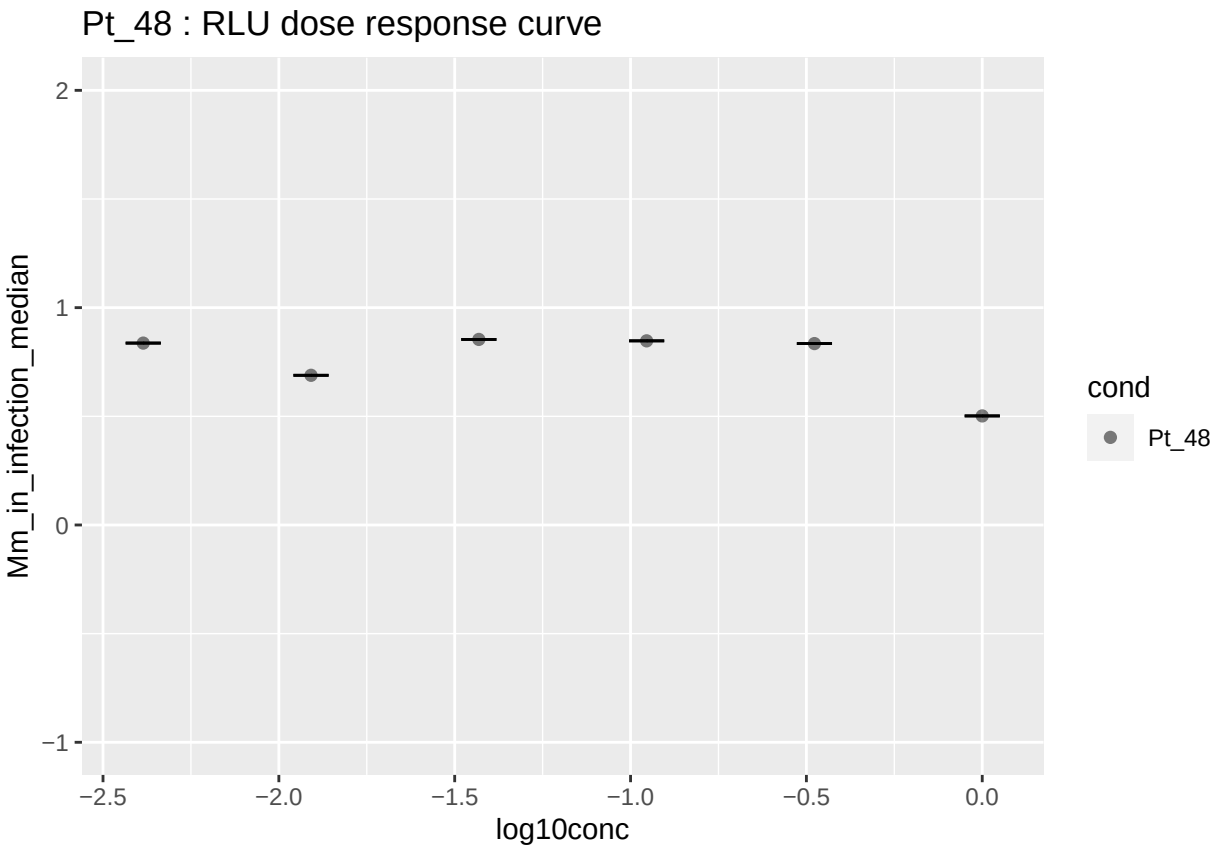

1.5
1.0
0.5
0.0
rlu_sauc
0.50
0.75
1.00
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

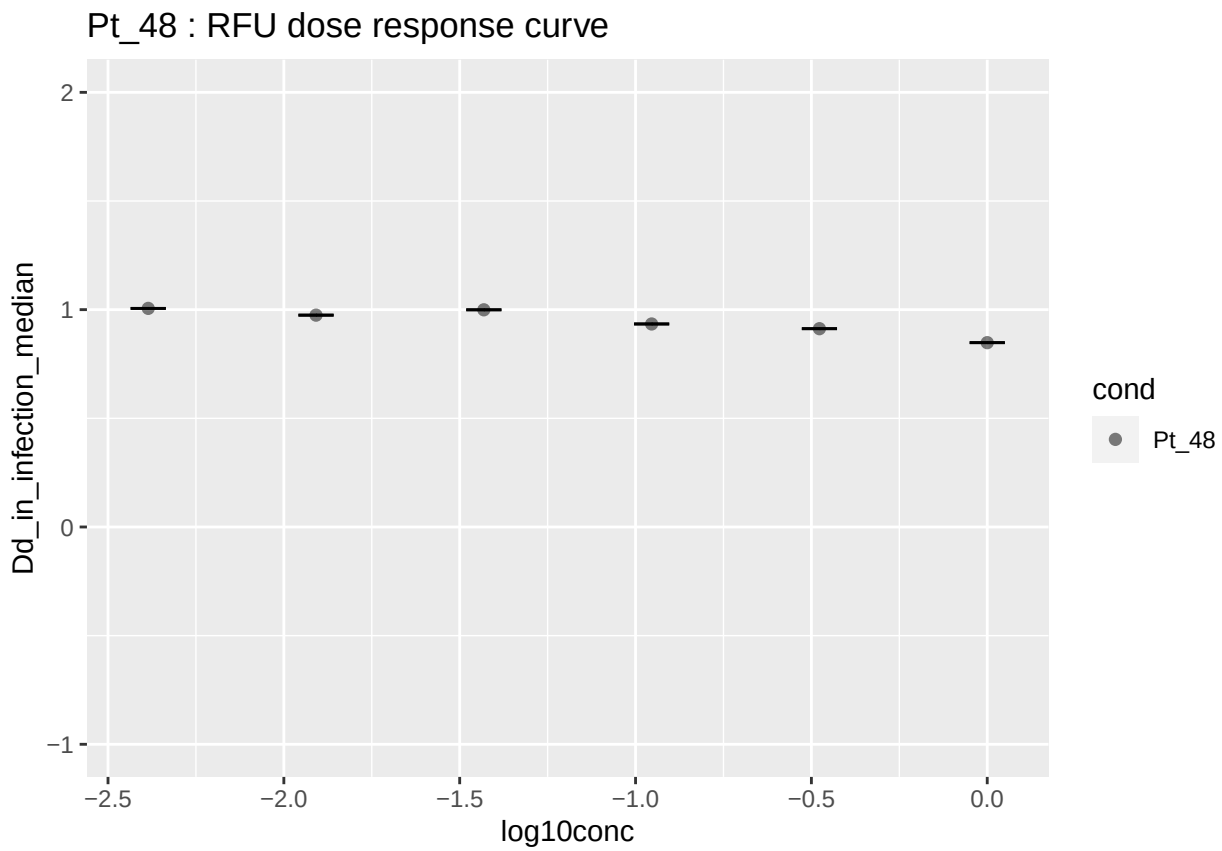


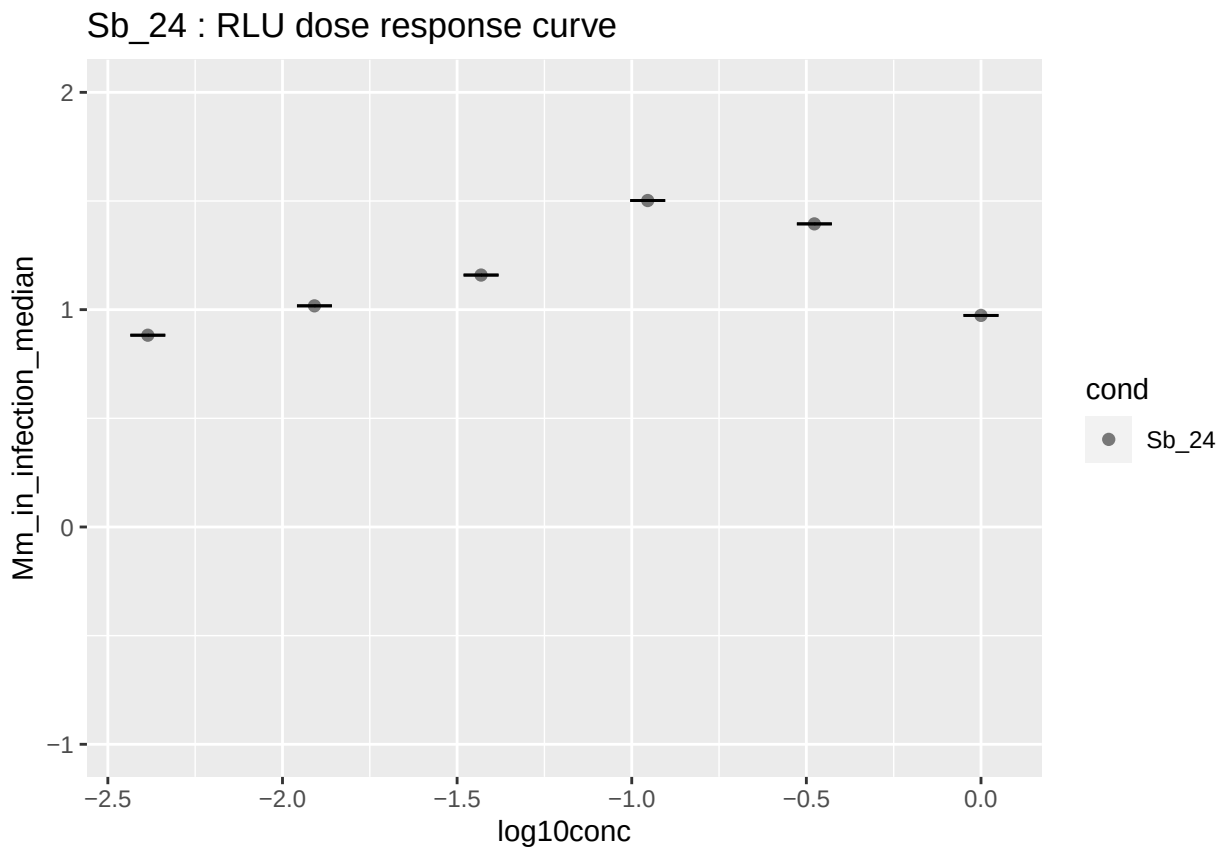

```
## [1] "Dose response curves over all bioreps within this plate"
```

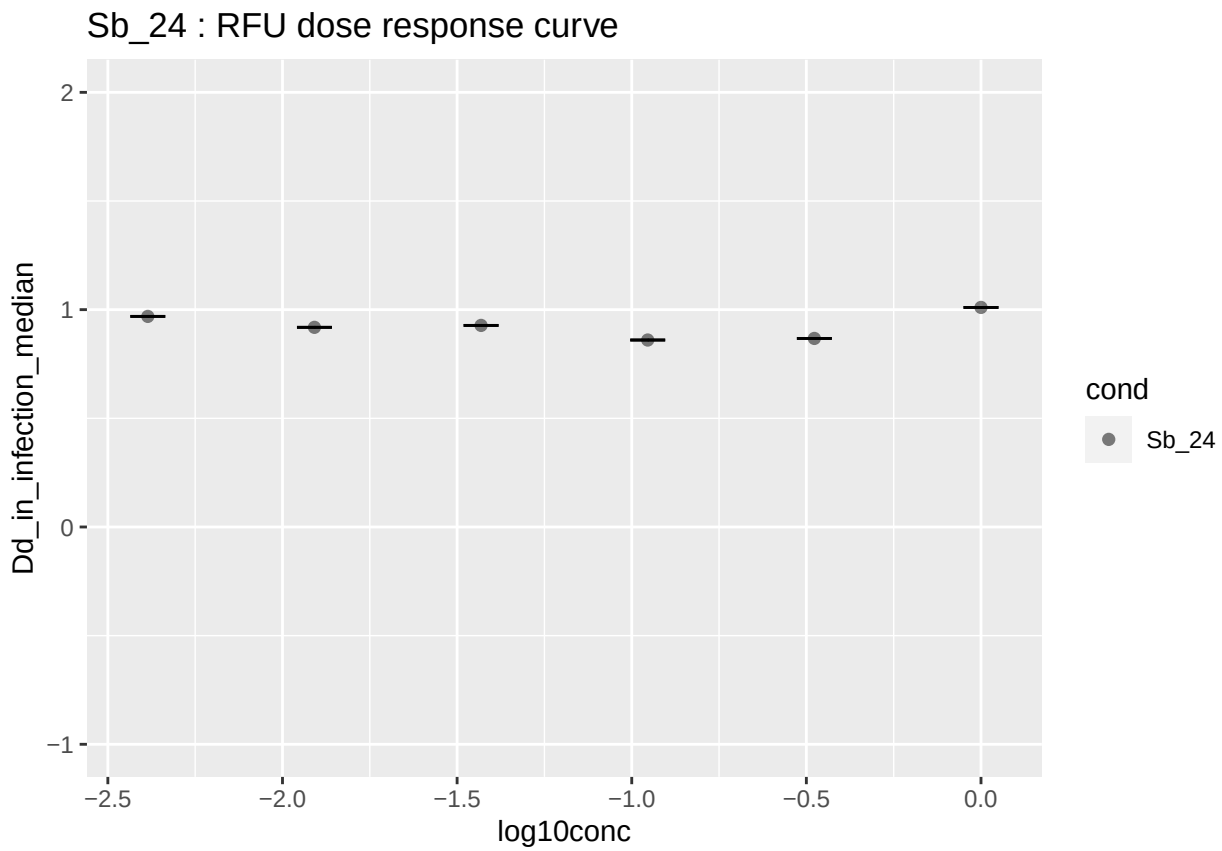
− : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

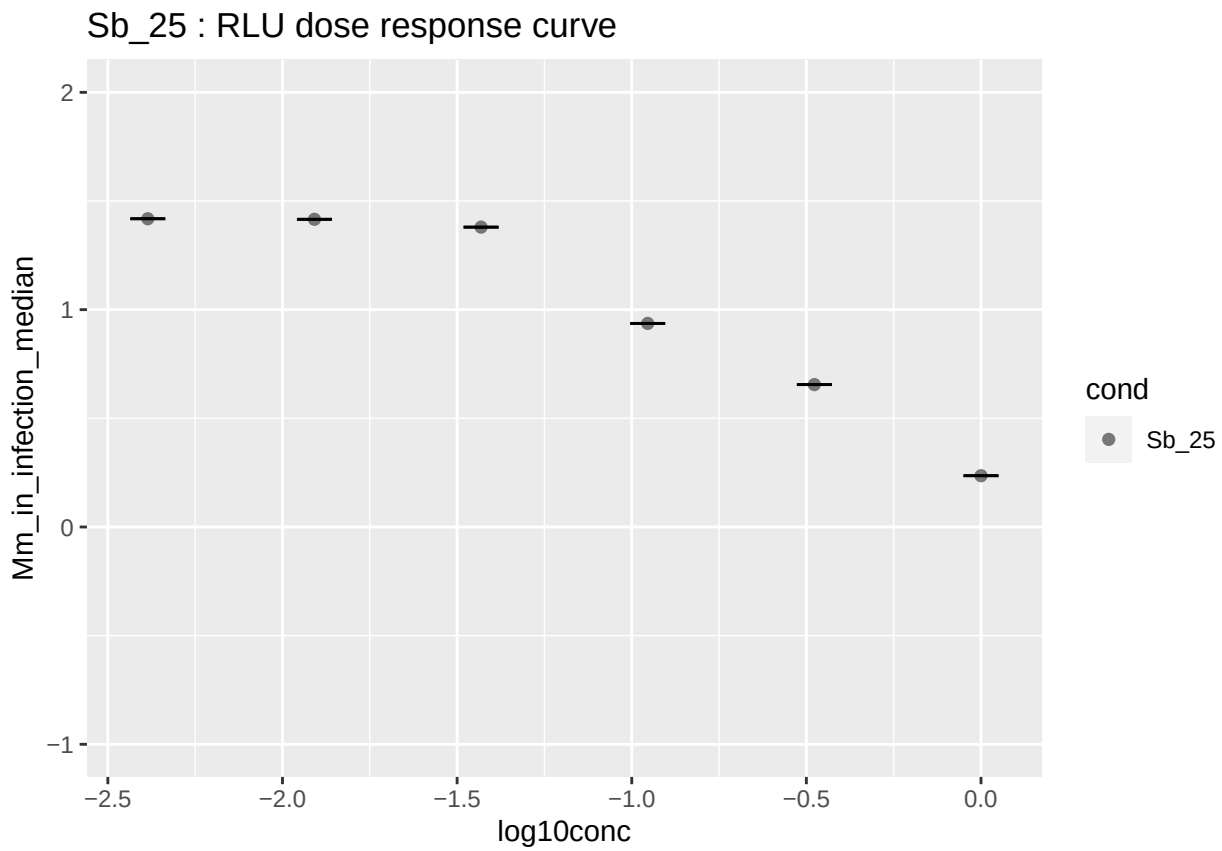
− : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

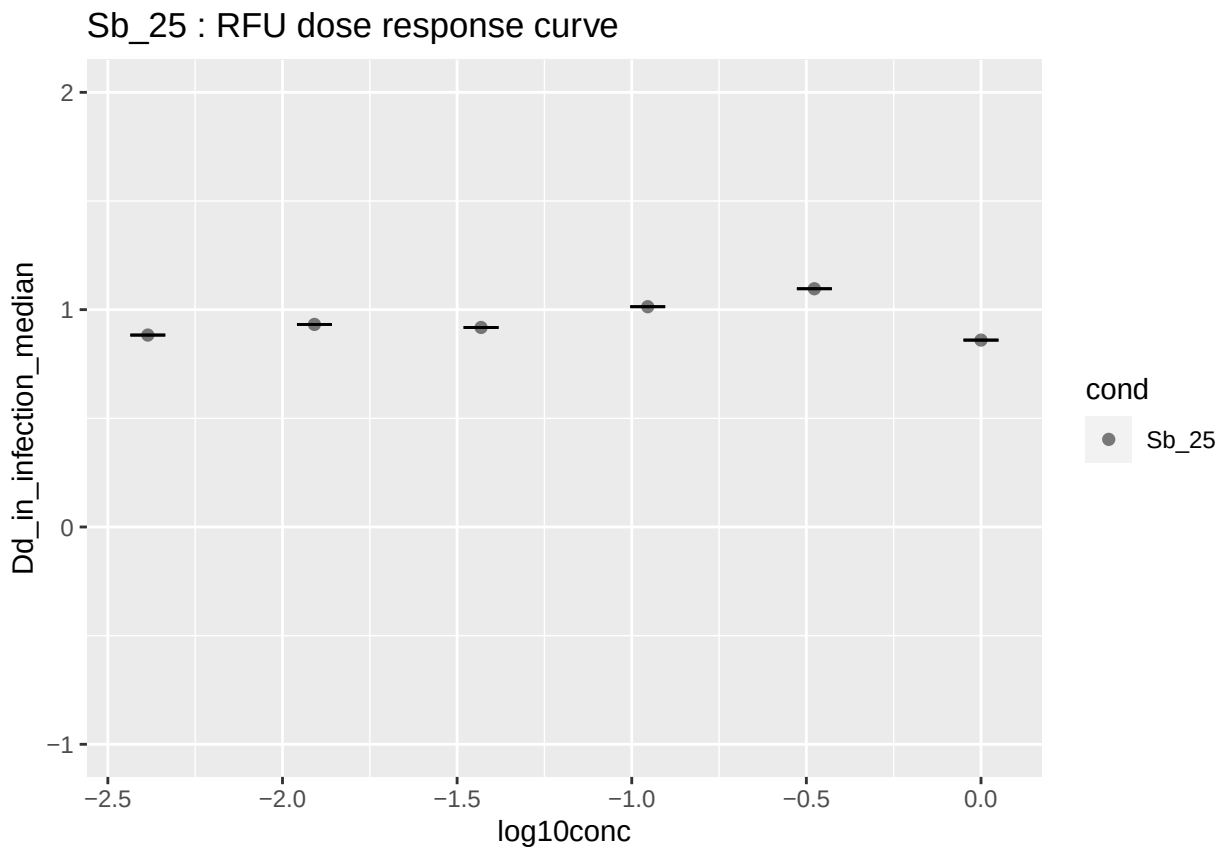

Pt_48 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

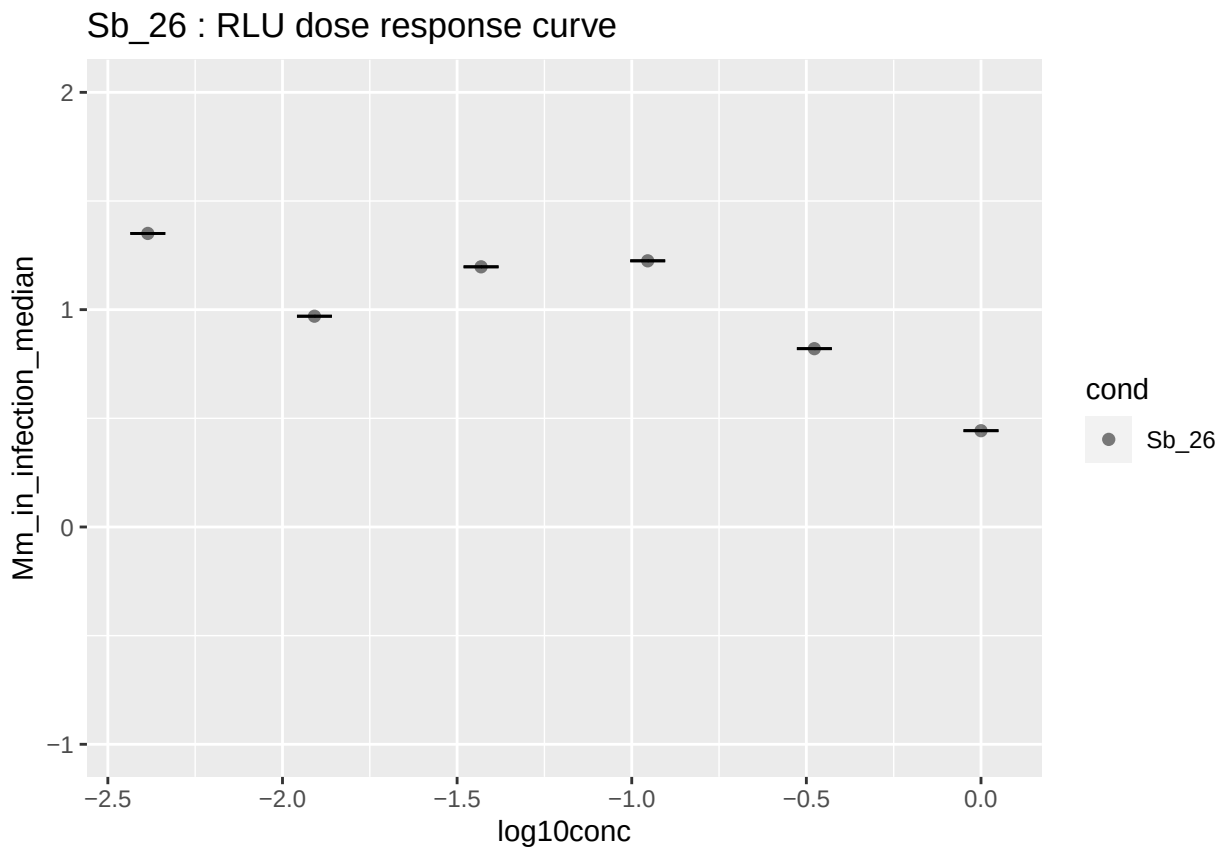

Pt_48 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

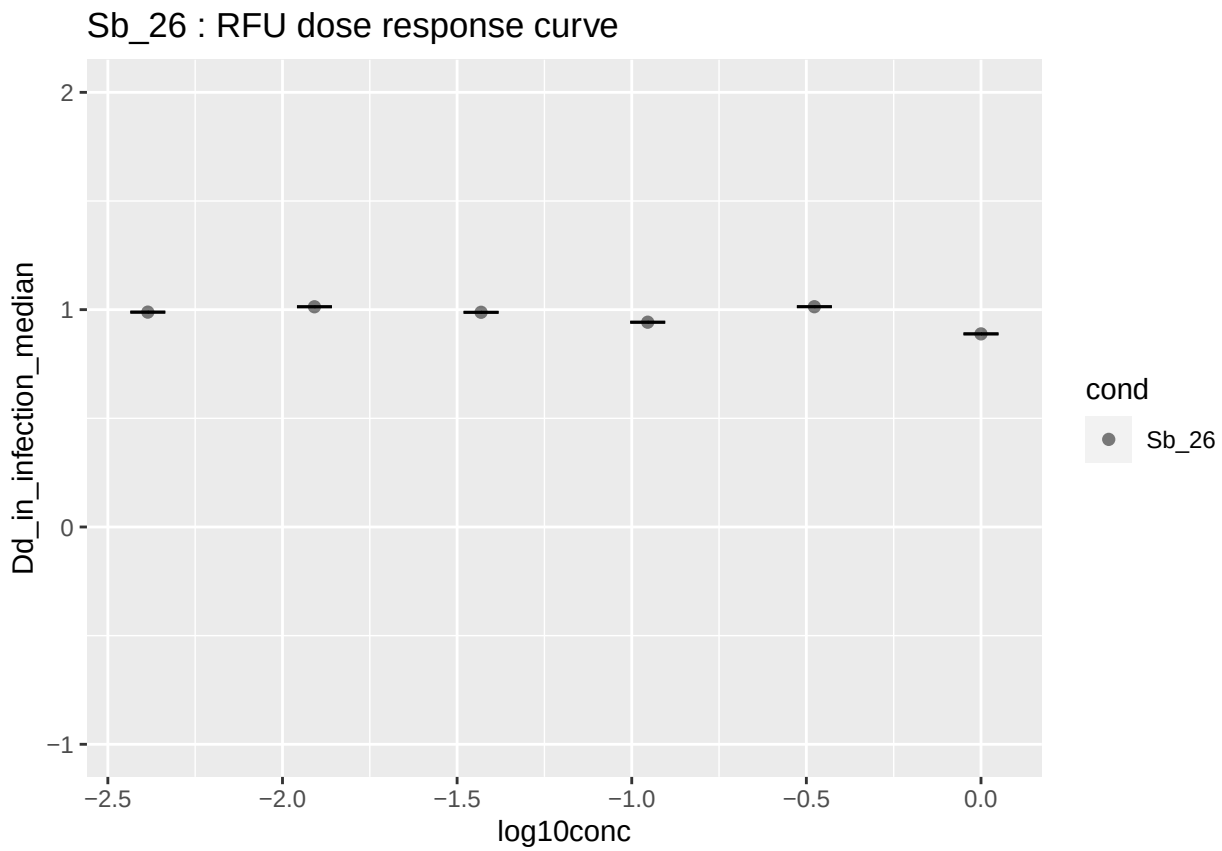

Sb_24 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

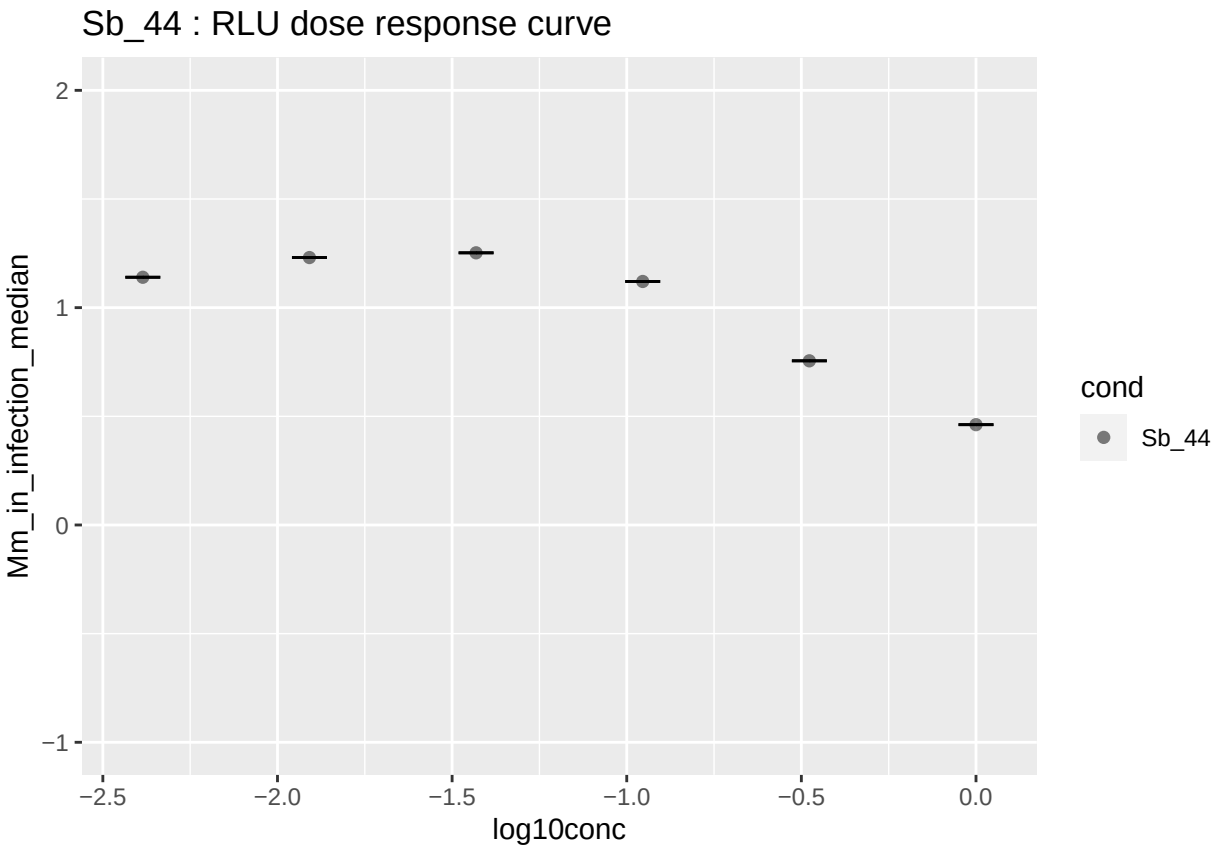

Sb_24 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

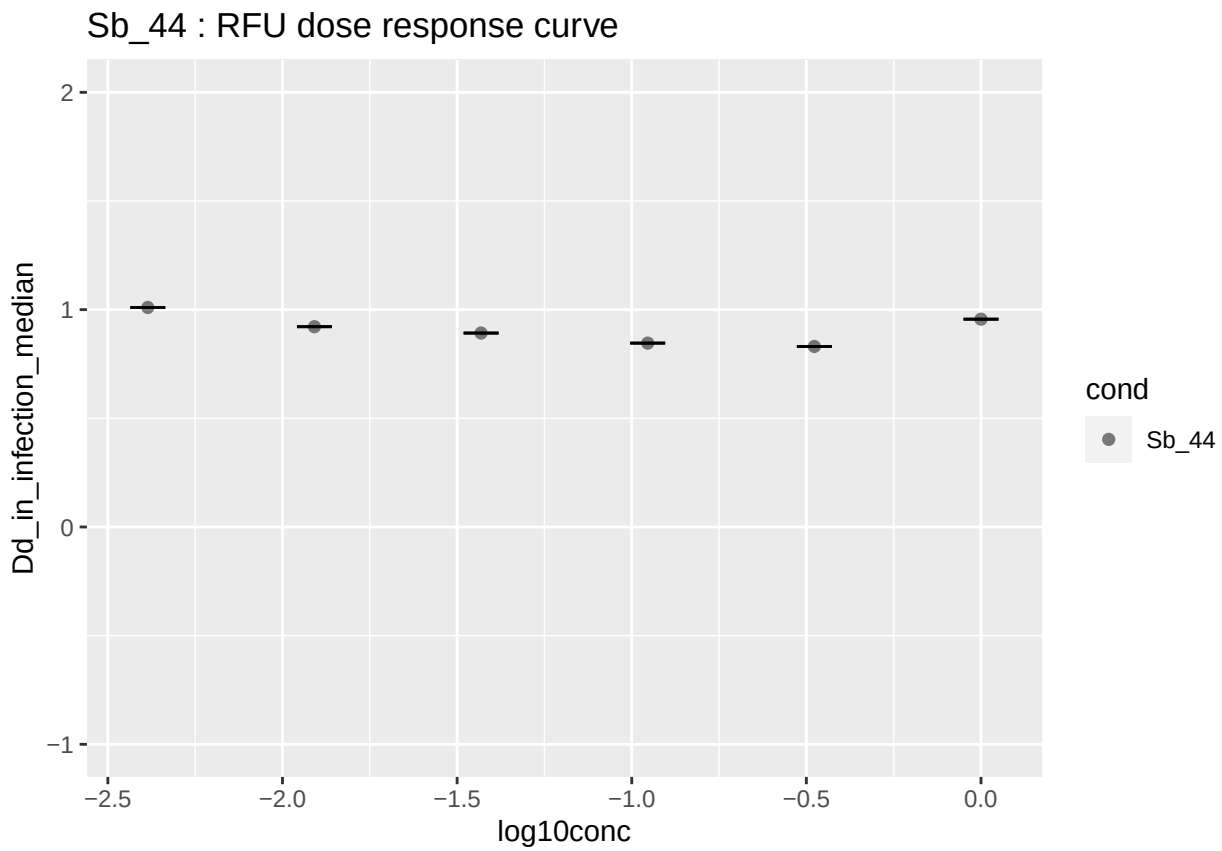

Sb_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

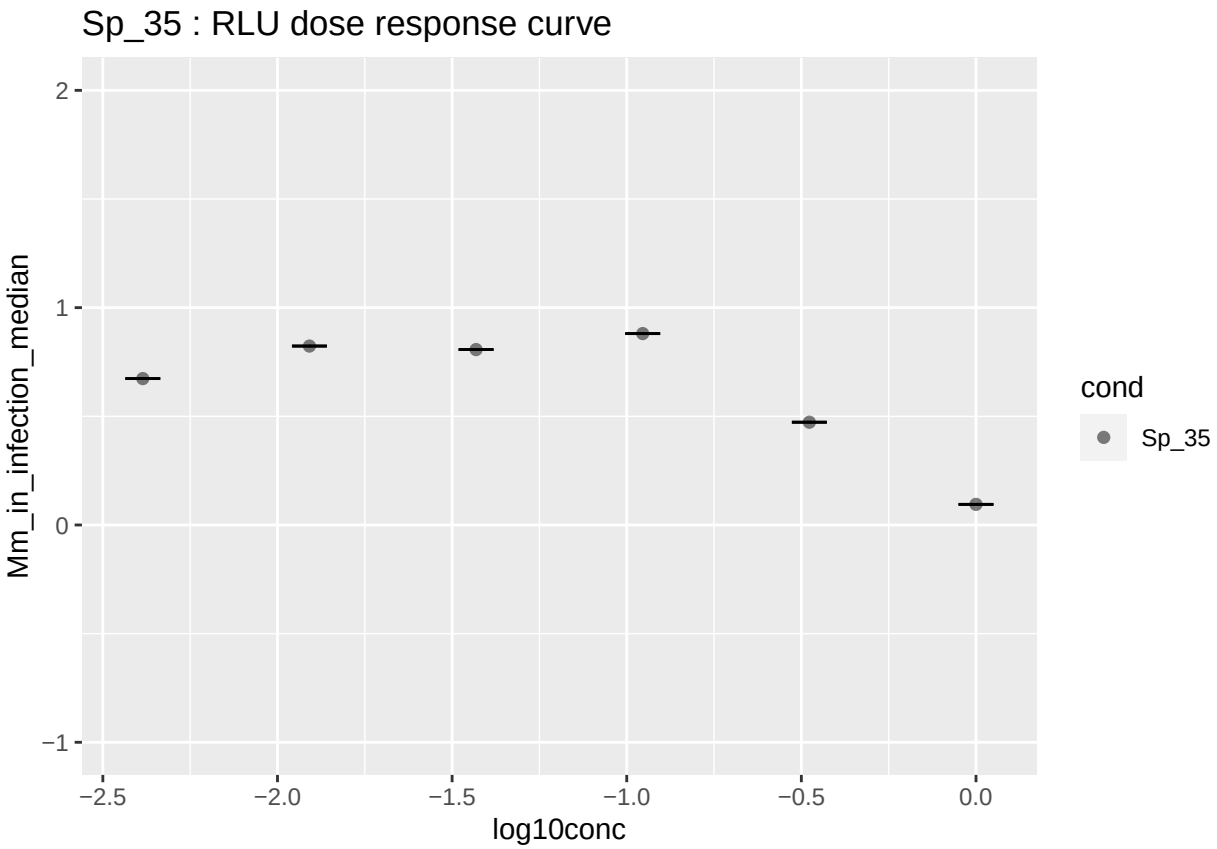

Sb_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

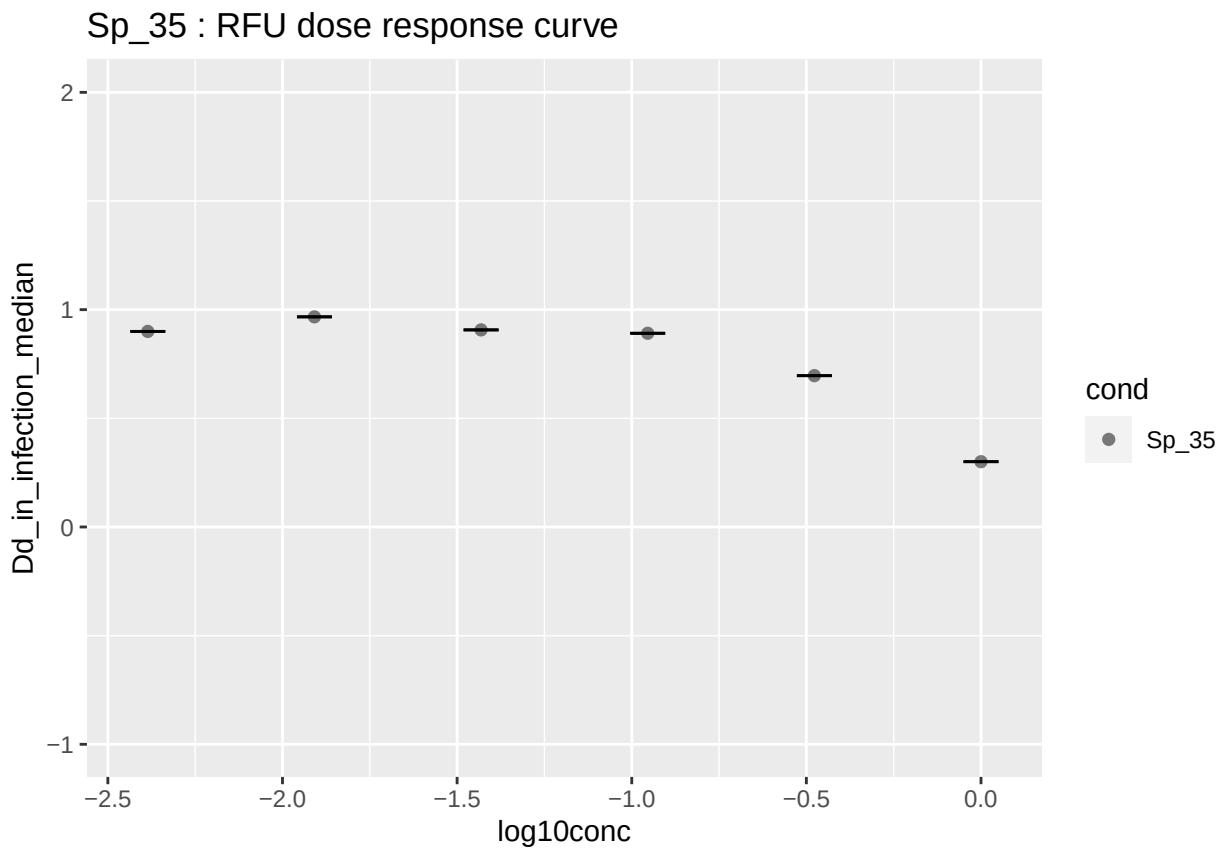

Sb_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

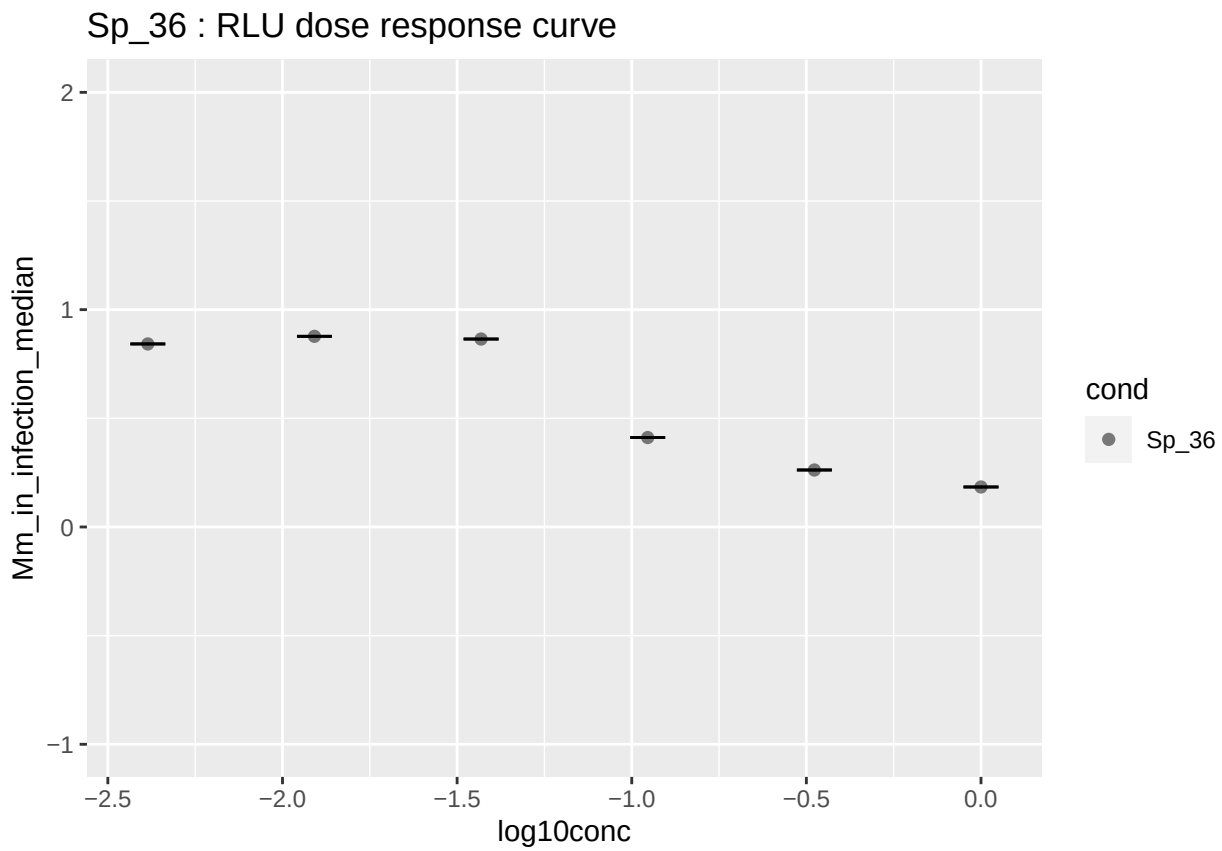

Sb_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

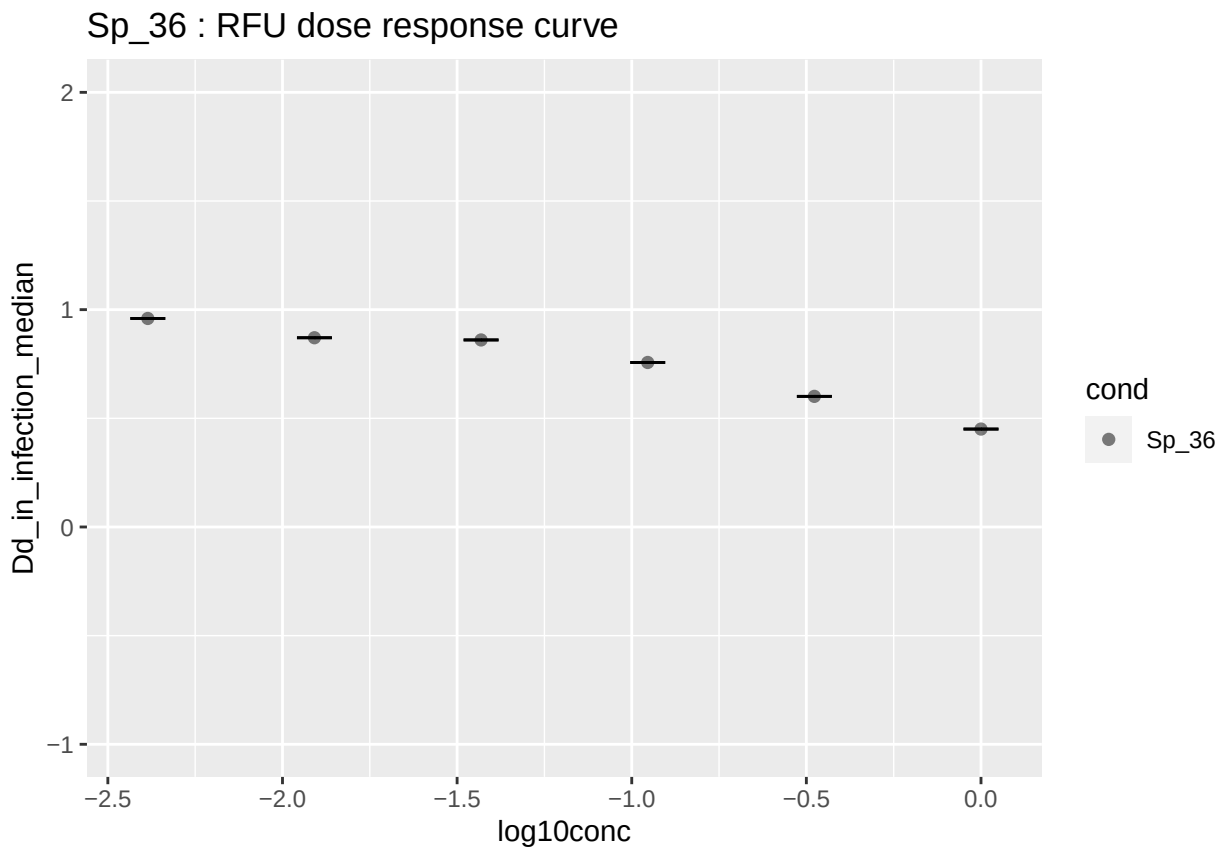

Sb_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

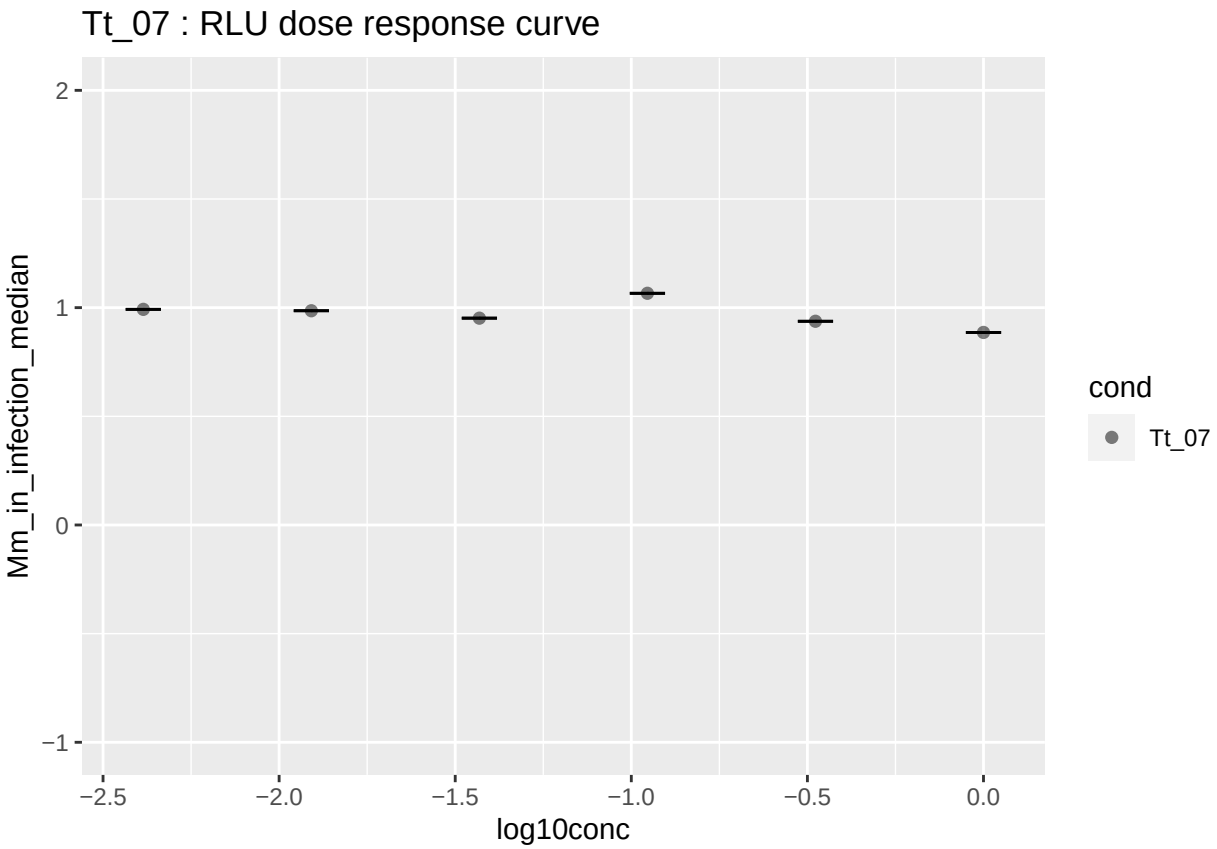

Sb_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

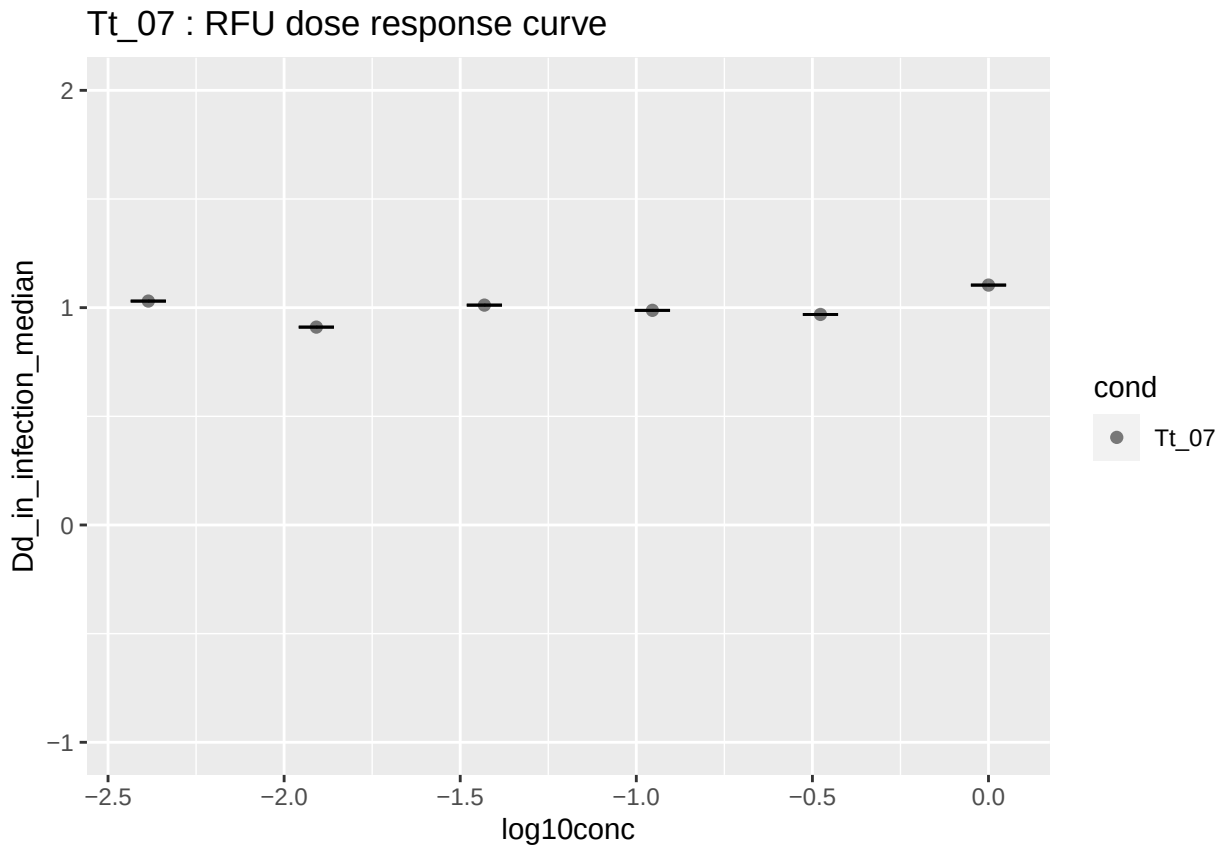

Sp_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35


Sp_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35

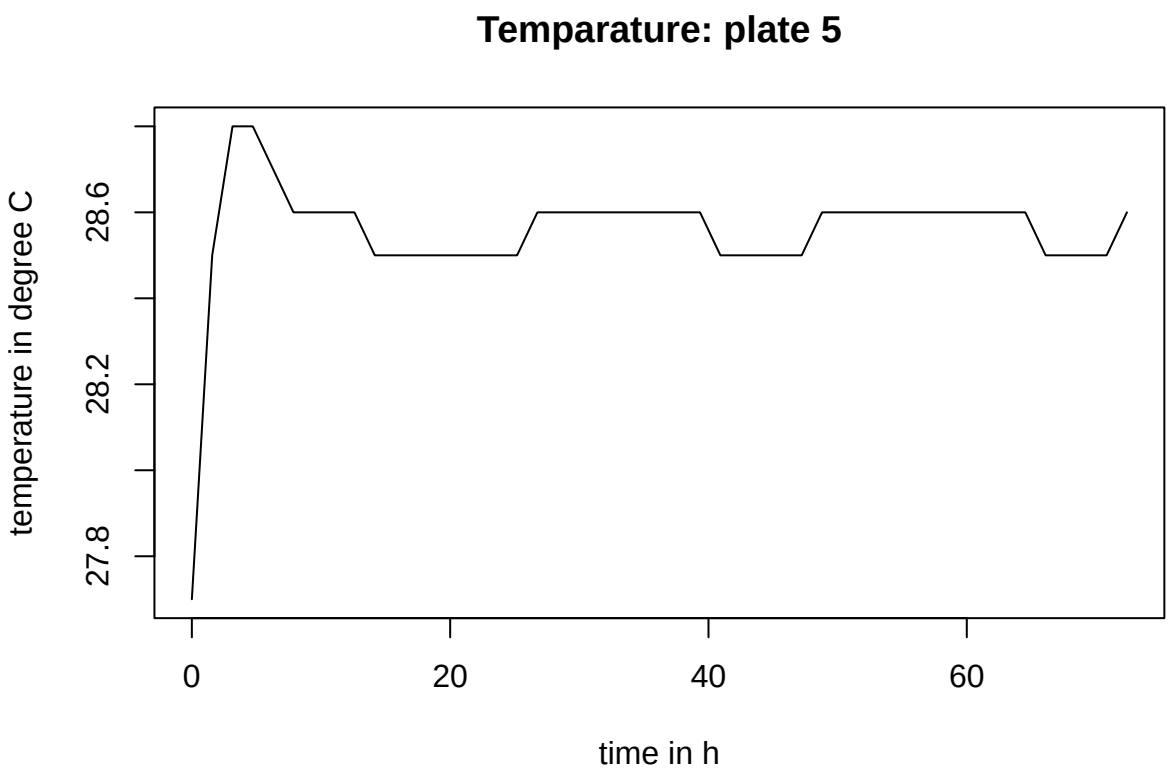

Sp_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36


Sp_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36

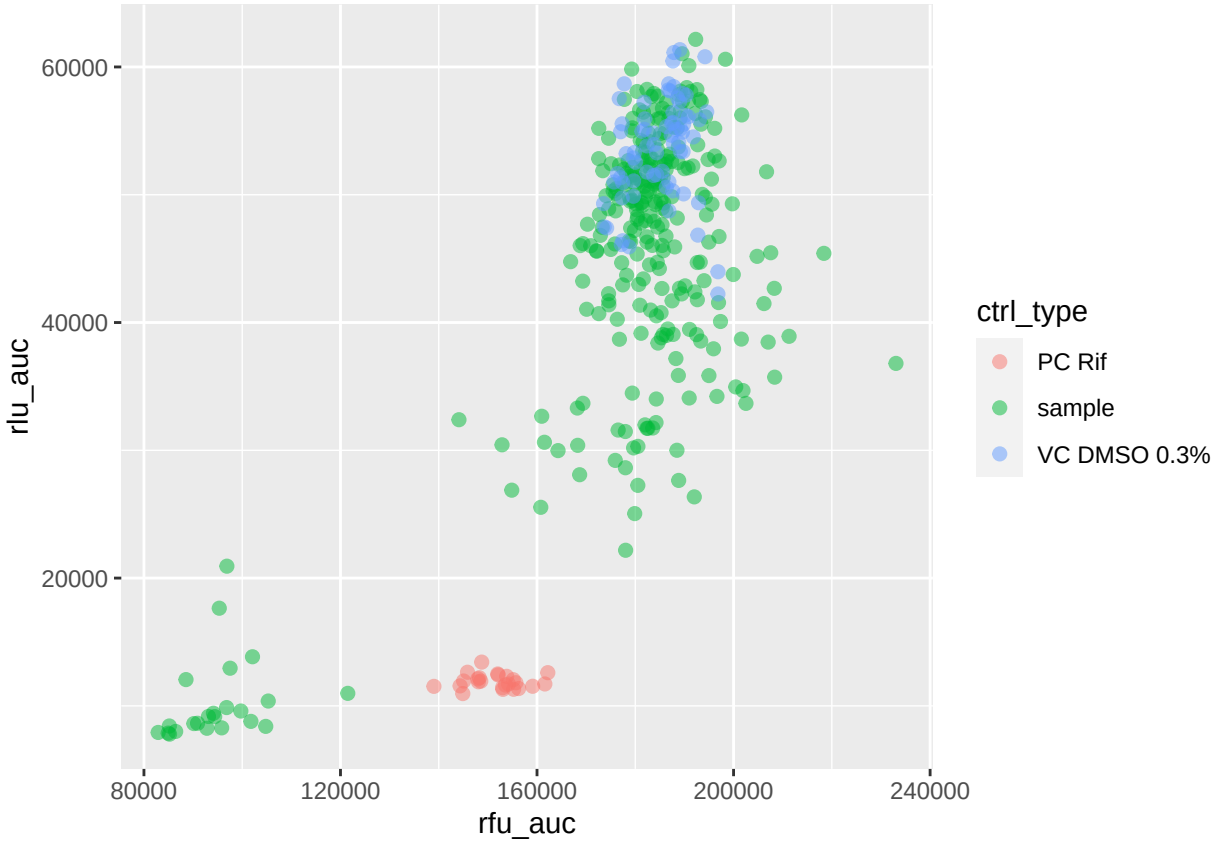

Tt_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Tt_07

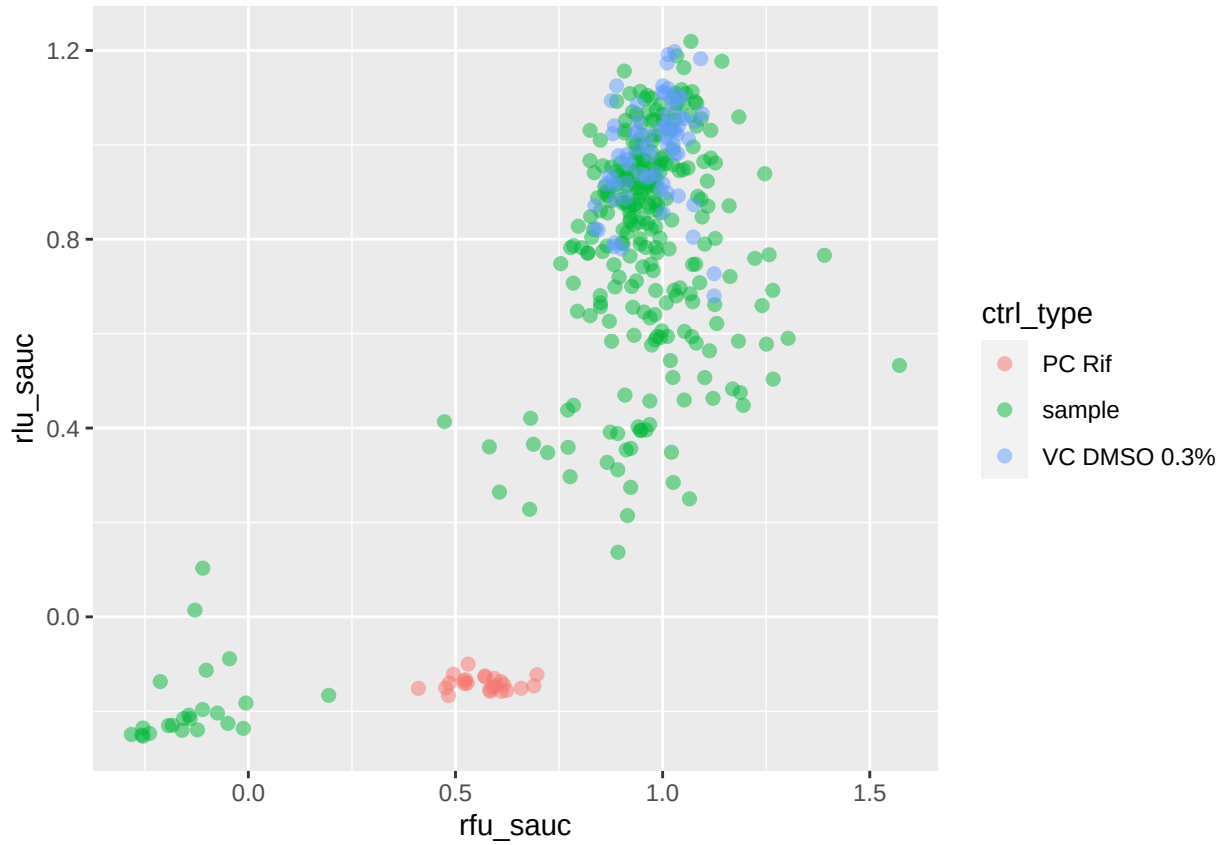


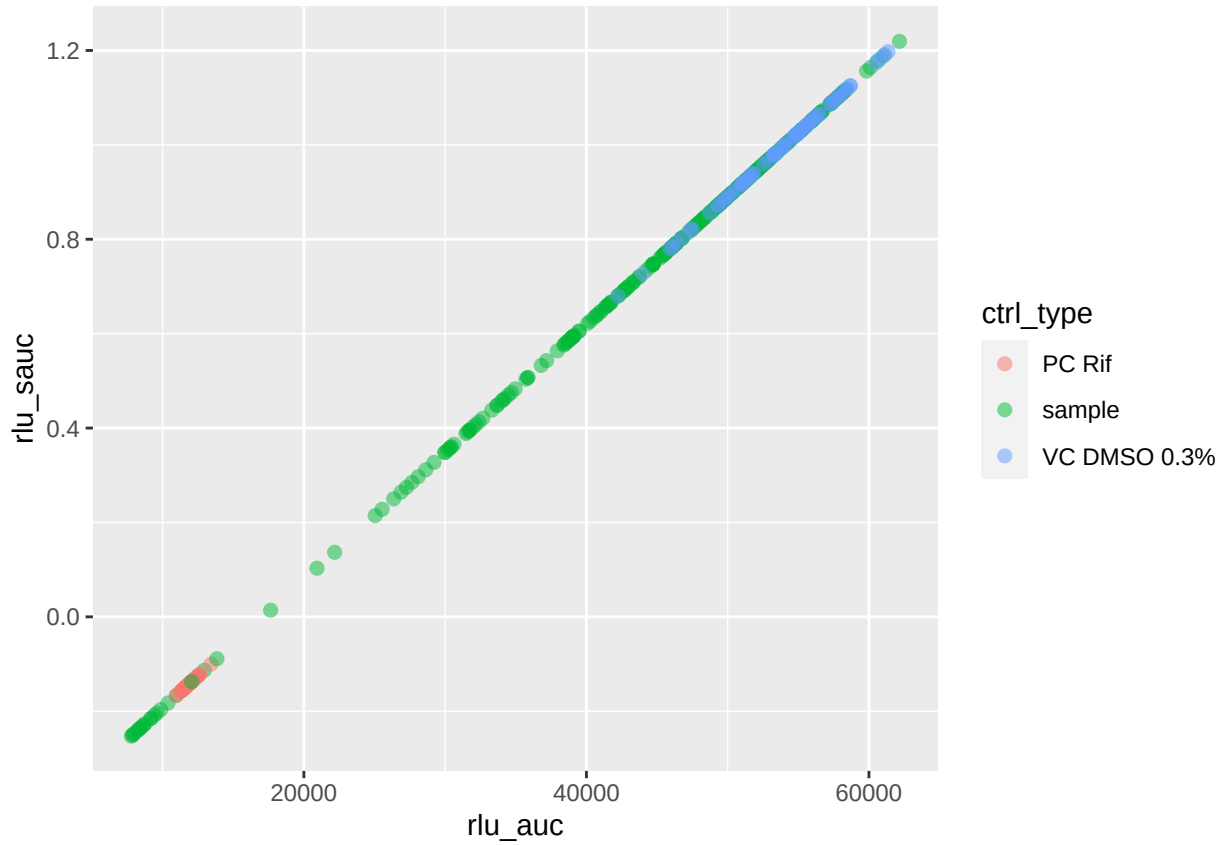

```
## [1] "analysis for plate06.xlsx"
```

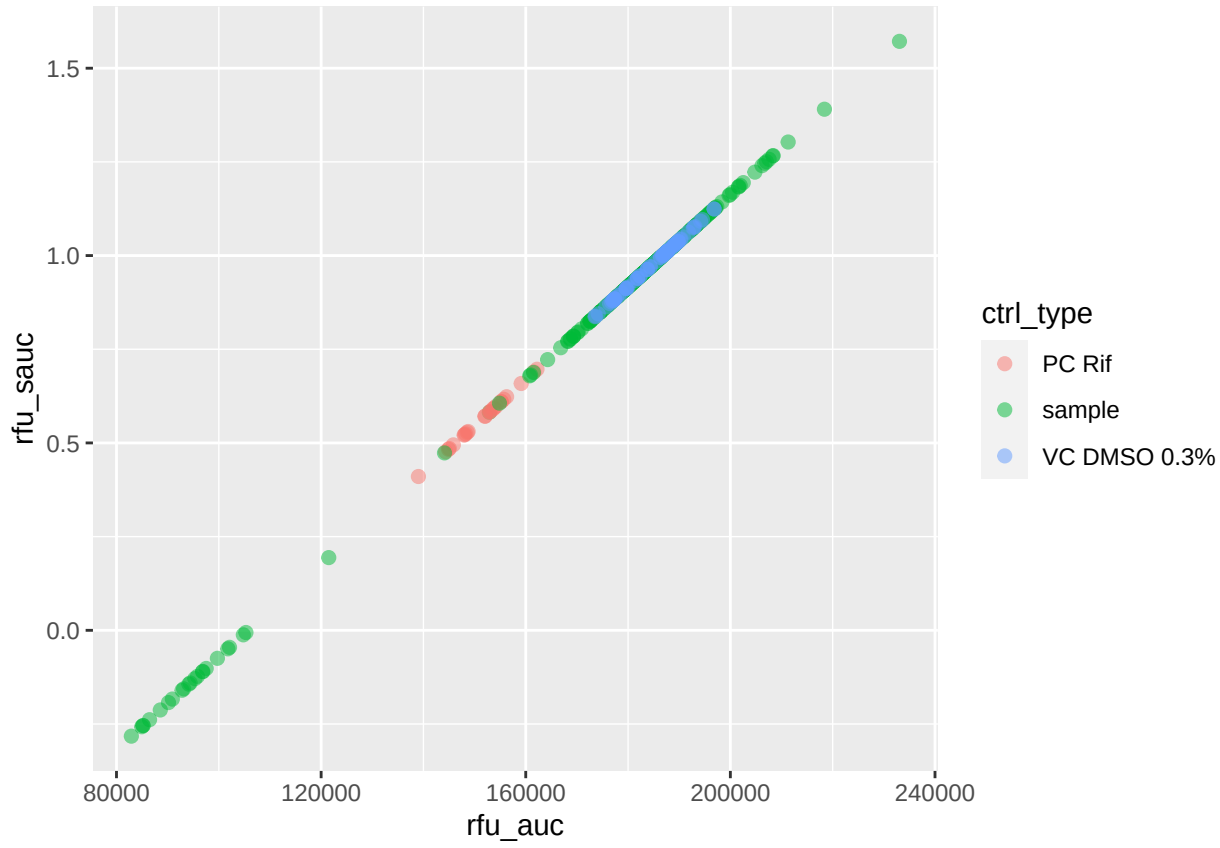


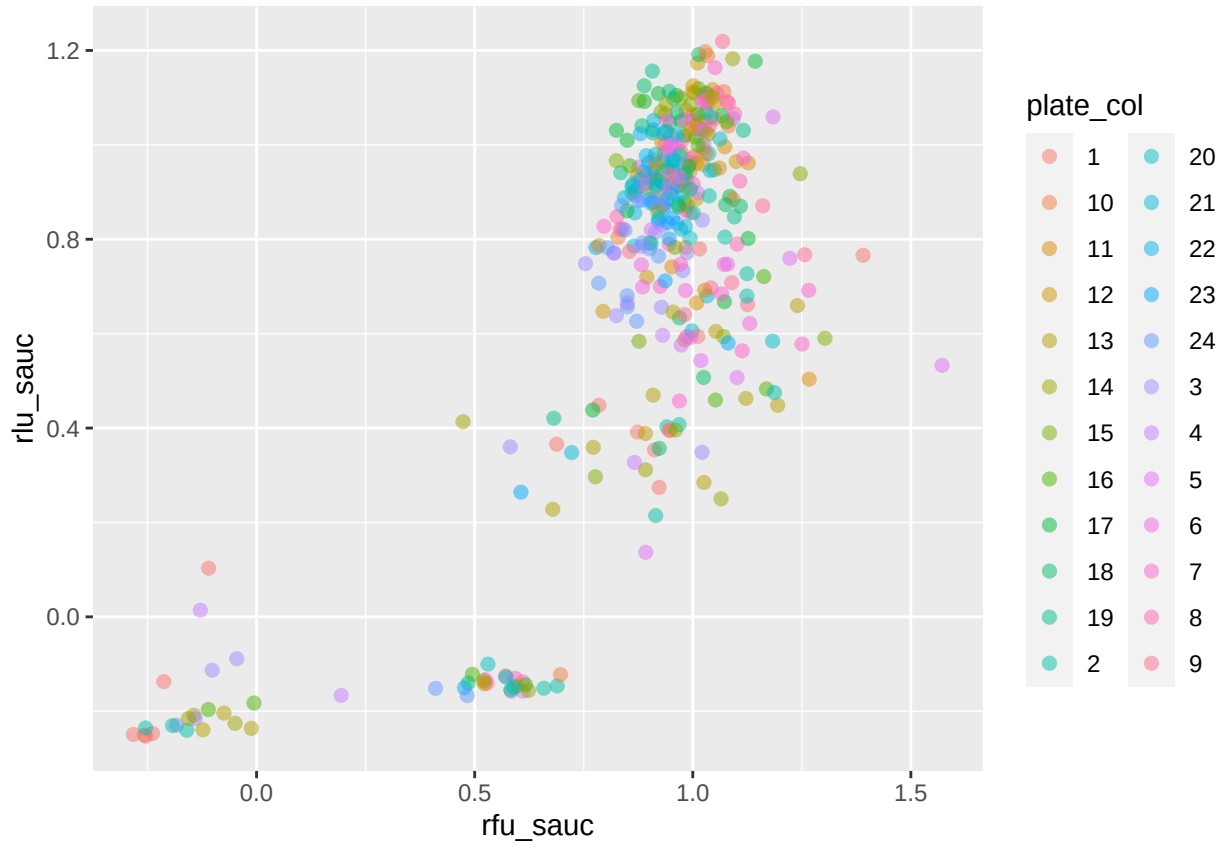

```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate06.xlsx, biorep 3 : "
## [1] 0.69
```

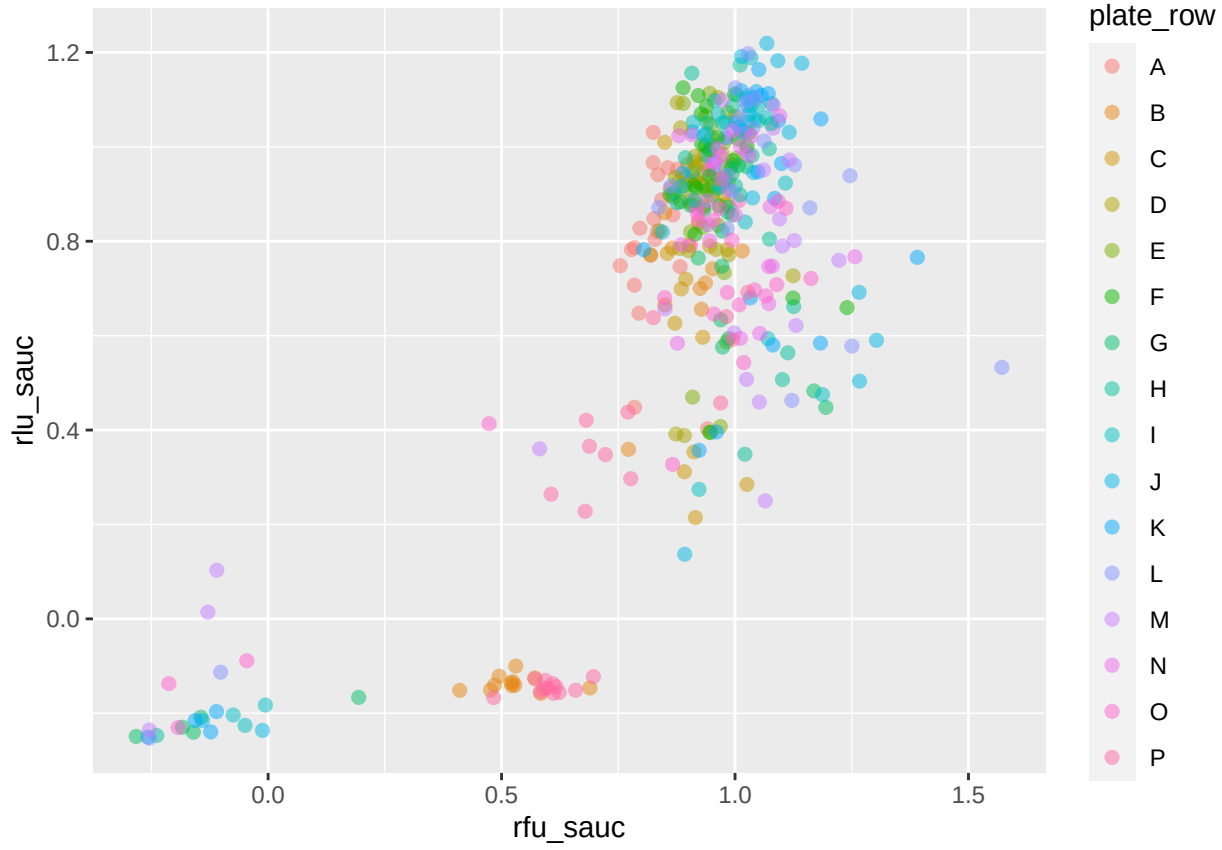

60000
40000
20000
rlu_auc
80000
120000
160000
200000
240000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.2
0.8
0.4
0.0
rlu_sauc
0.0
0.5
1.0
1.5
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

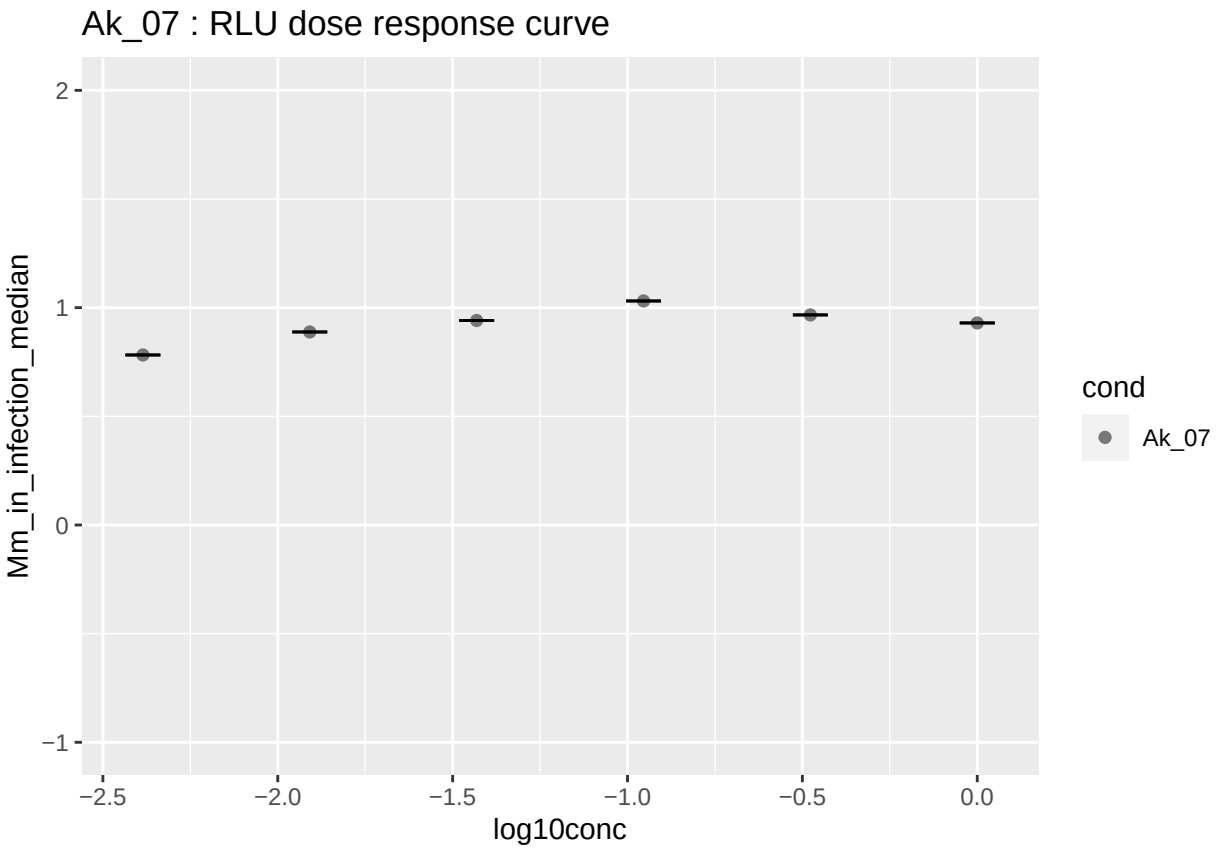

1.2
0.8
0.4
0.0
rlu_sauc
20000
40000
60000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

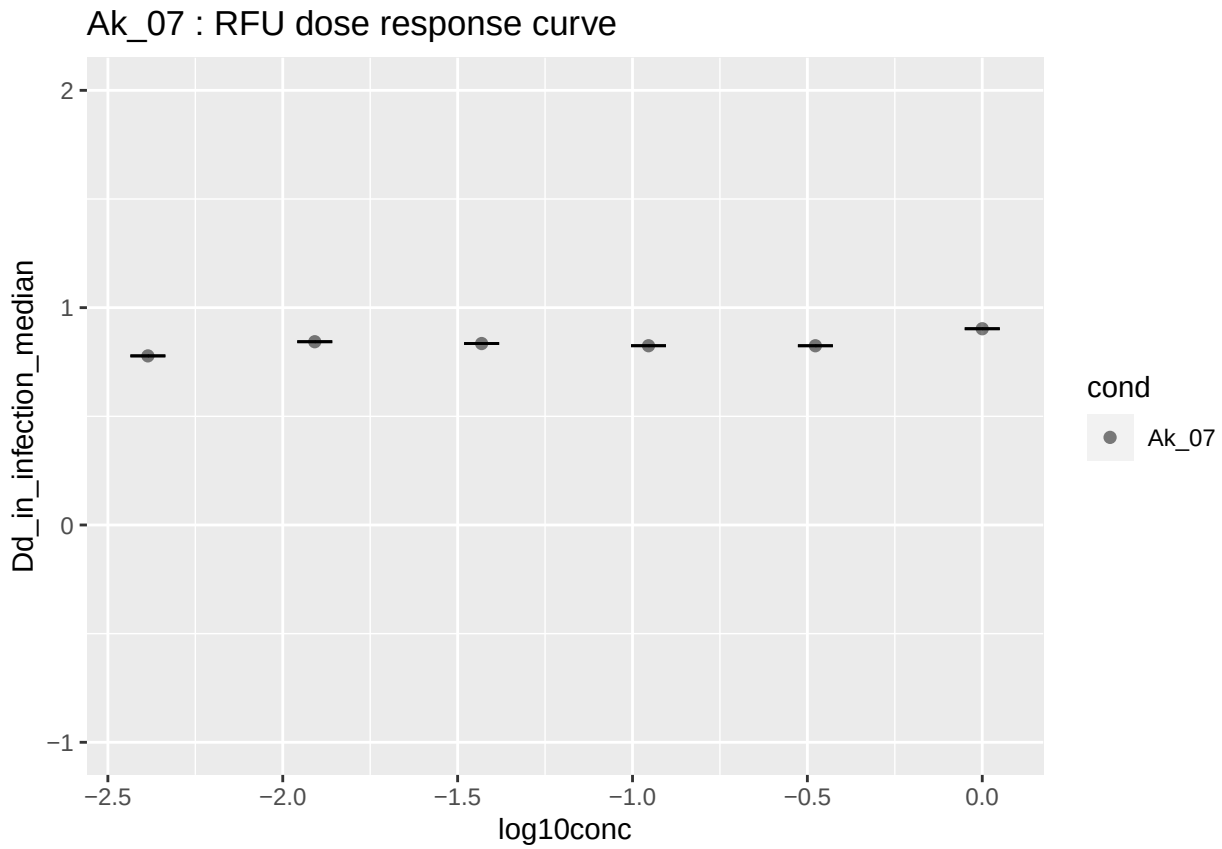

1.5
1.0
0.5
0.0
rfu_sauc
80000
120000
160000
200000
240000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

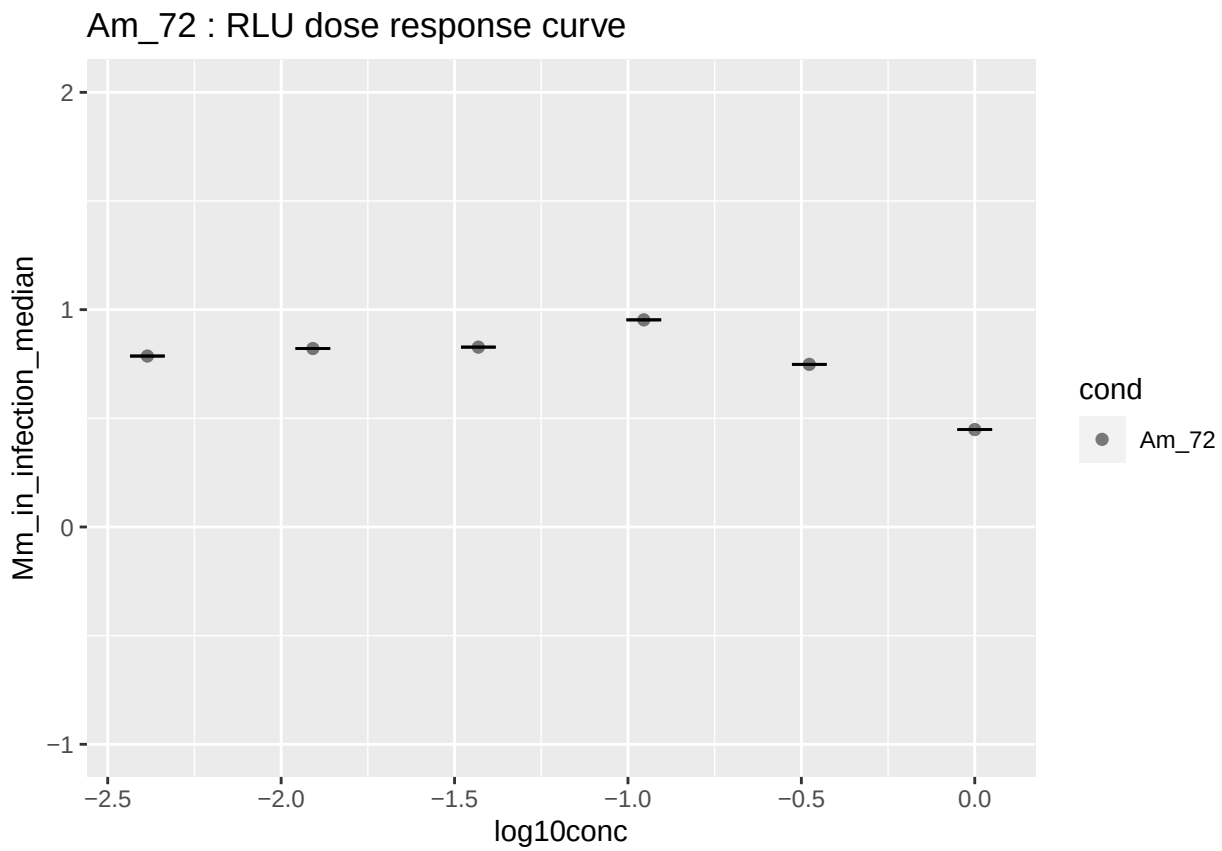

1.2
0.8
0.4
0.0
rlu_sauc
0.0
0.5
1.0
1.5
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

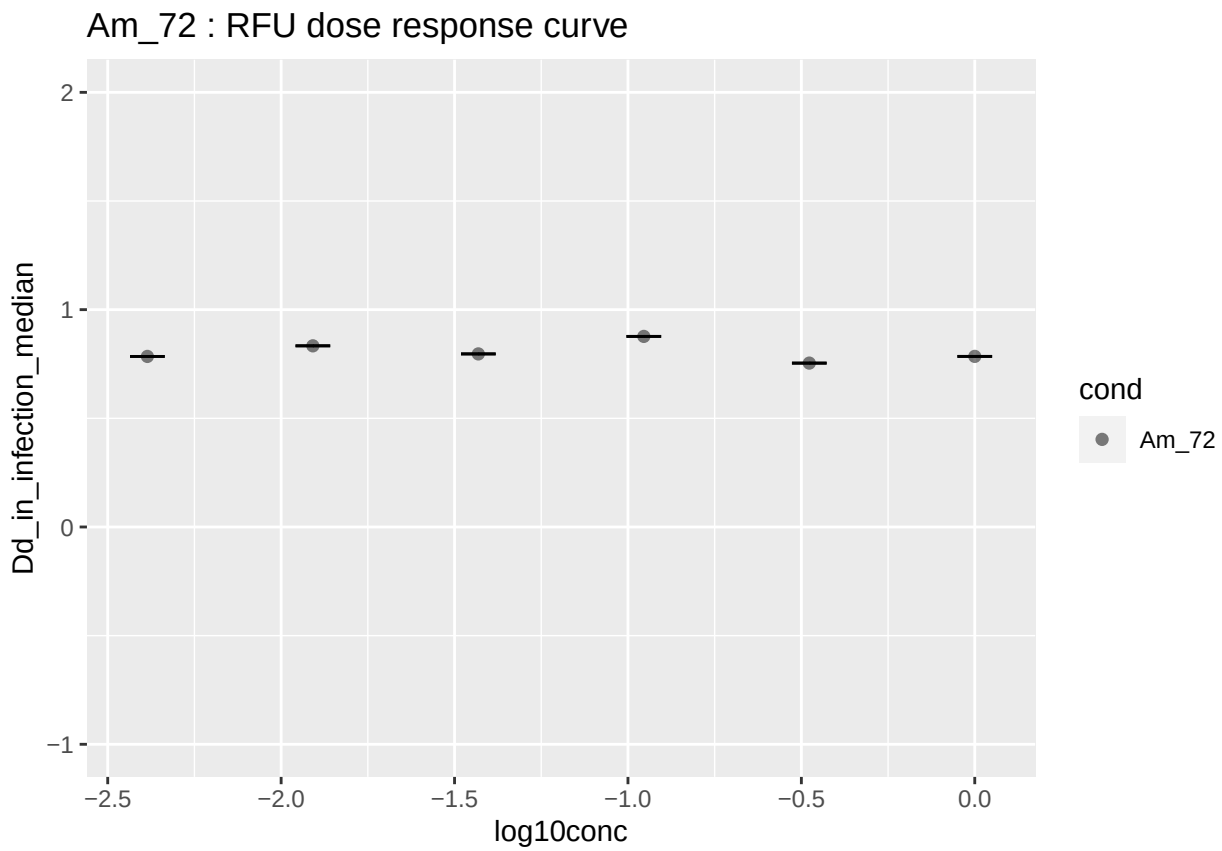


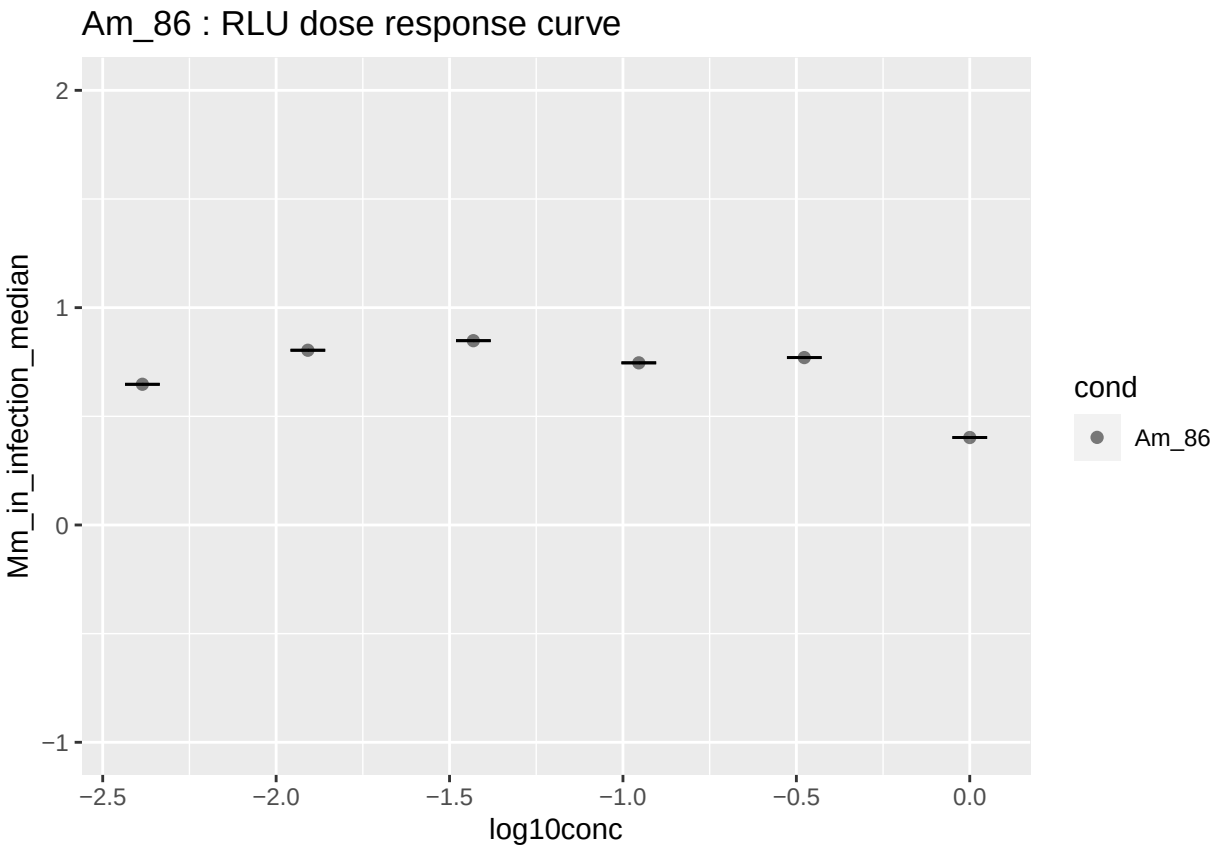

```
## [1] "Dose response curves over all bioreps within this plate"
```

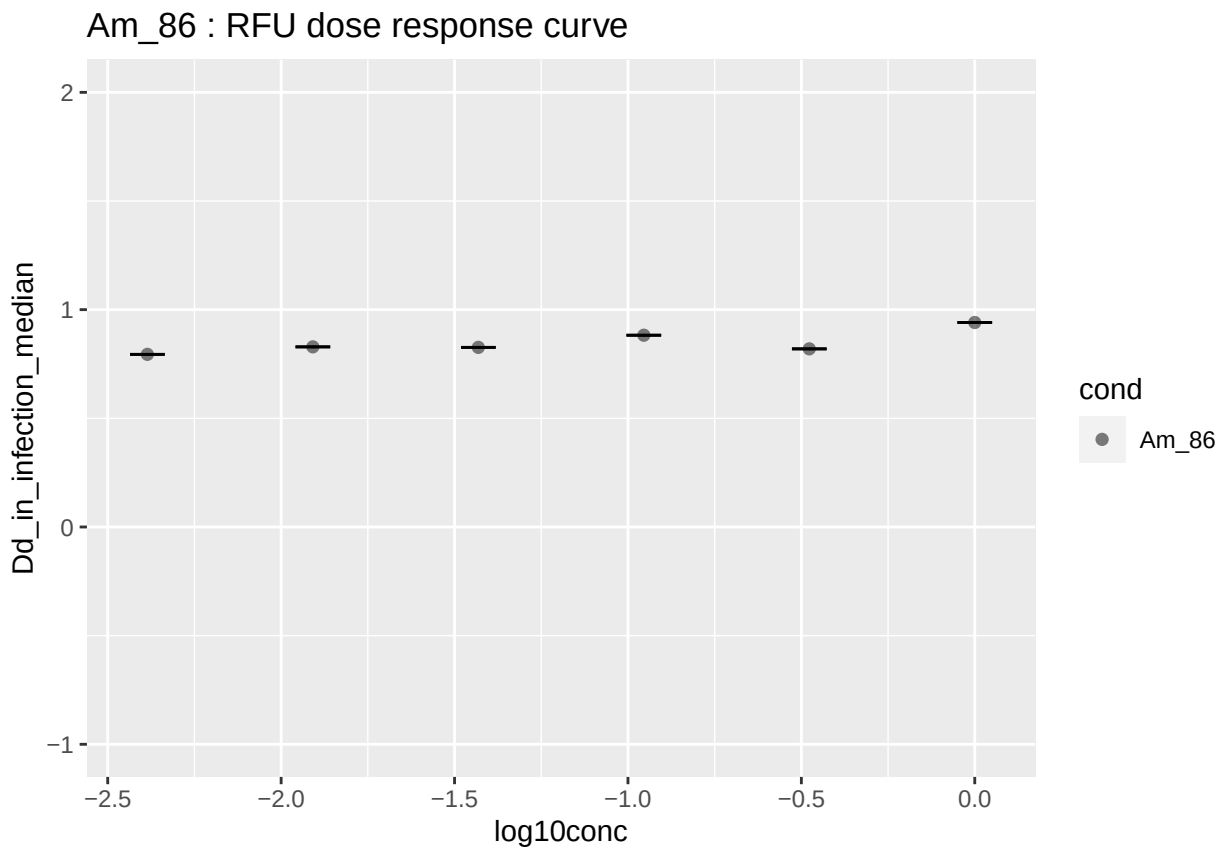

Ak_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

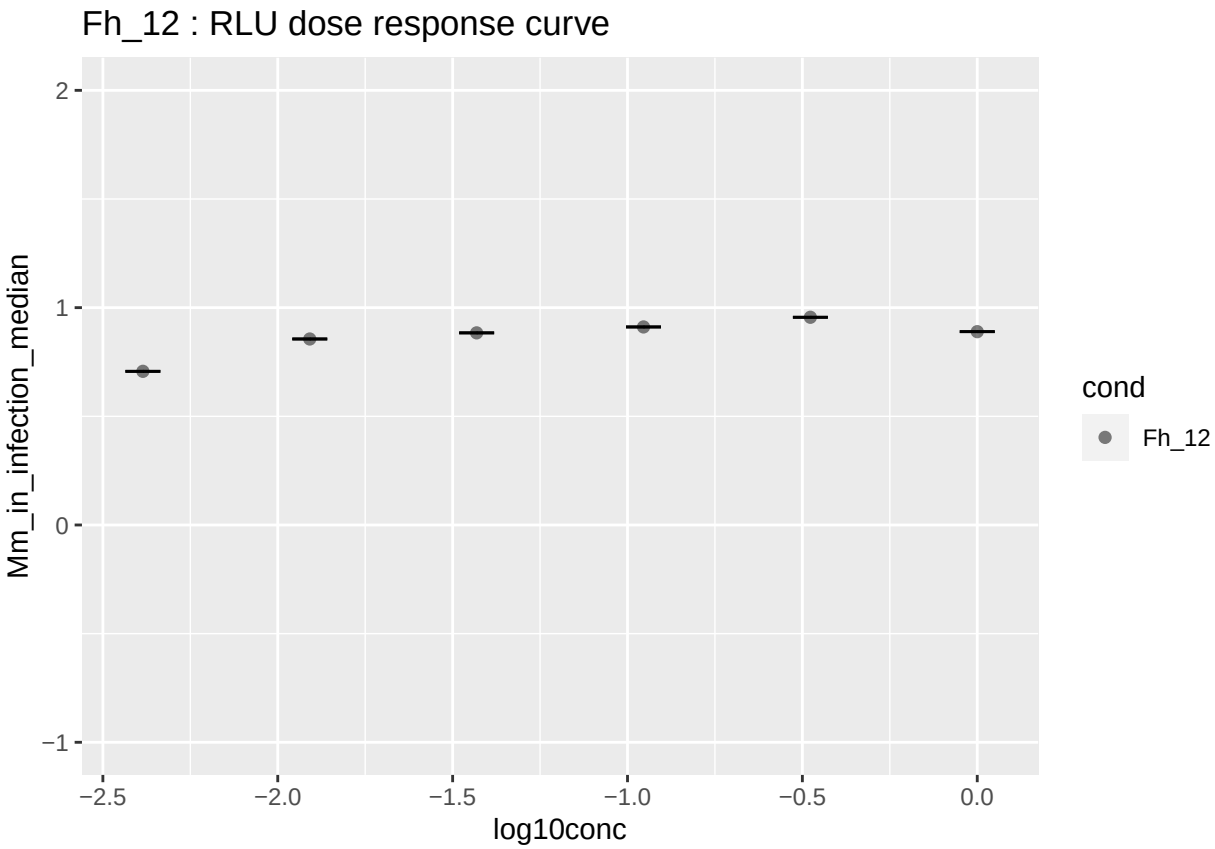

Ak_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ak_07

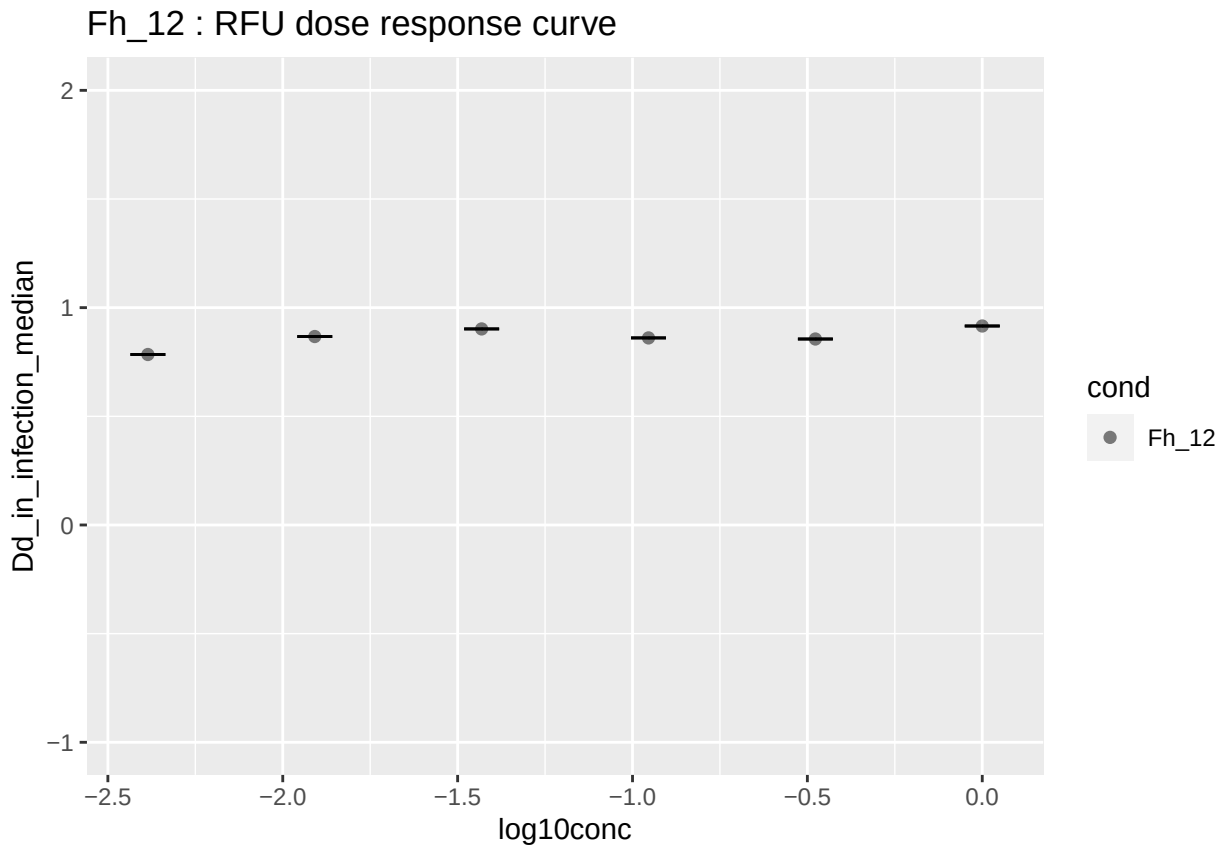

Am_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

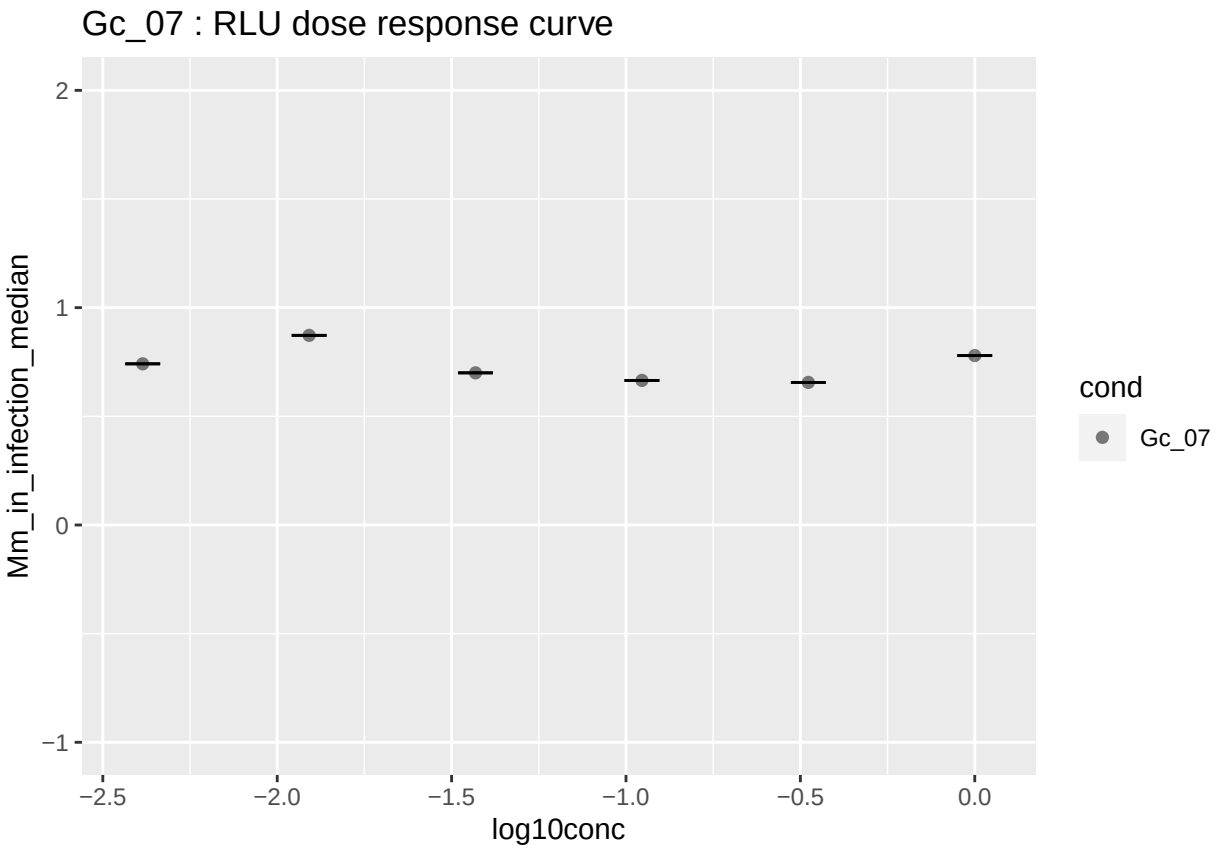

Am_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_72

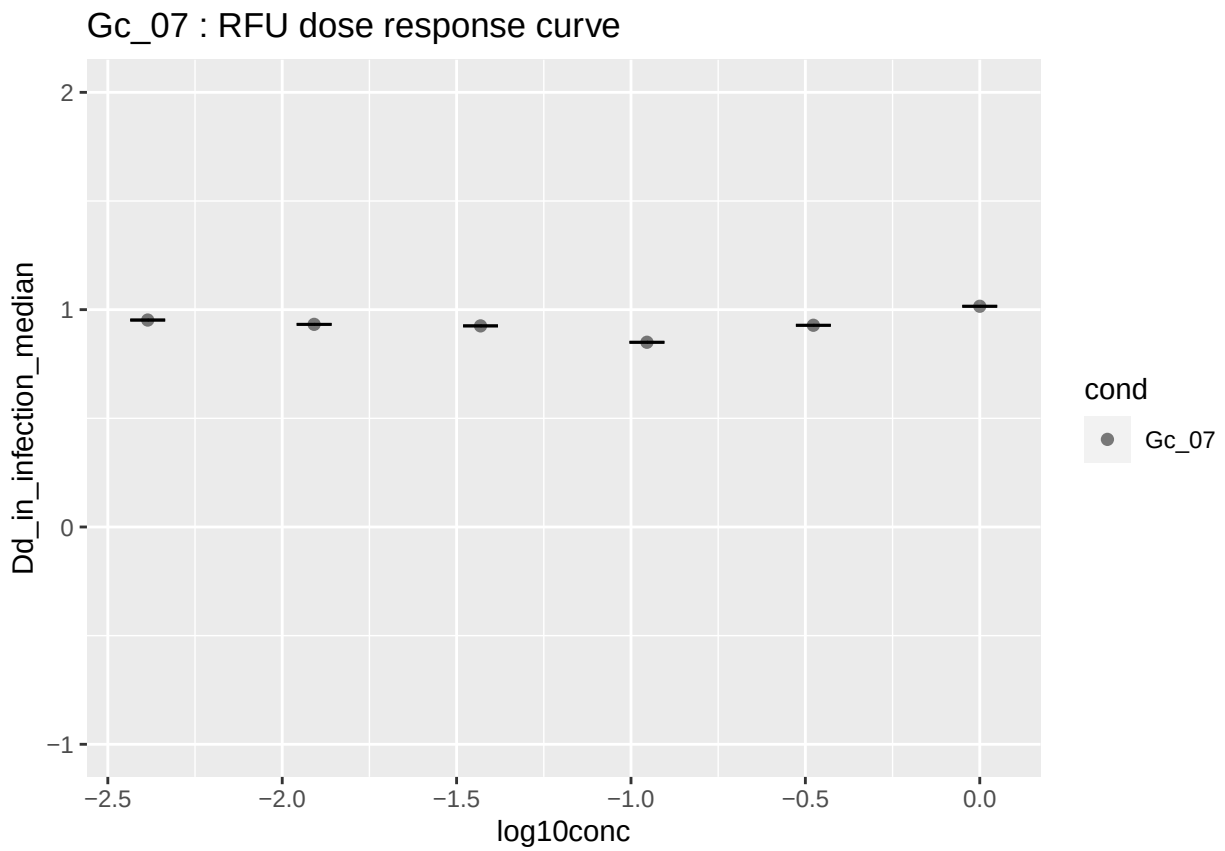

Am_86 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

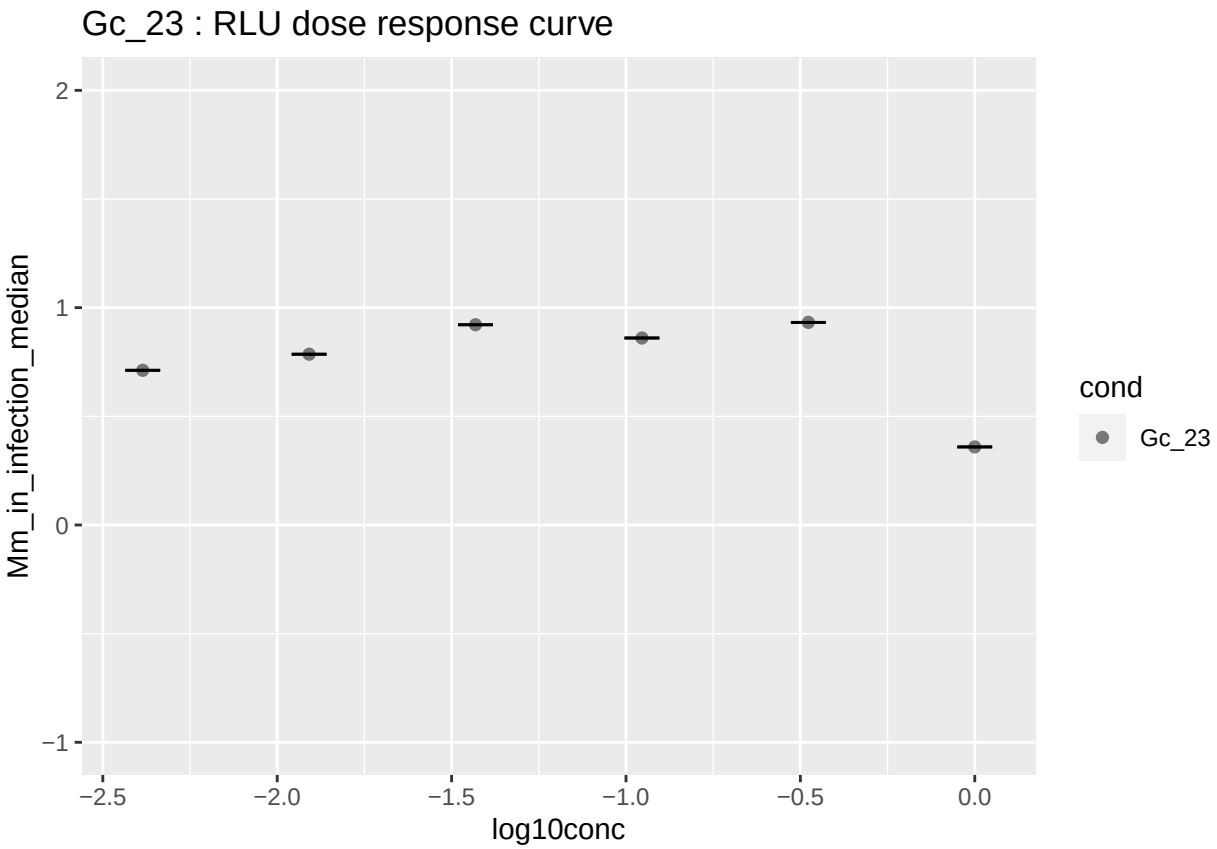

Am_86 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Am_86

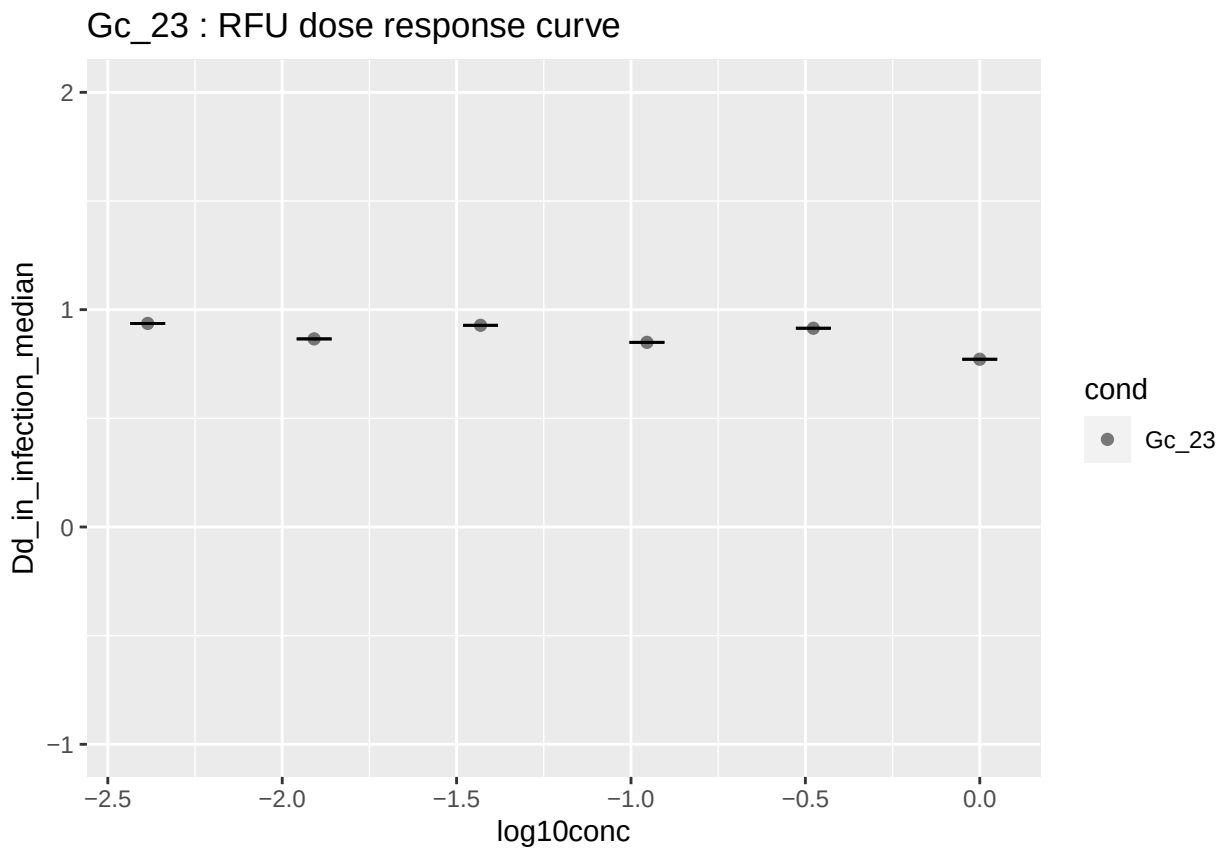

Fh_12 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

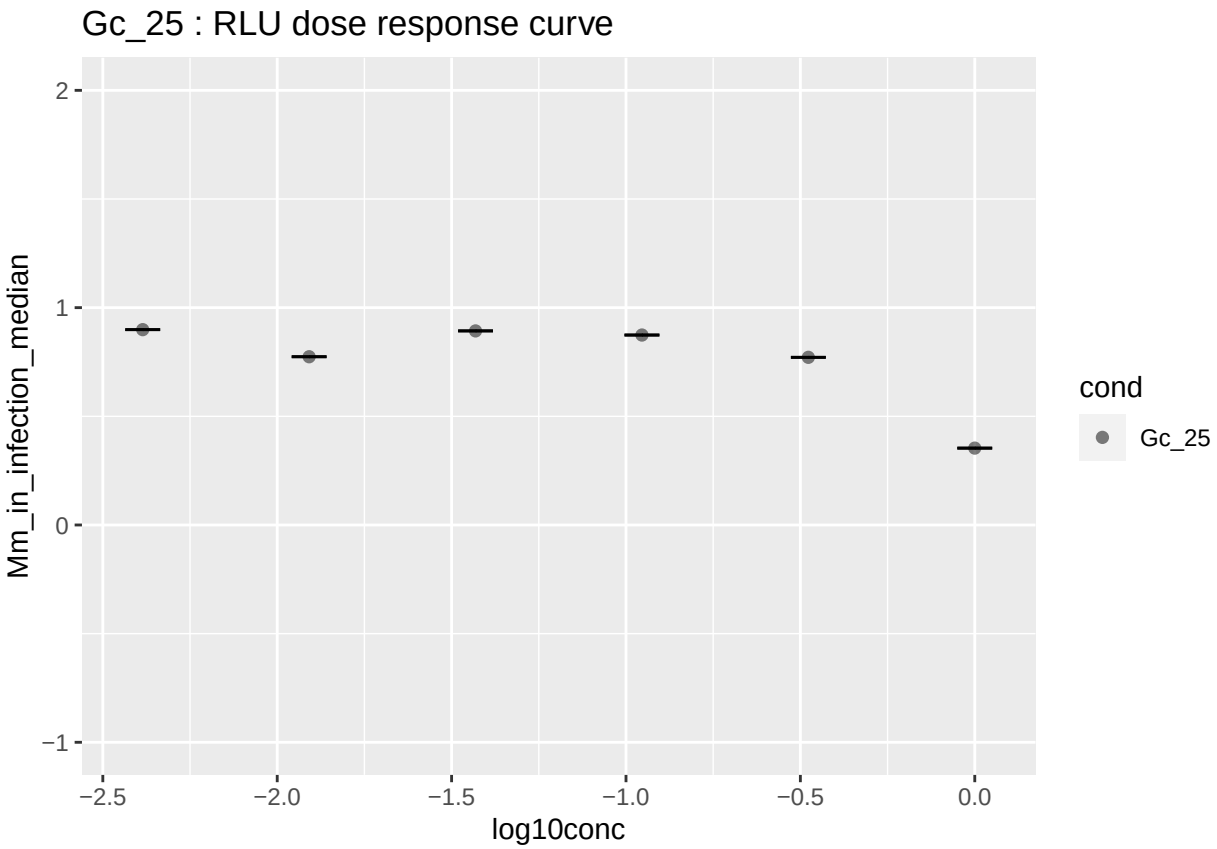

Fh_12 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Fh_12

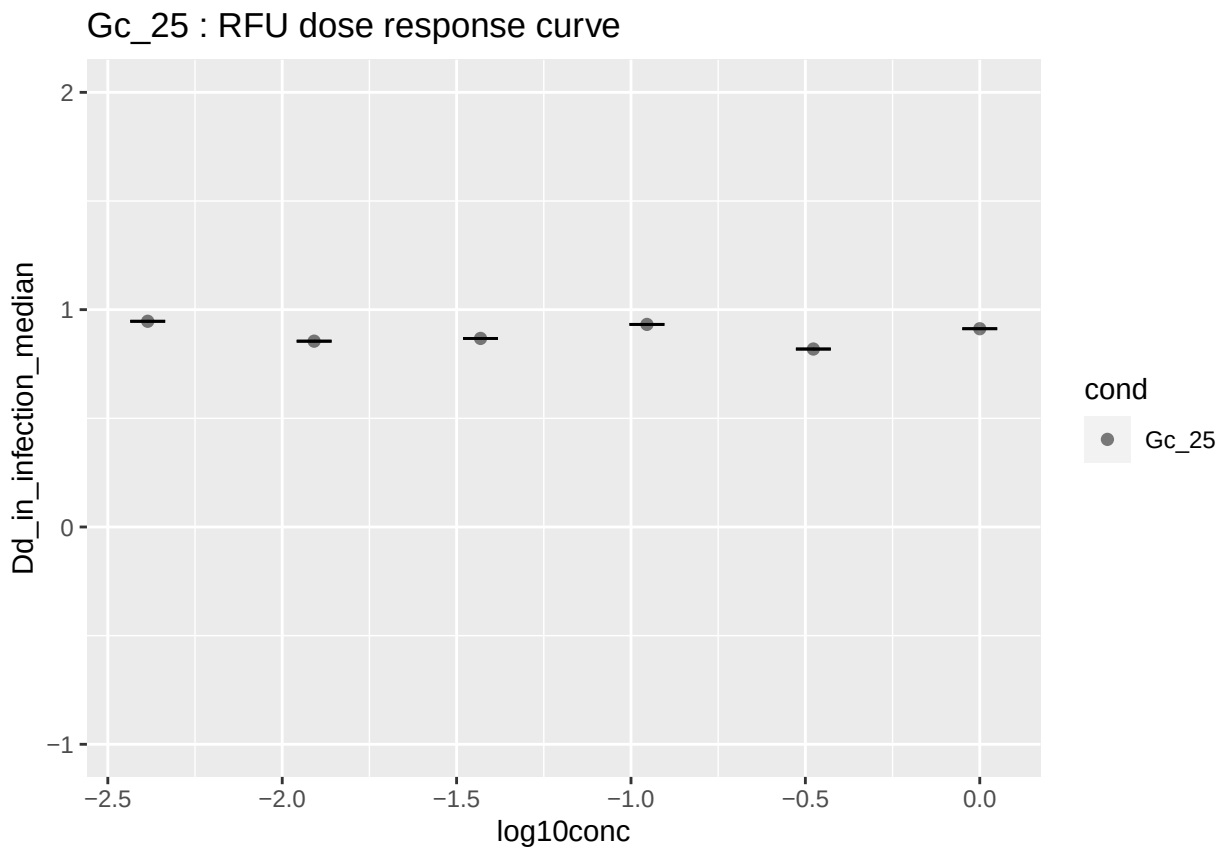

Gc_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

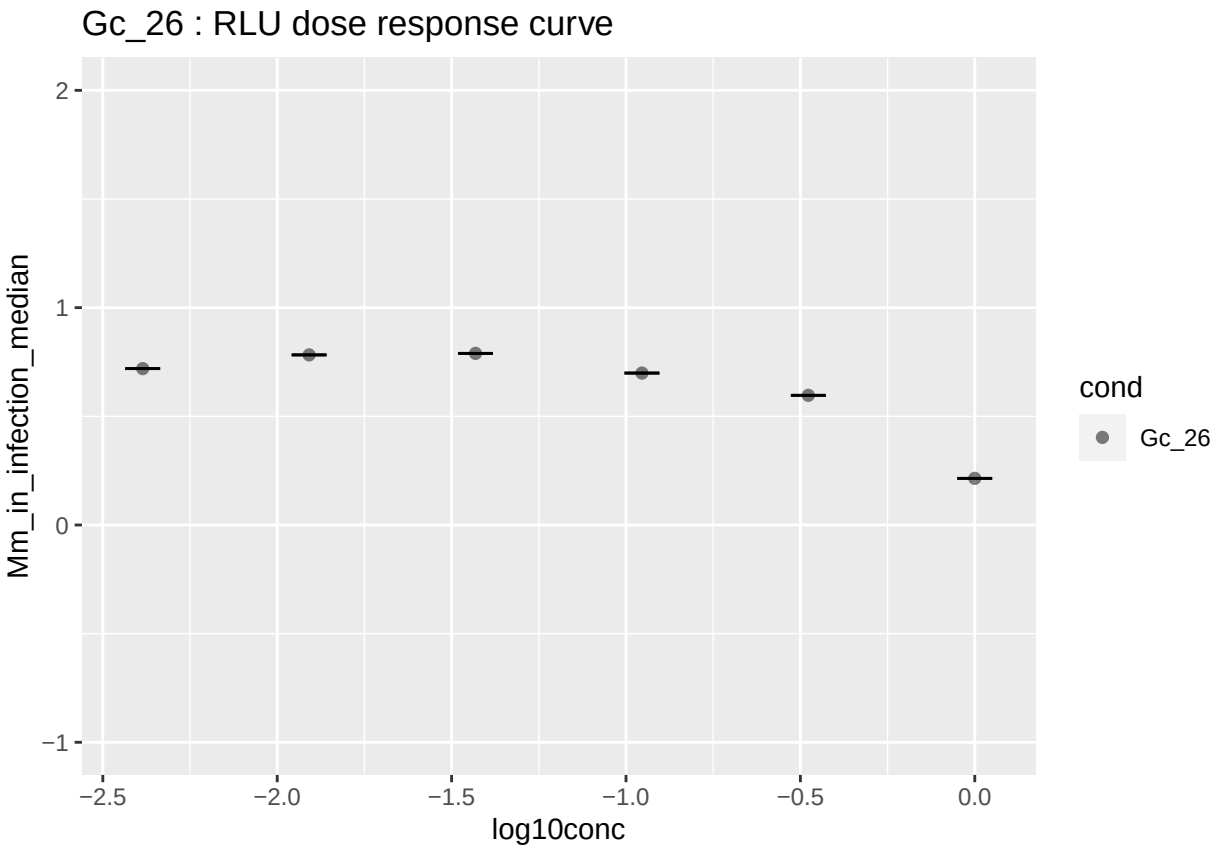

Gc_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_07

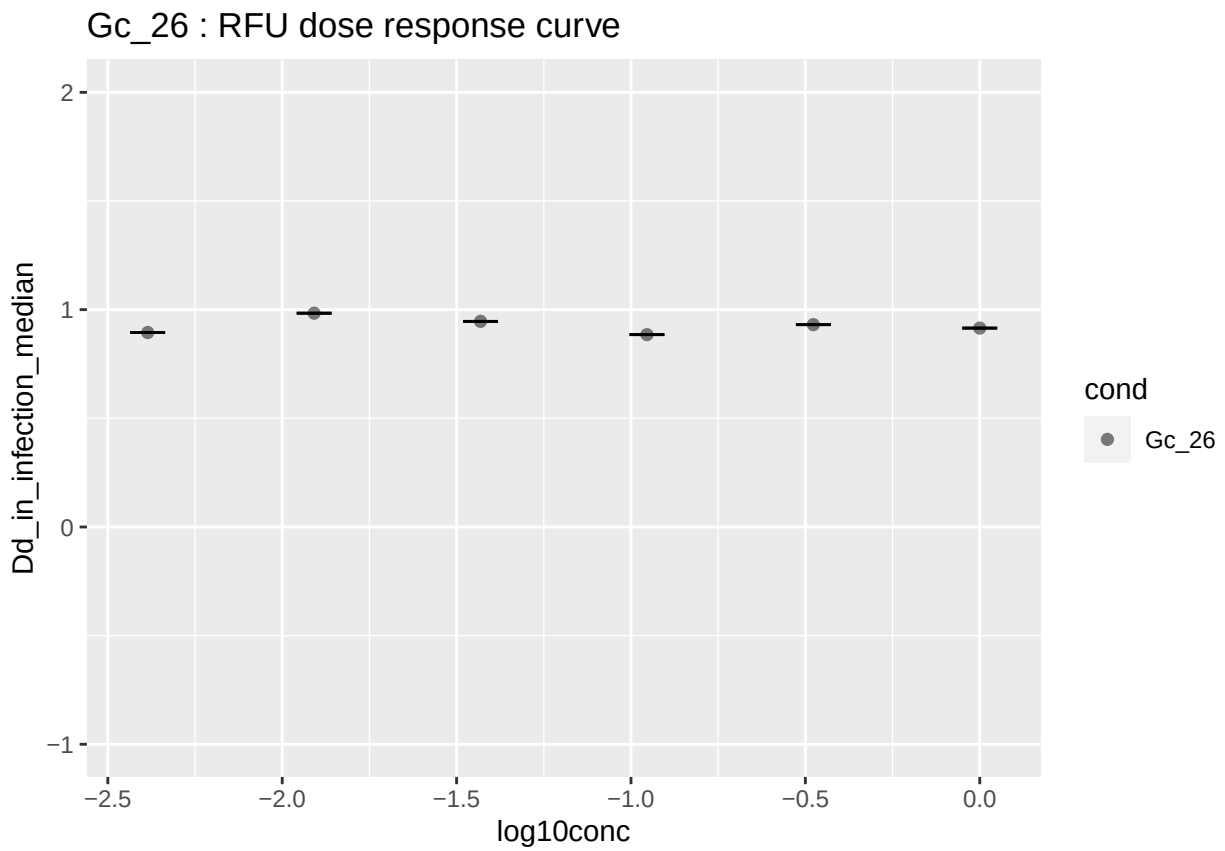

Gc_23 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

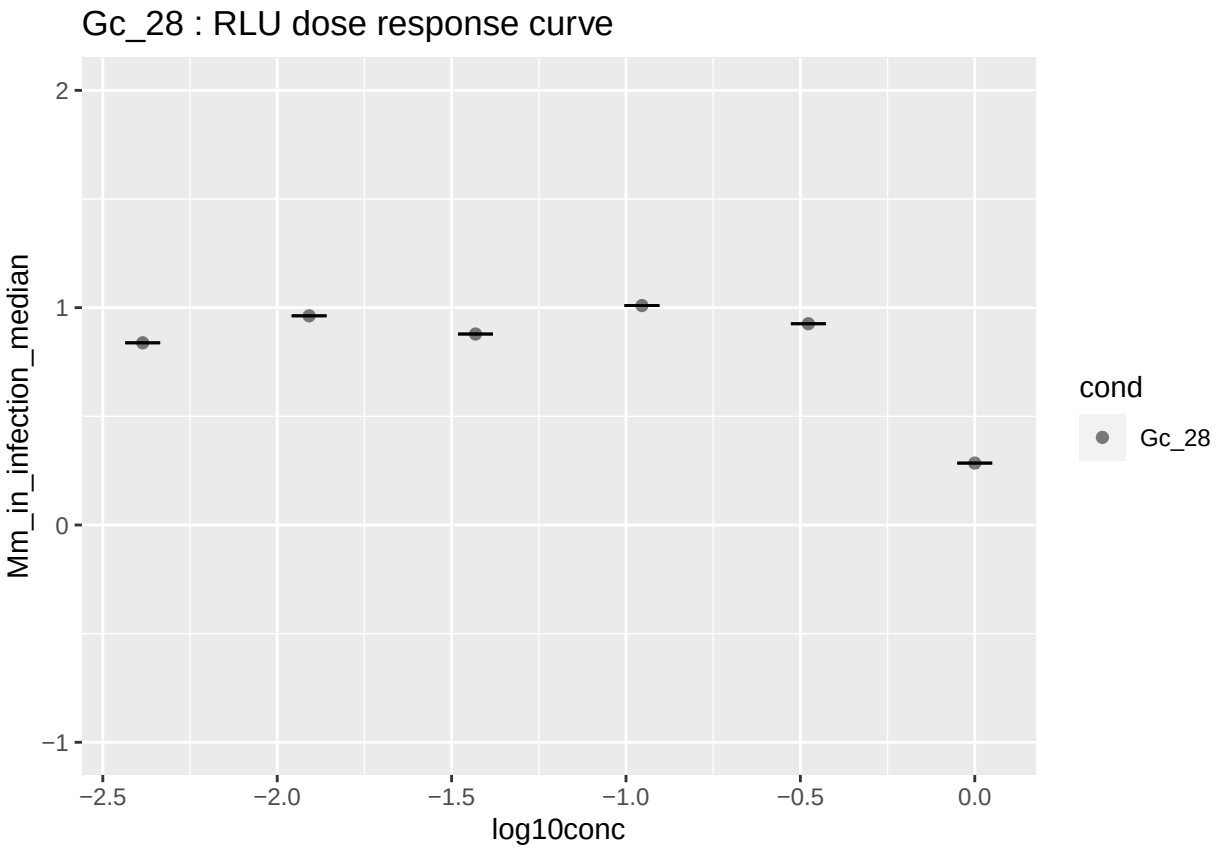

Gc_23 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_23

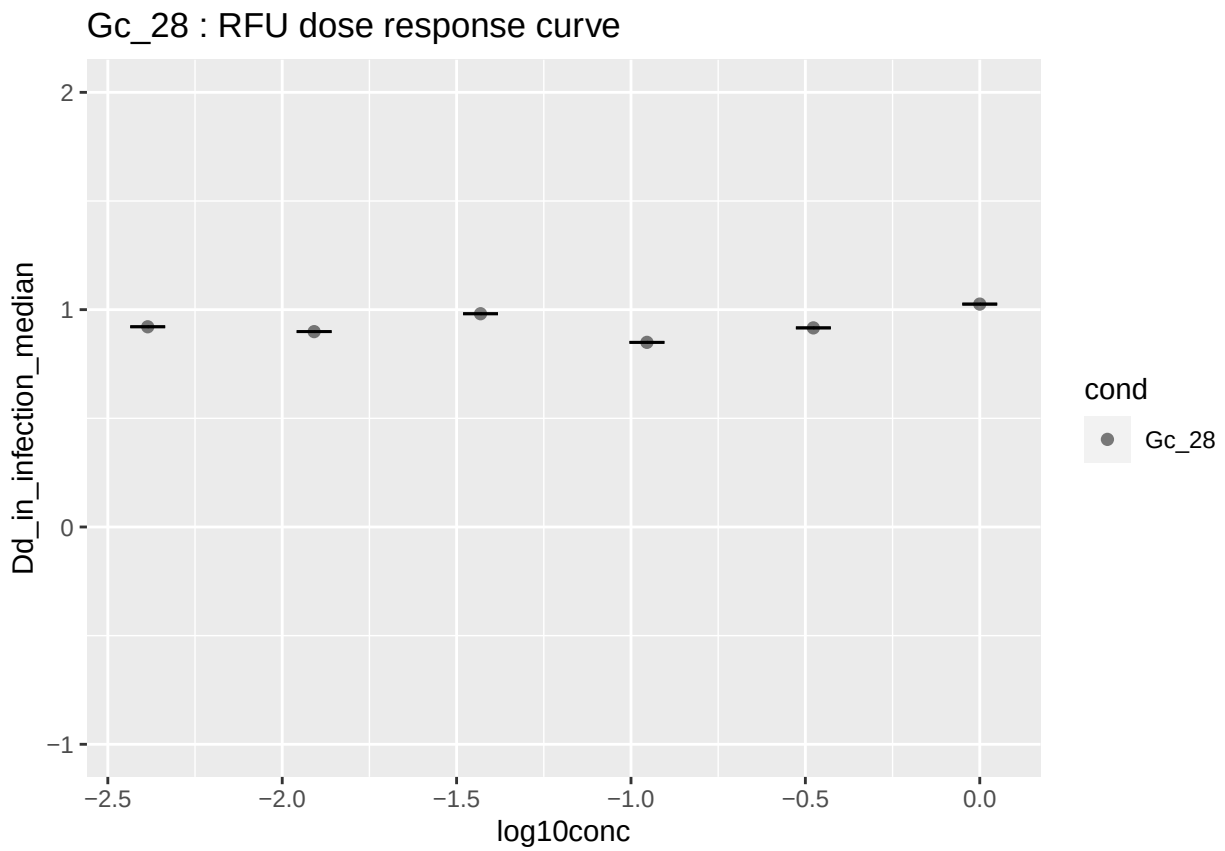

Gc_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

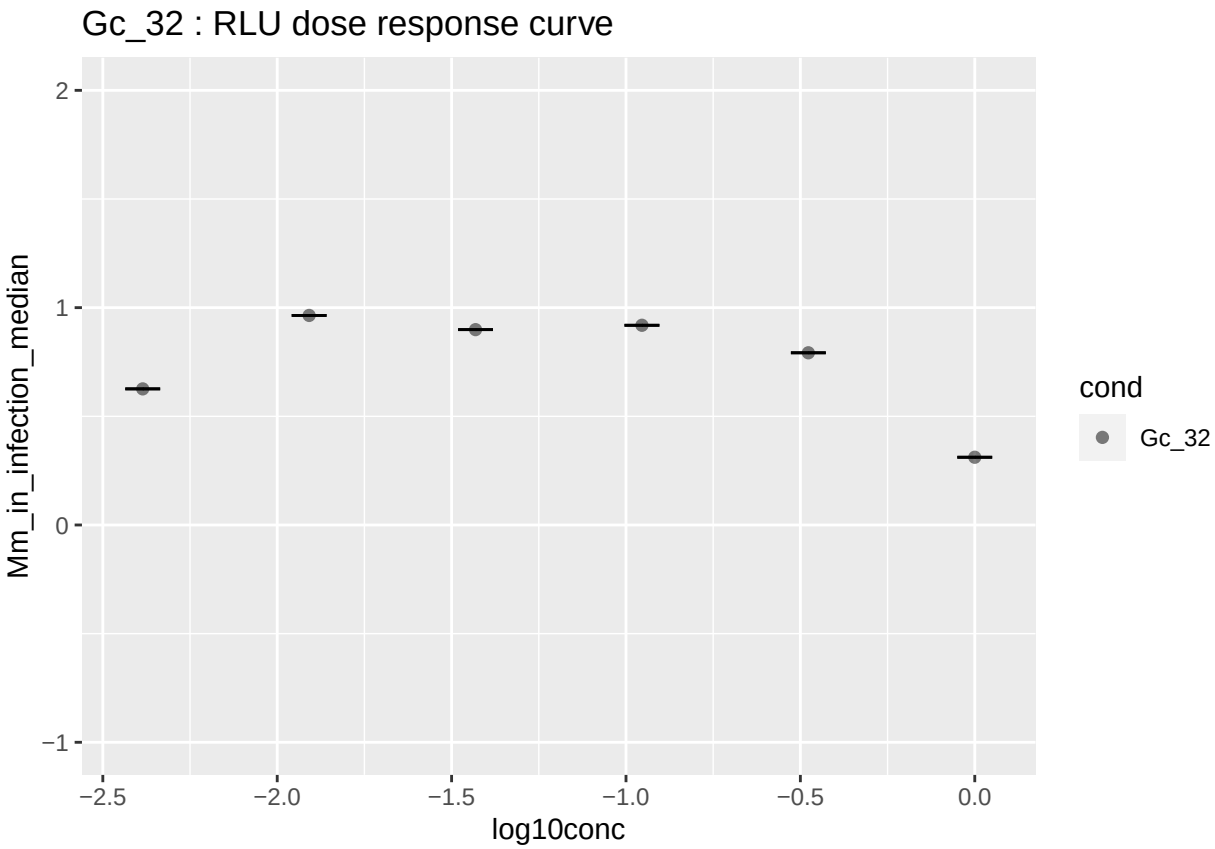

Gc_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_25

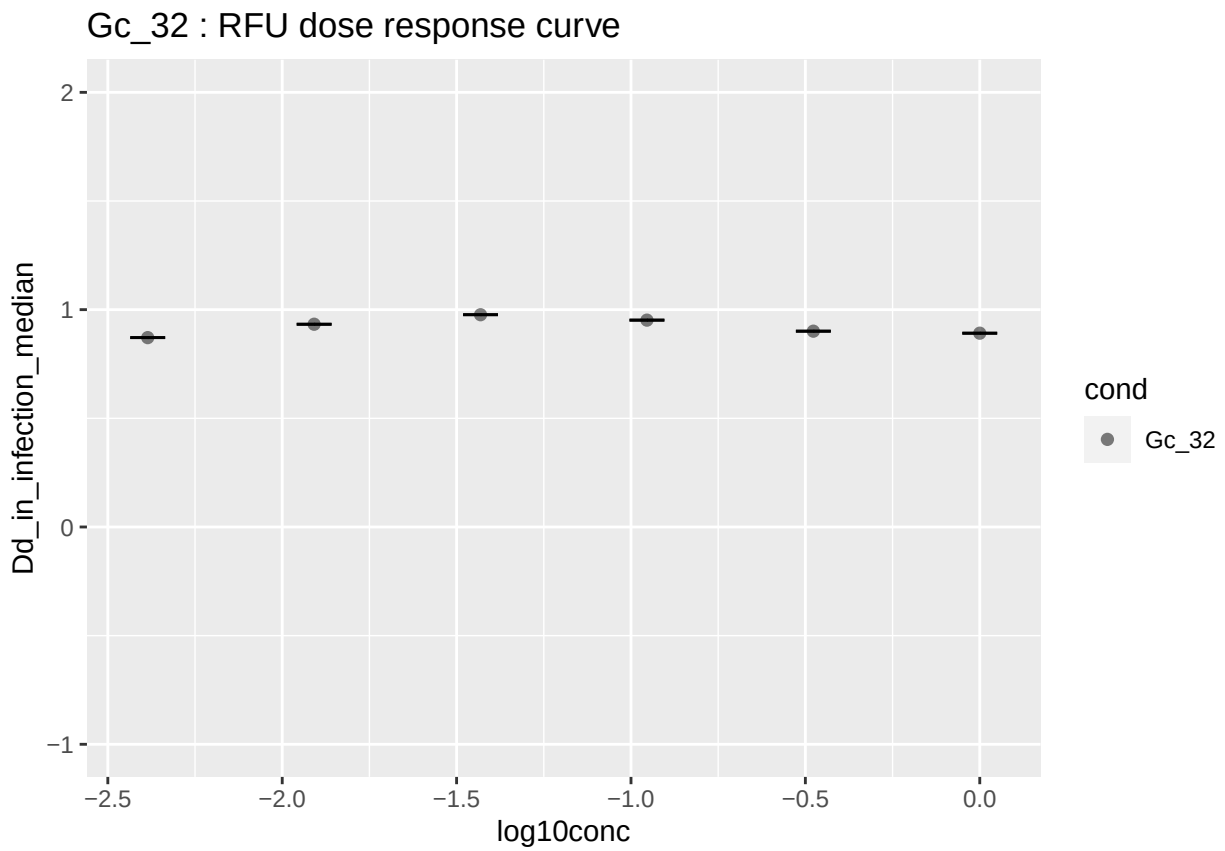

Gc_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

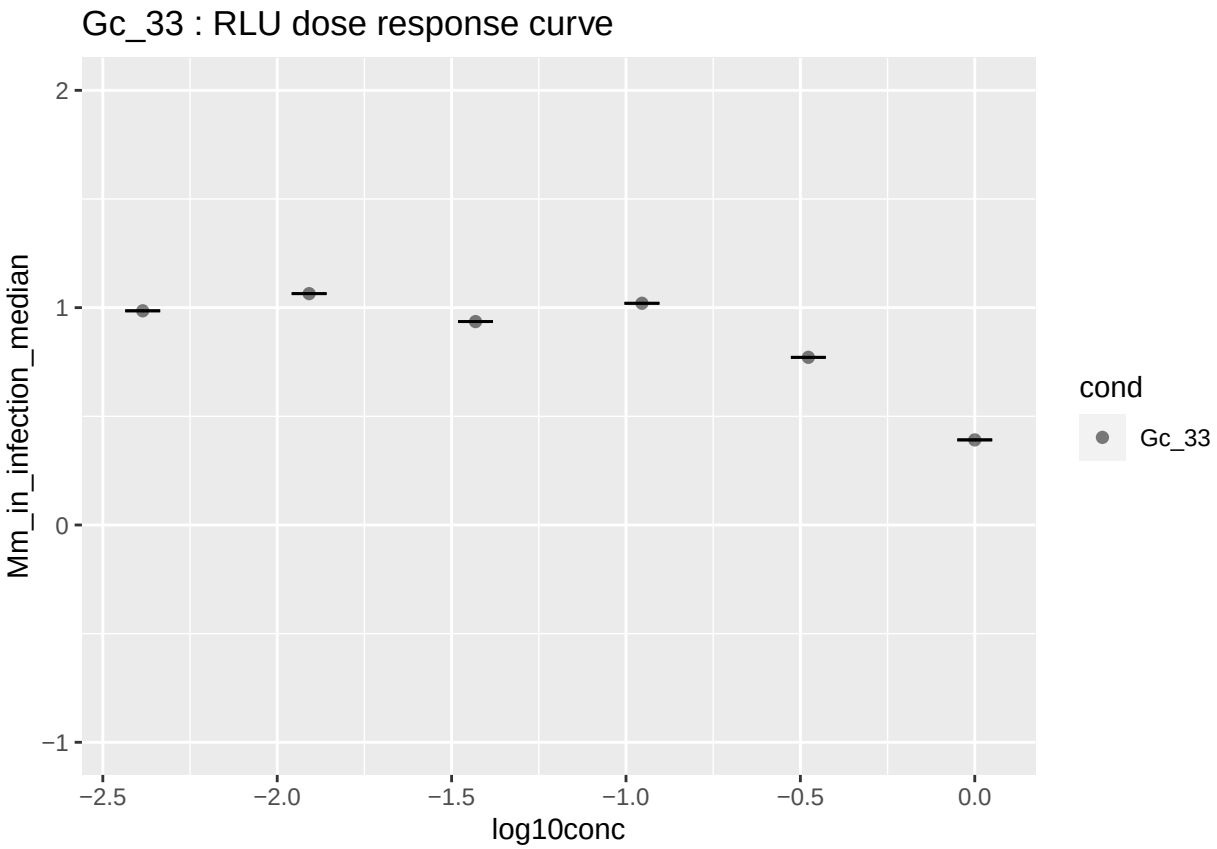

Gc_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_26

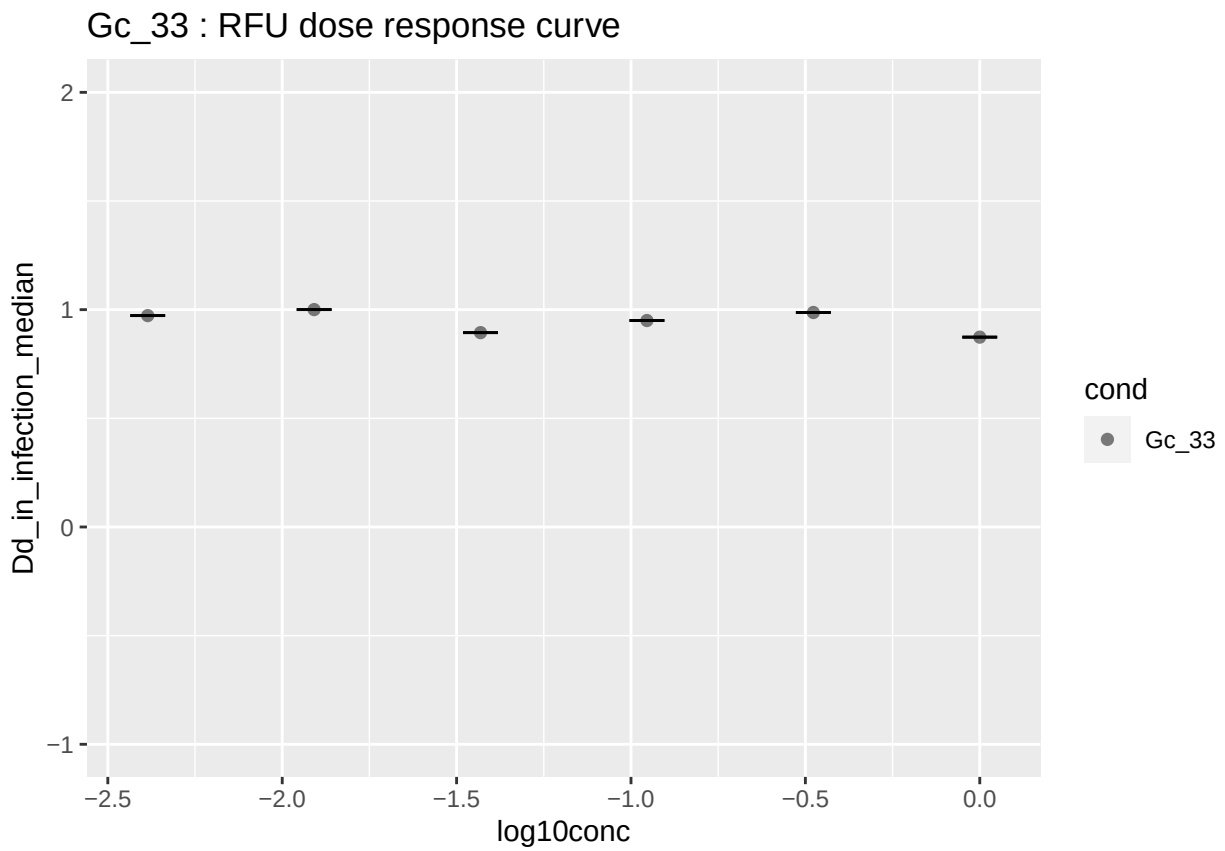

Gc_28 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

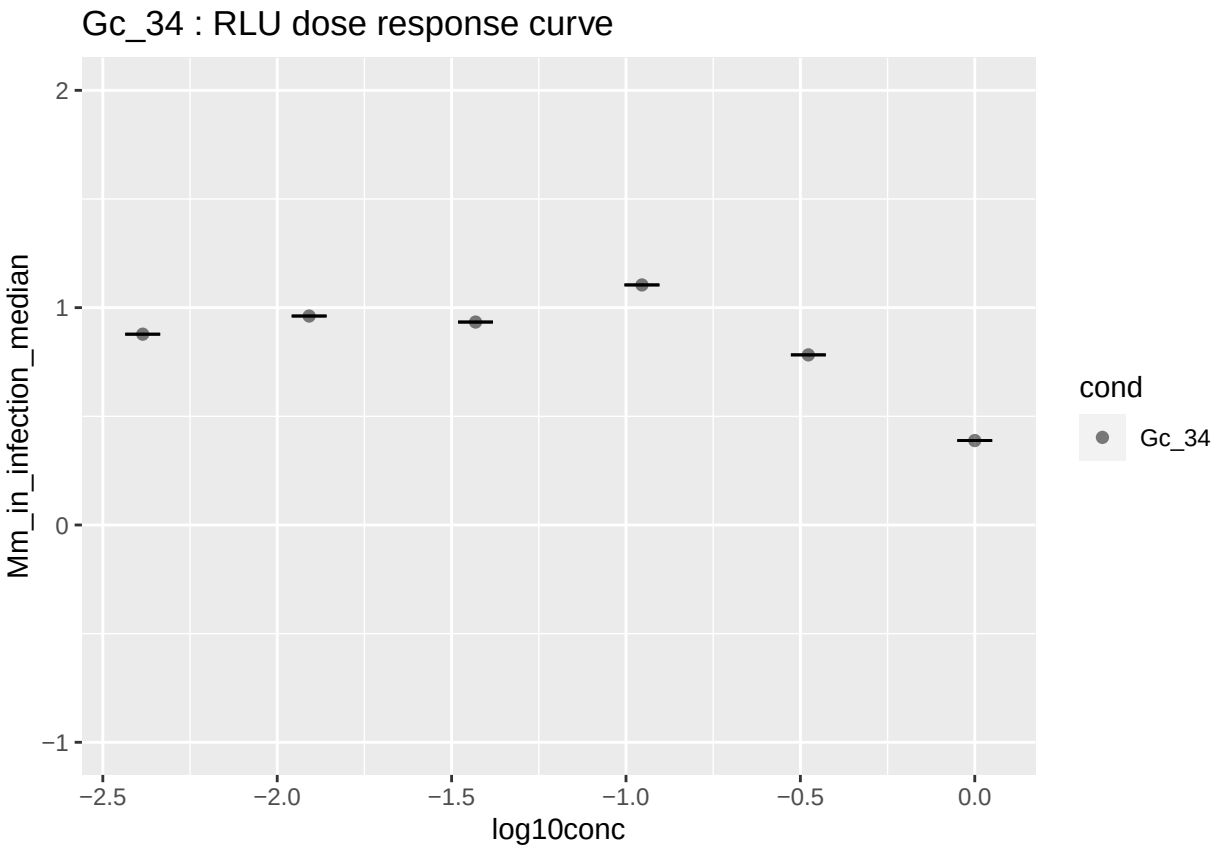

Gc_28 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_28

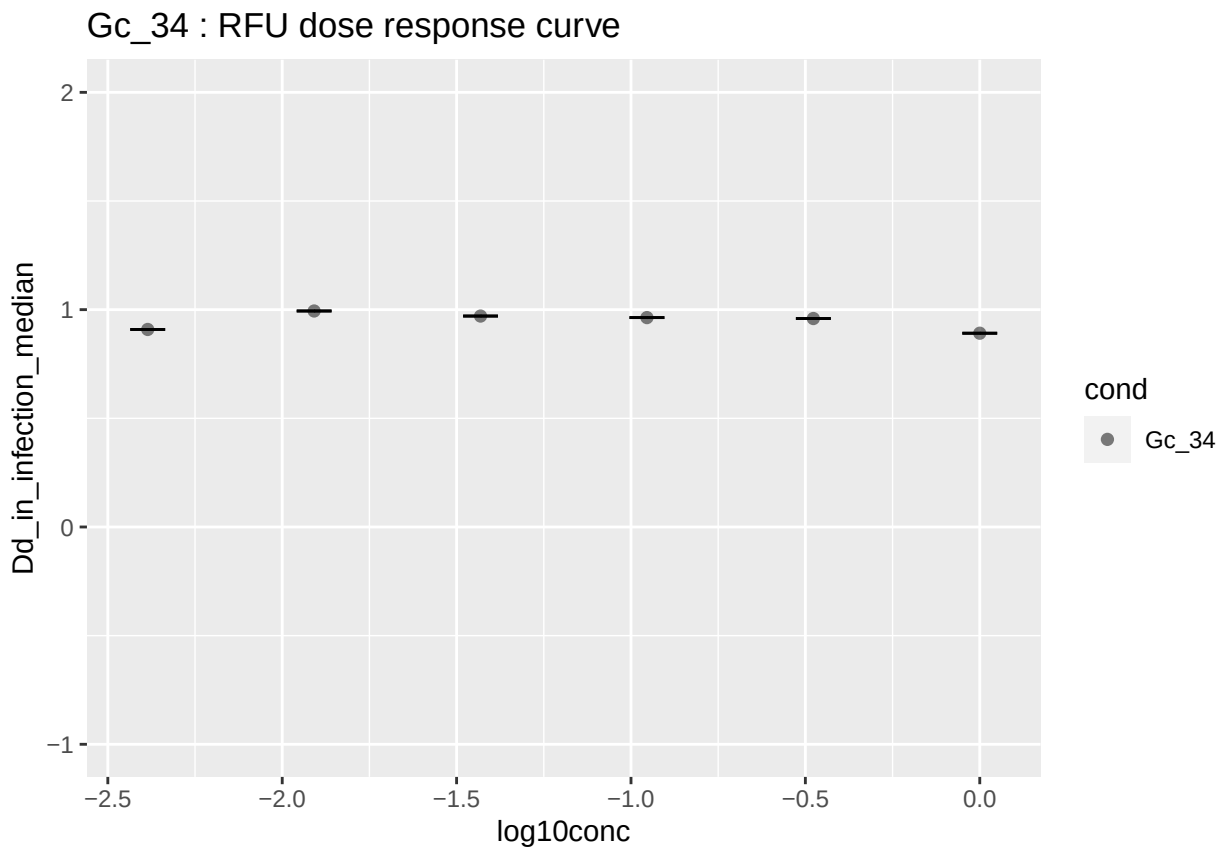

Gc_32 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

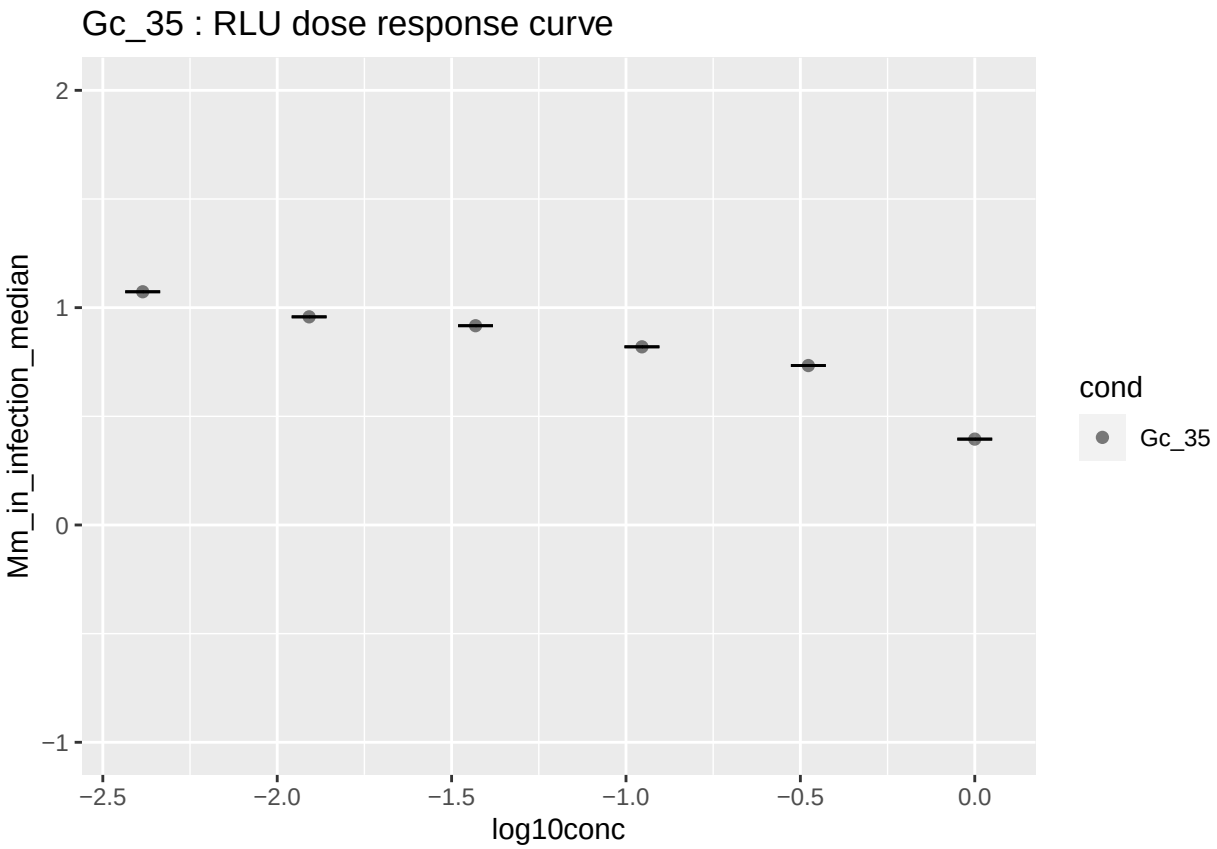

Gc_32 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_32

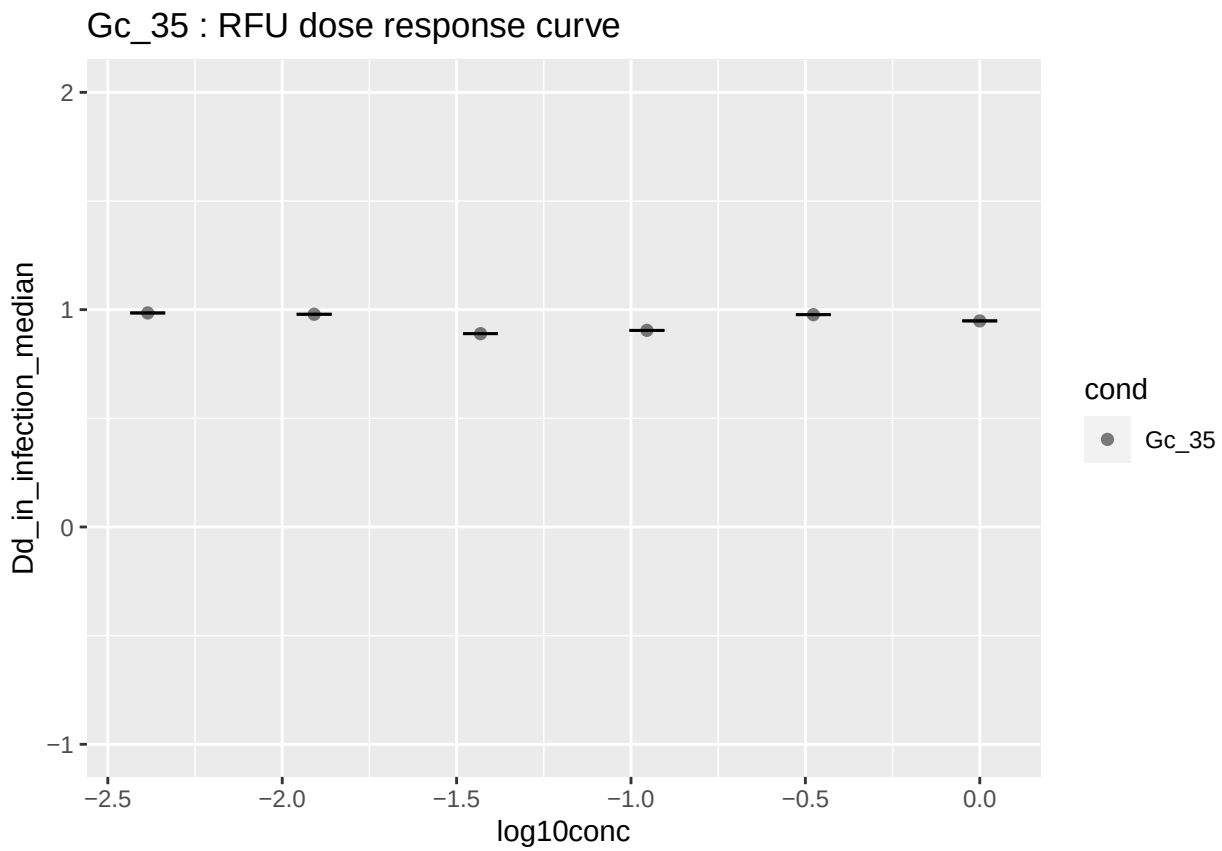

Gc_33 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

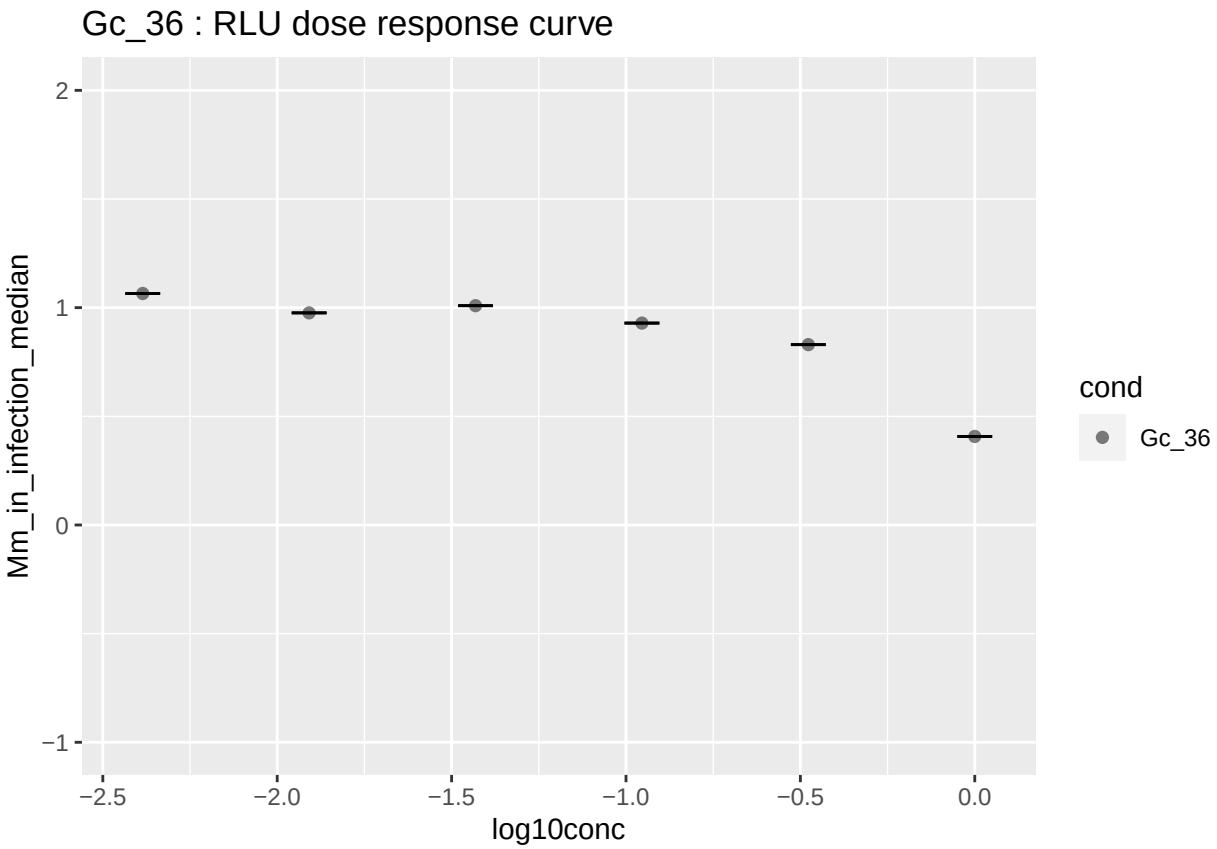

Gc_33 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_33

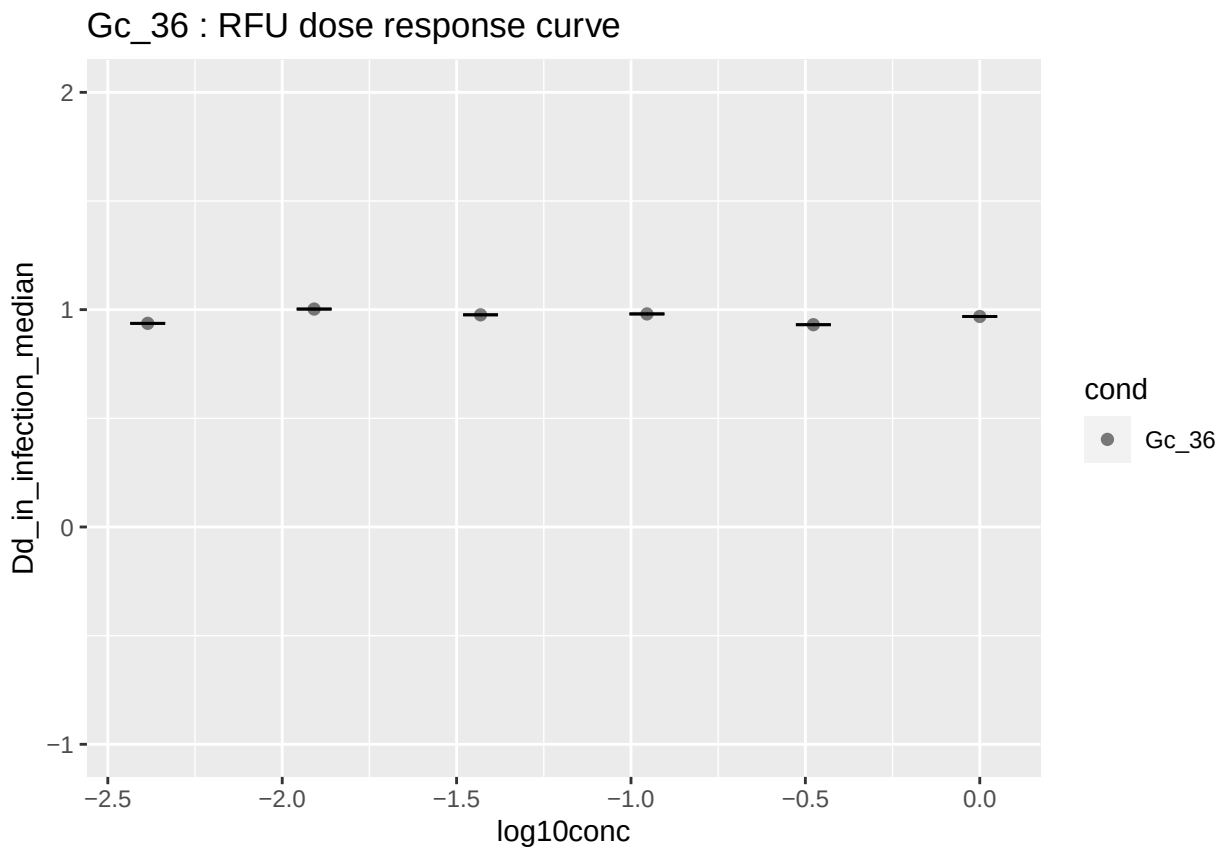

Gc_34 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

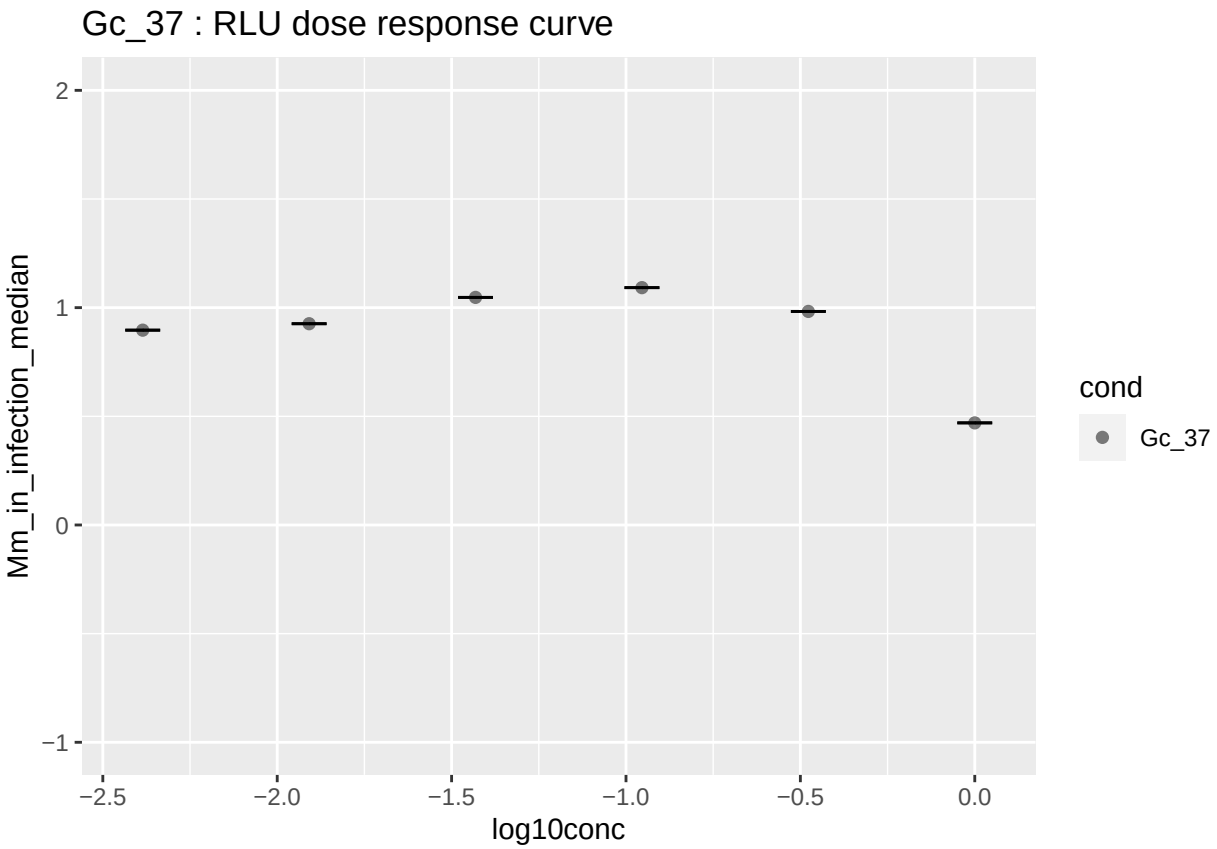

Gc_34 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_34

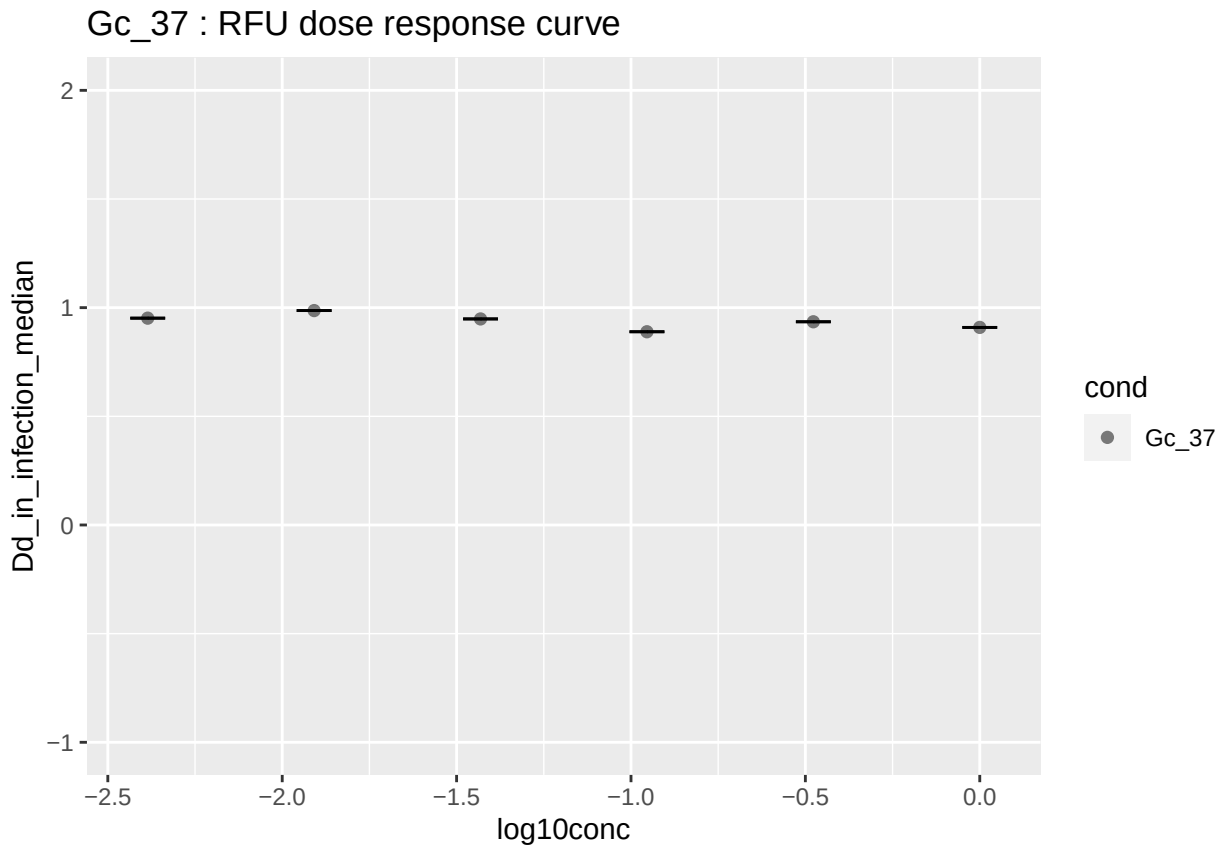

Gc_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

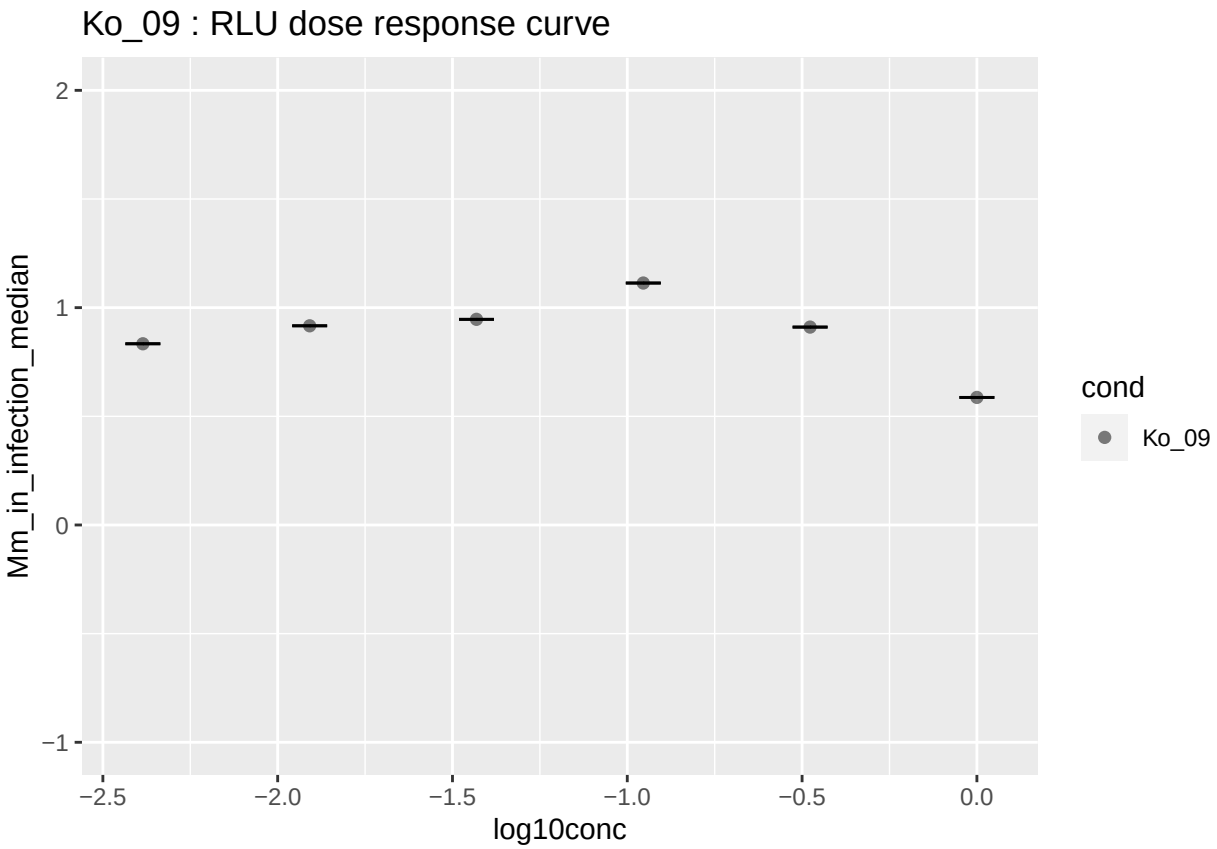

Gc_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_35

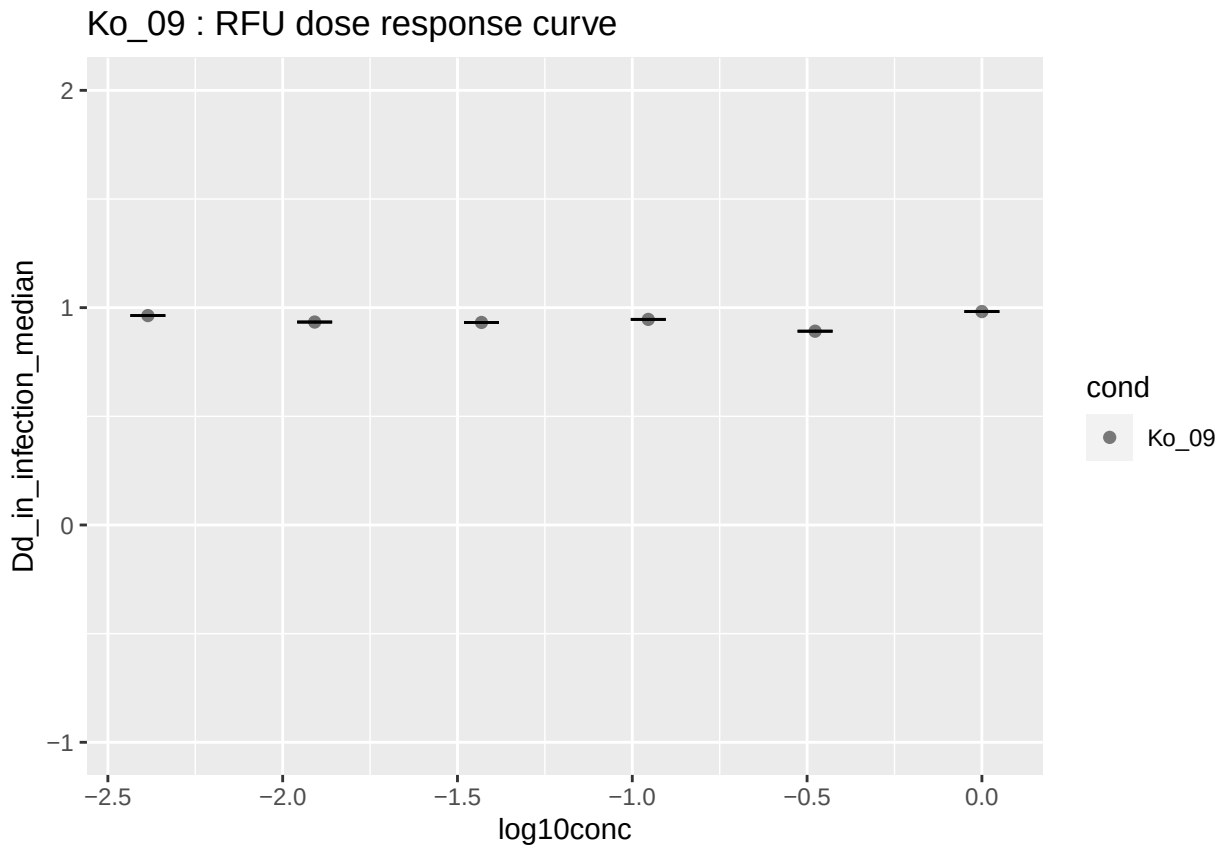

Gc_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

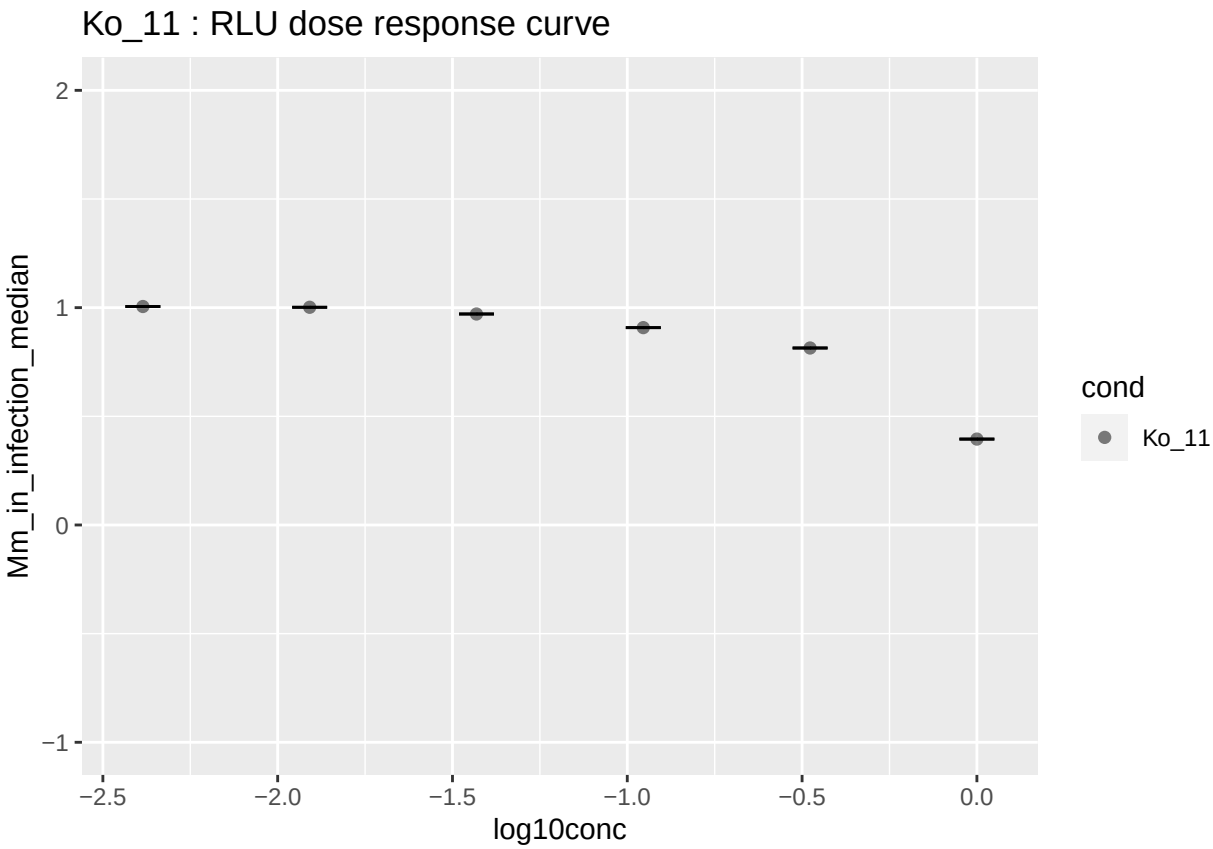

Gc_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_36

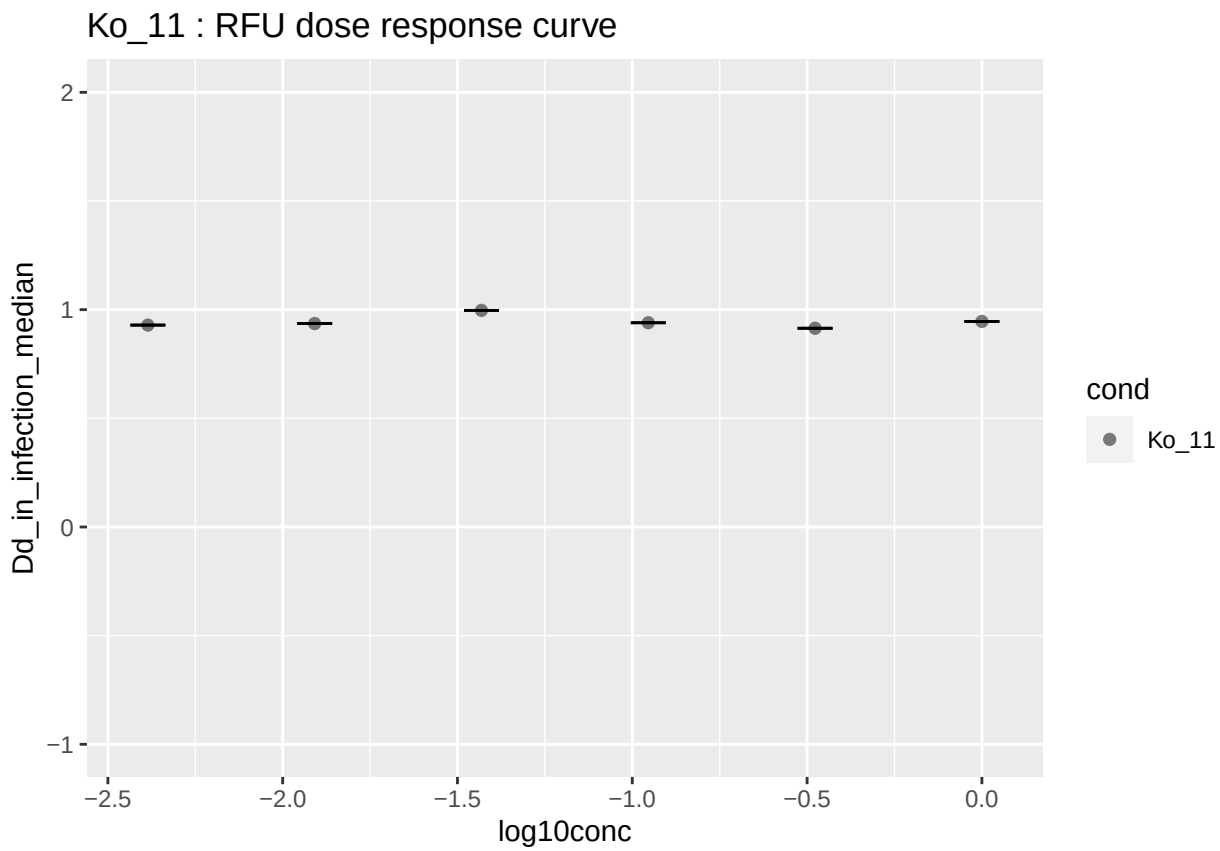

Gc_37 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

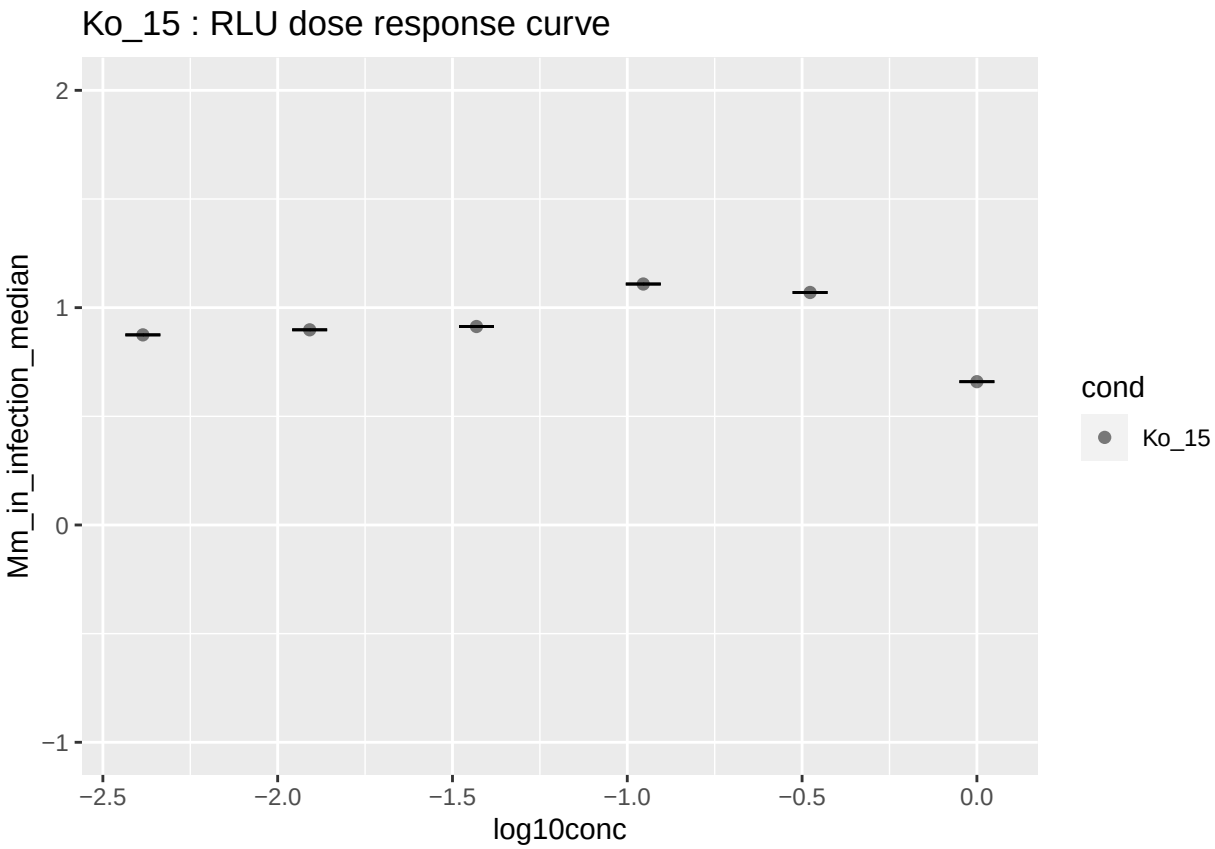

Gc_37 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Gc_37

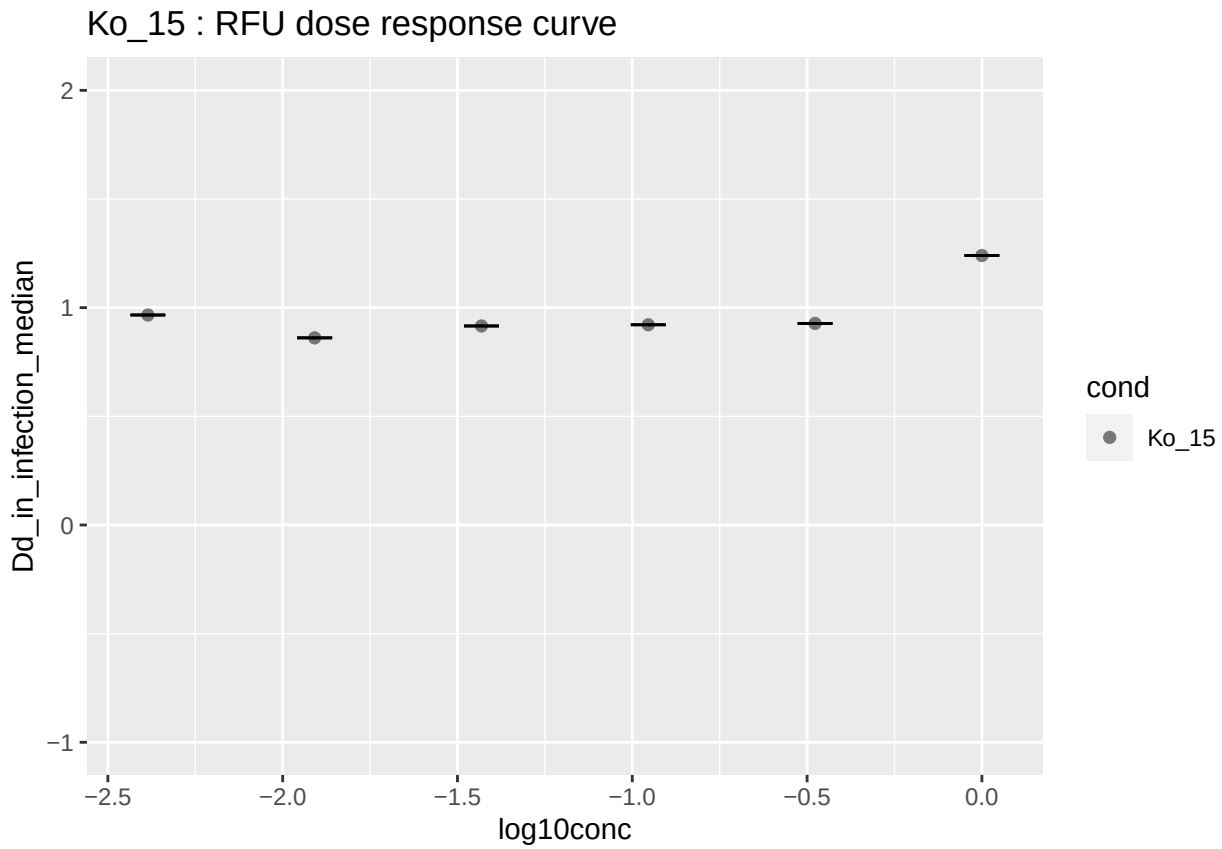

Ko_09 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

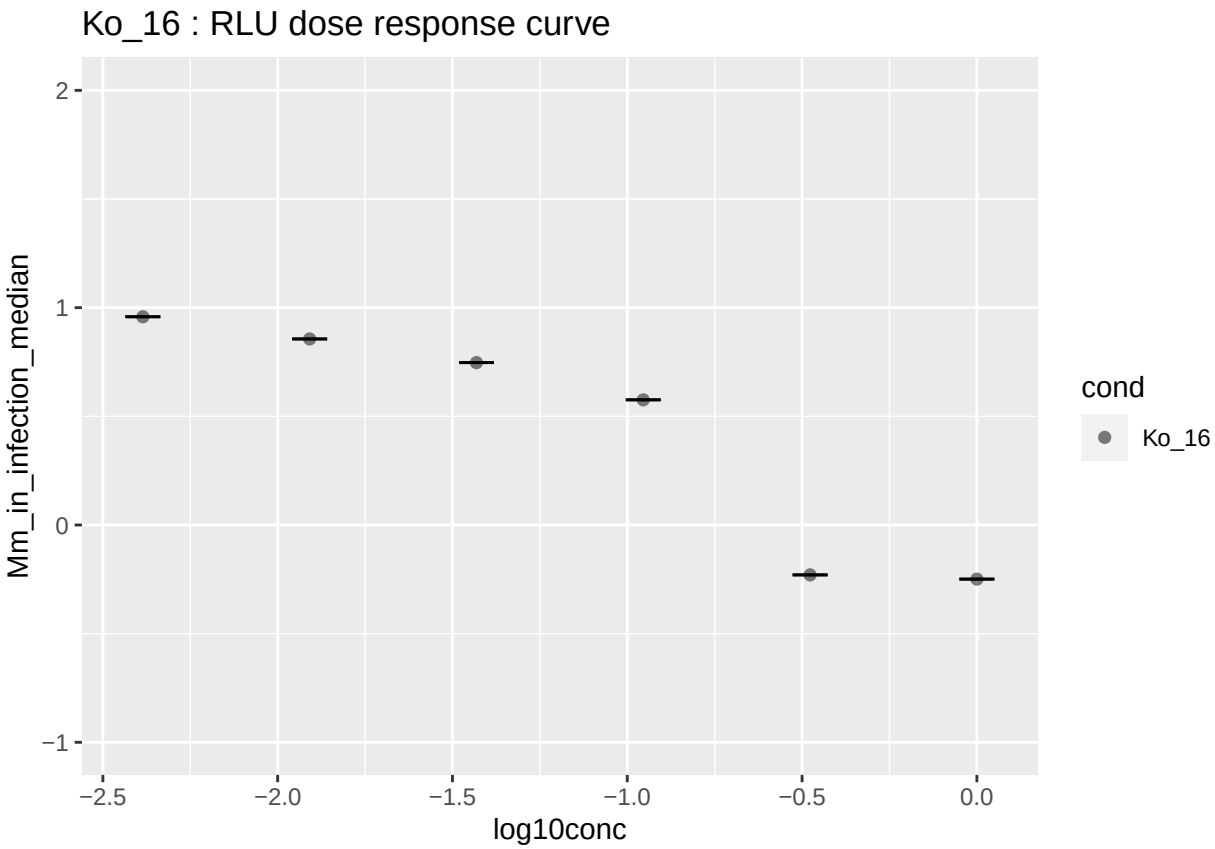

Ko_09 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_09

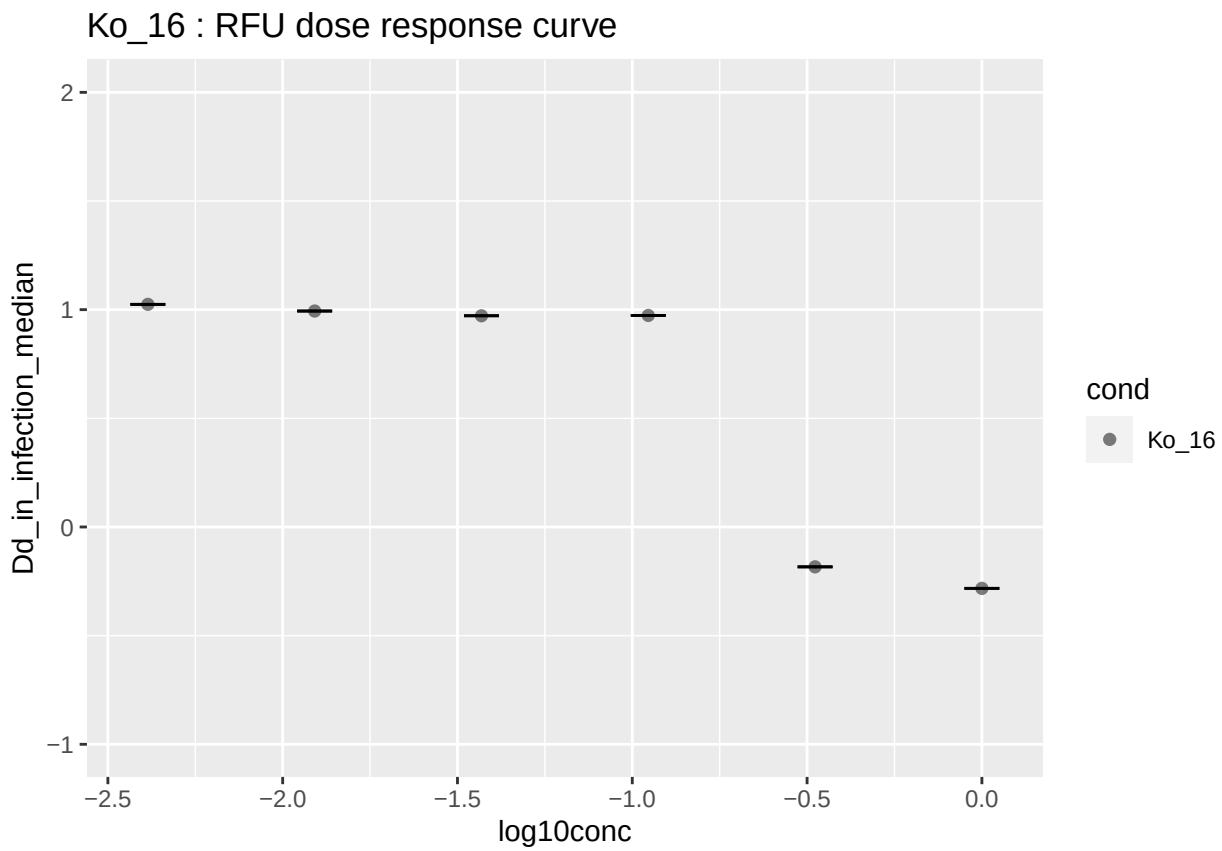

Ko_11 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

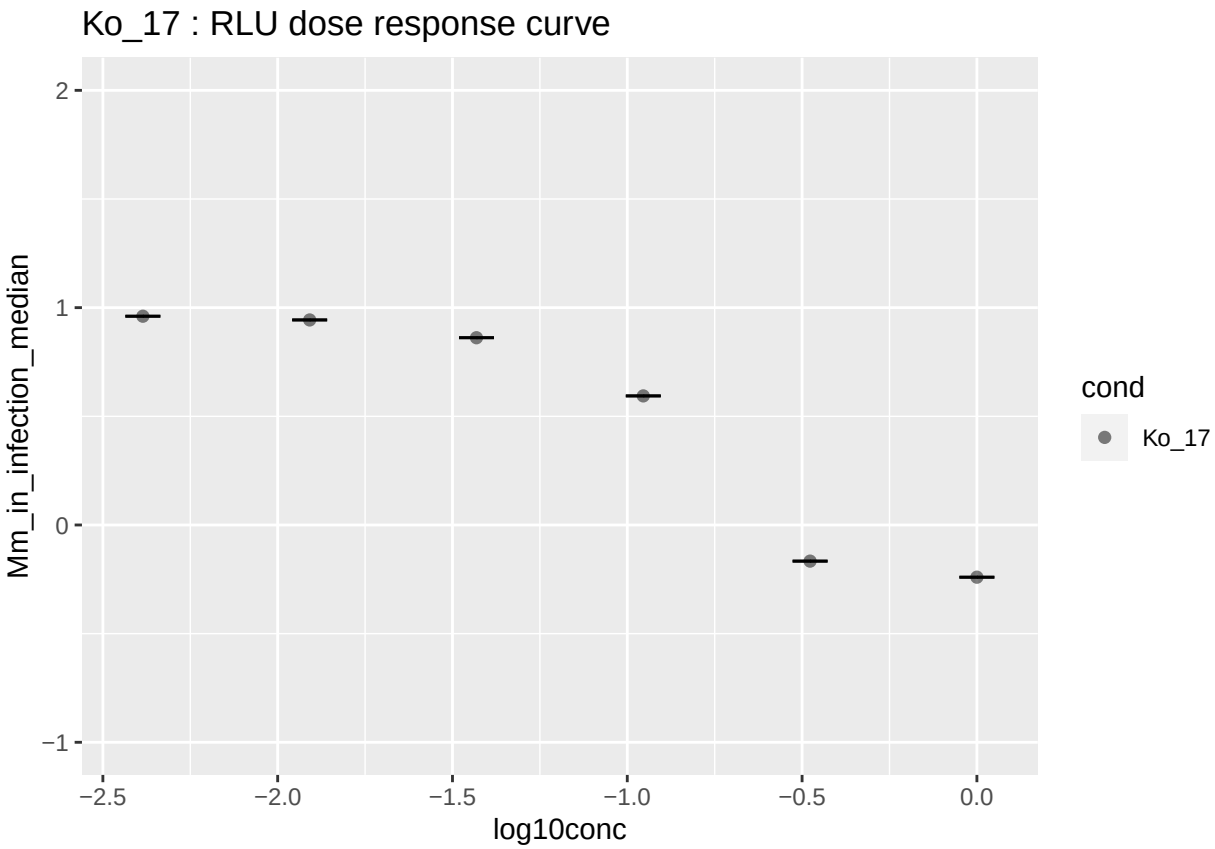

Ko_11 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_11

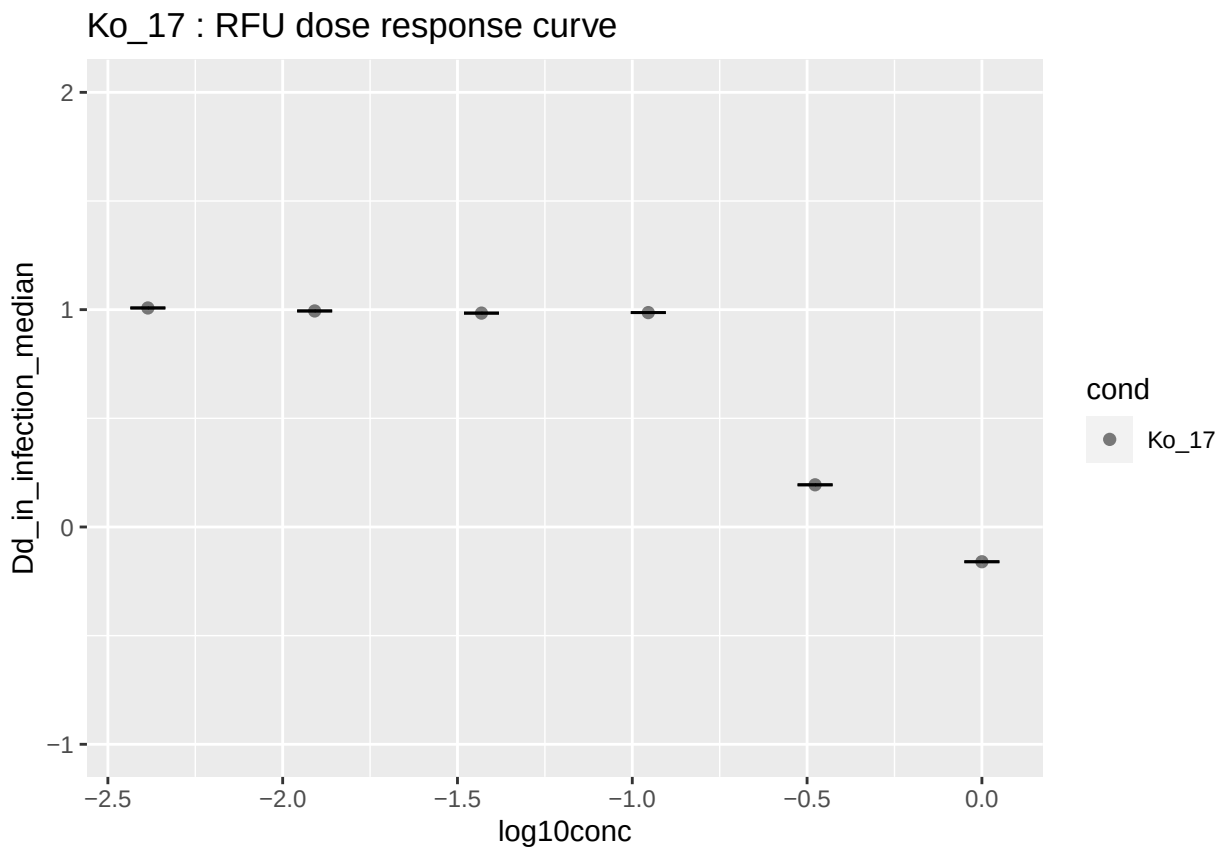

Ko_15 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

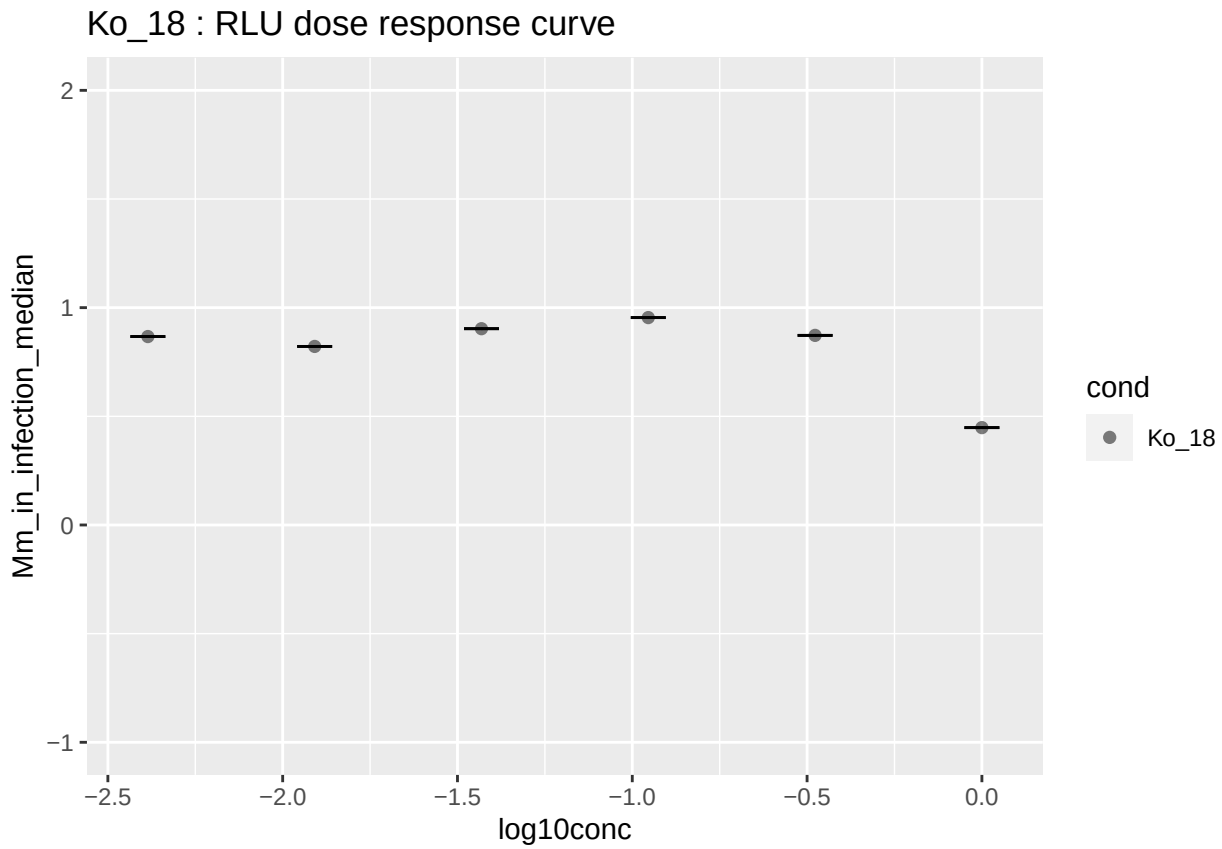

Ko_15 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_15

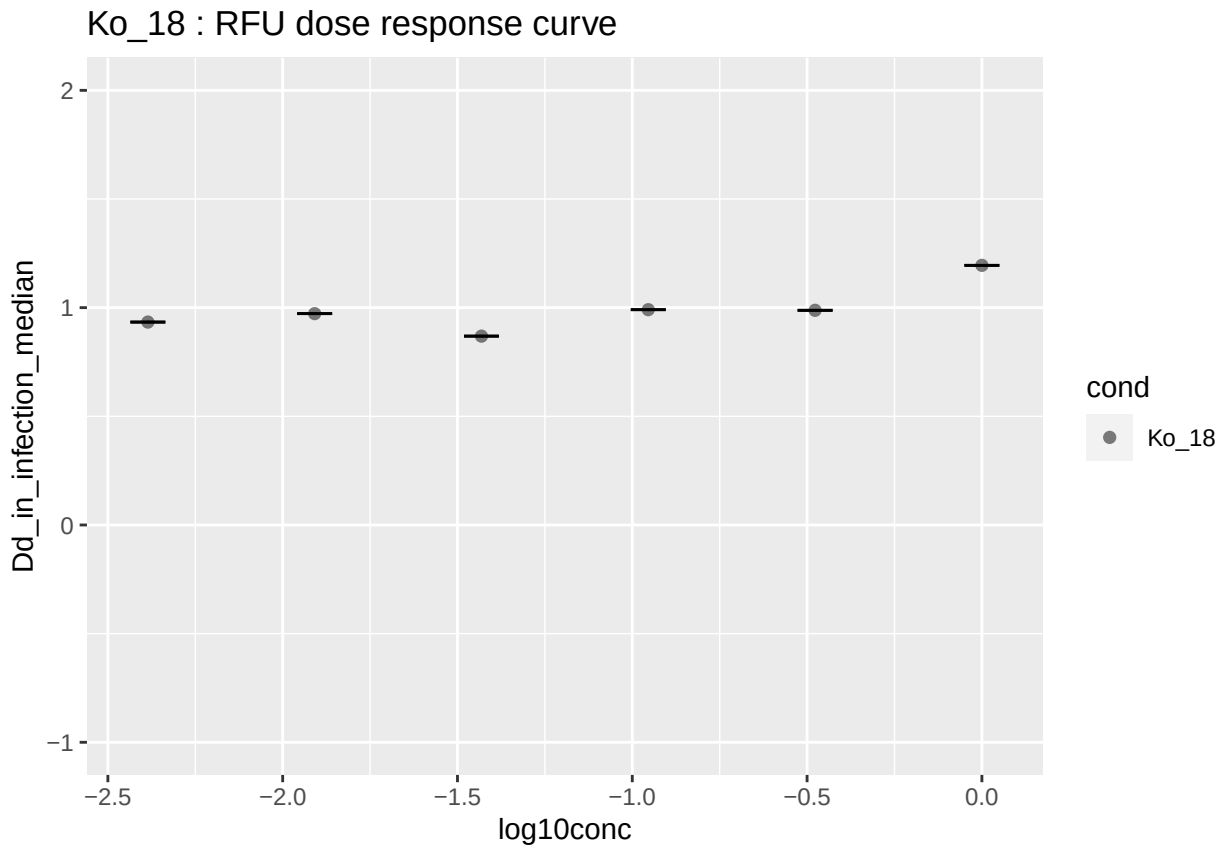

Ko_16 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

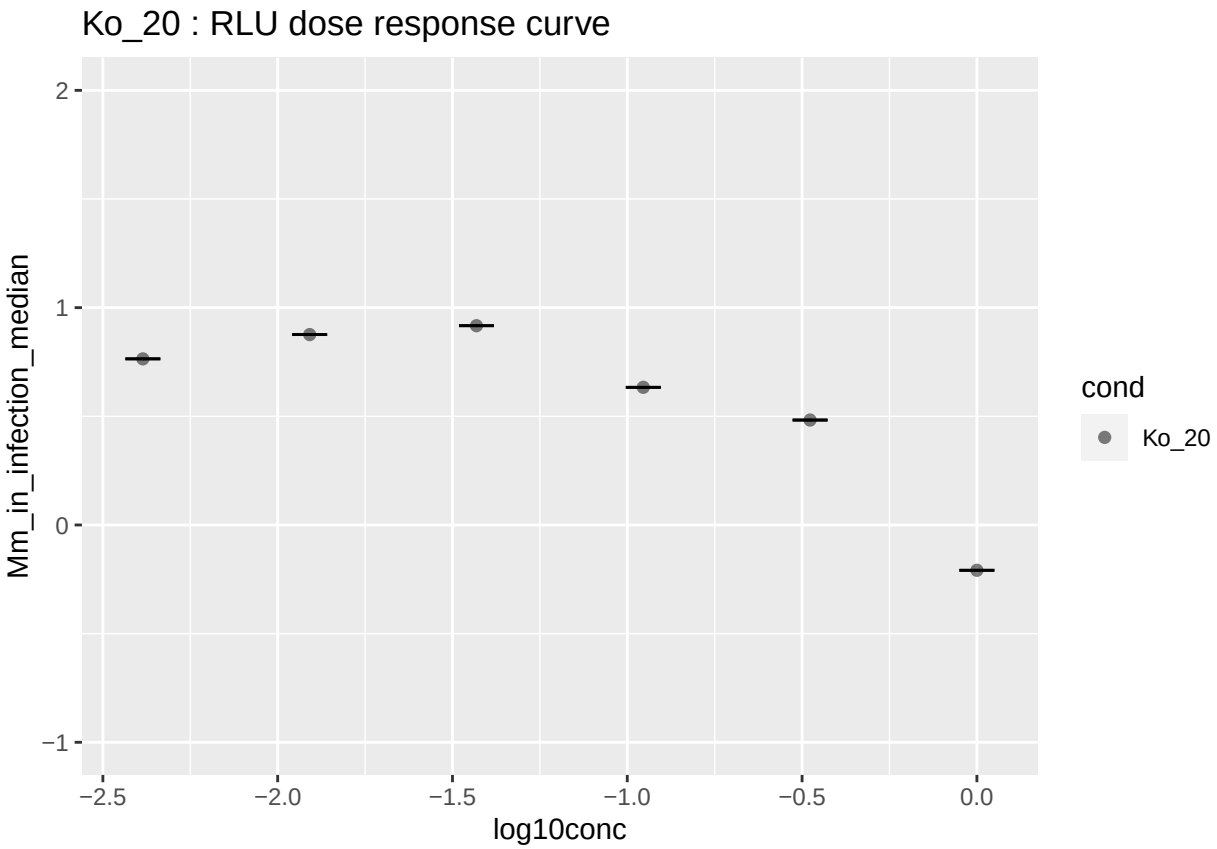

Ko_16 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_16

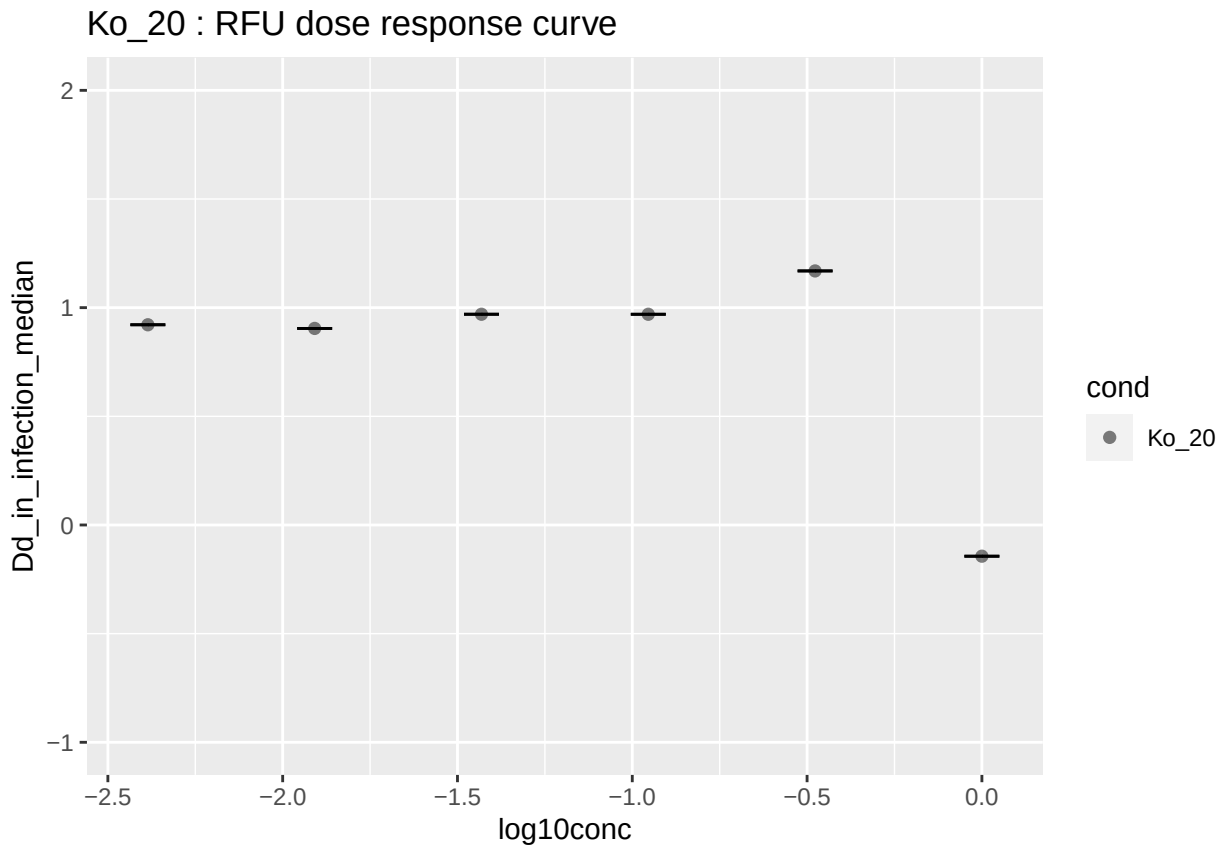

Ko_17 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

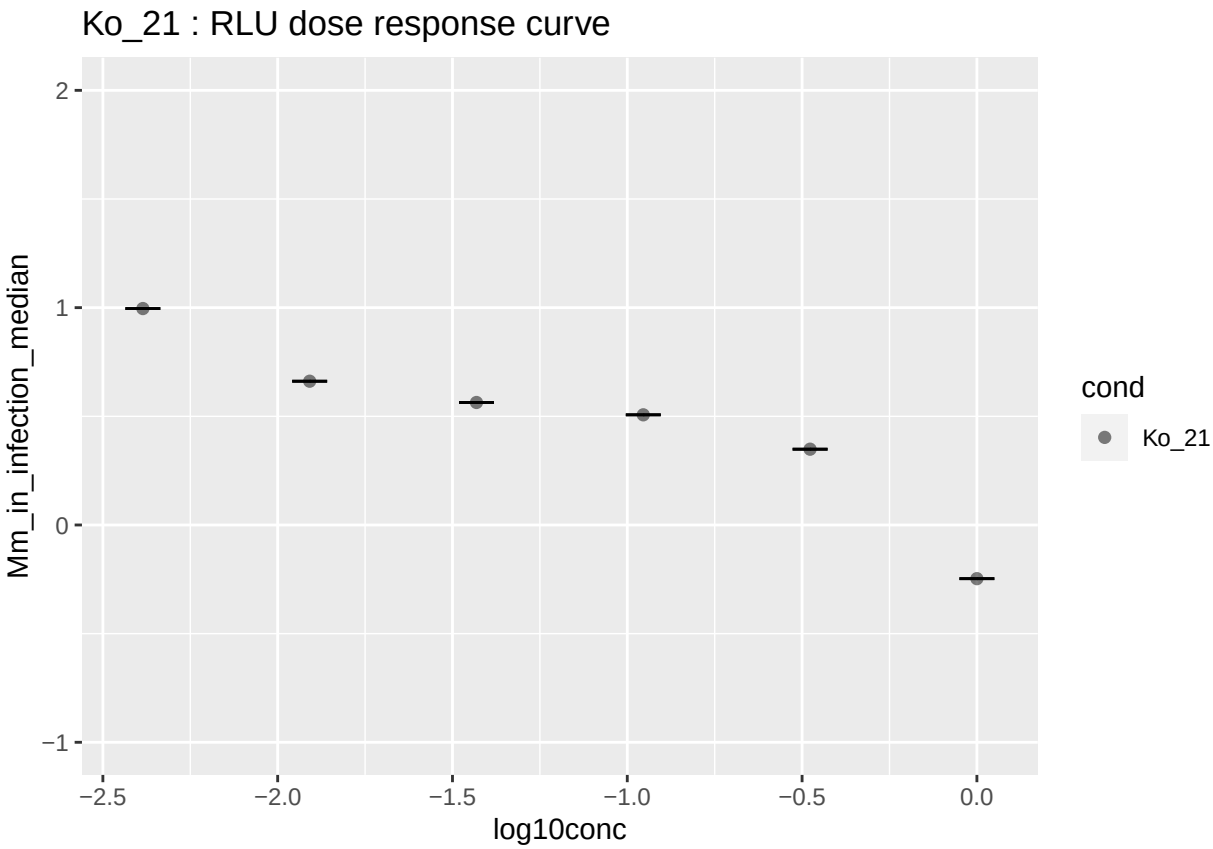

Ko_17 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_17

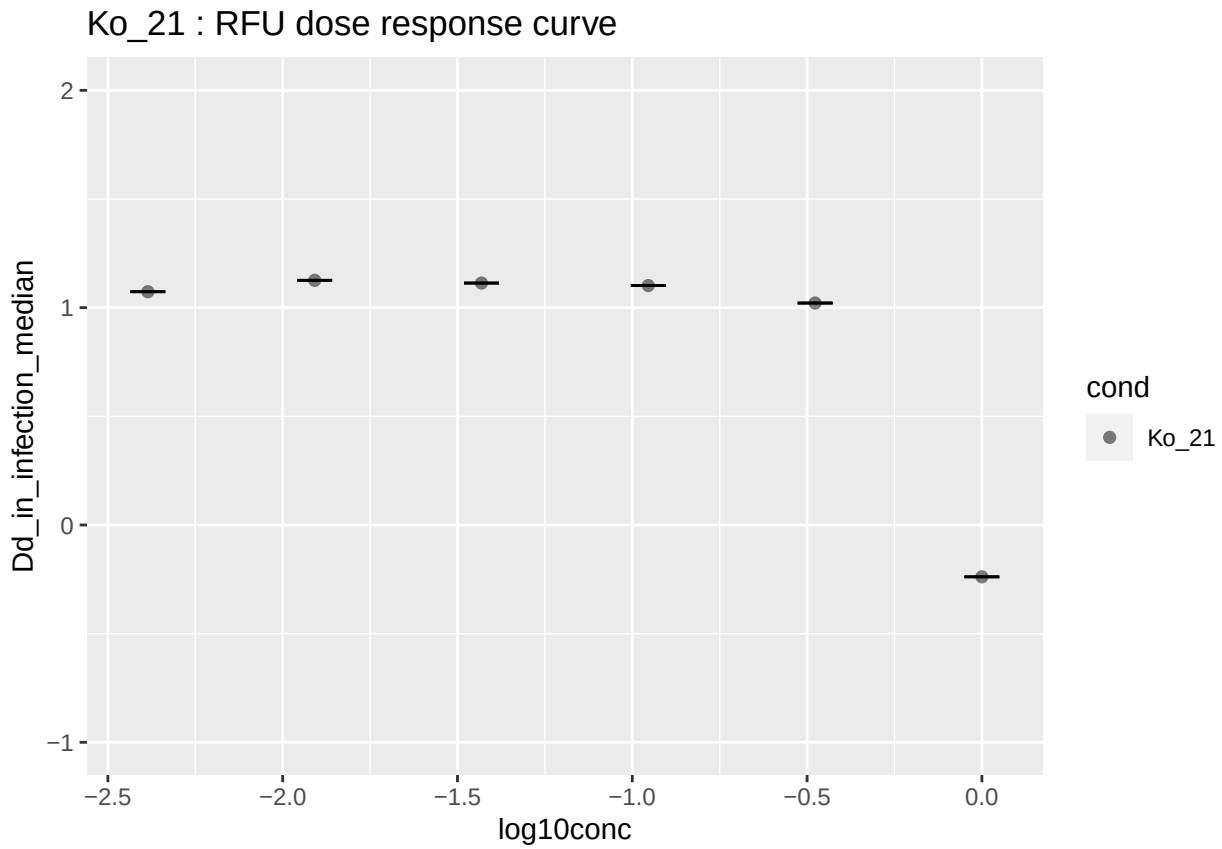

Ko_18 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

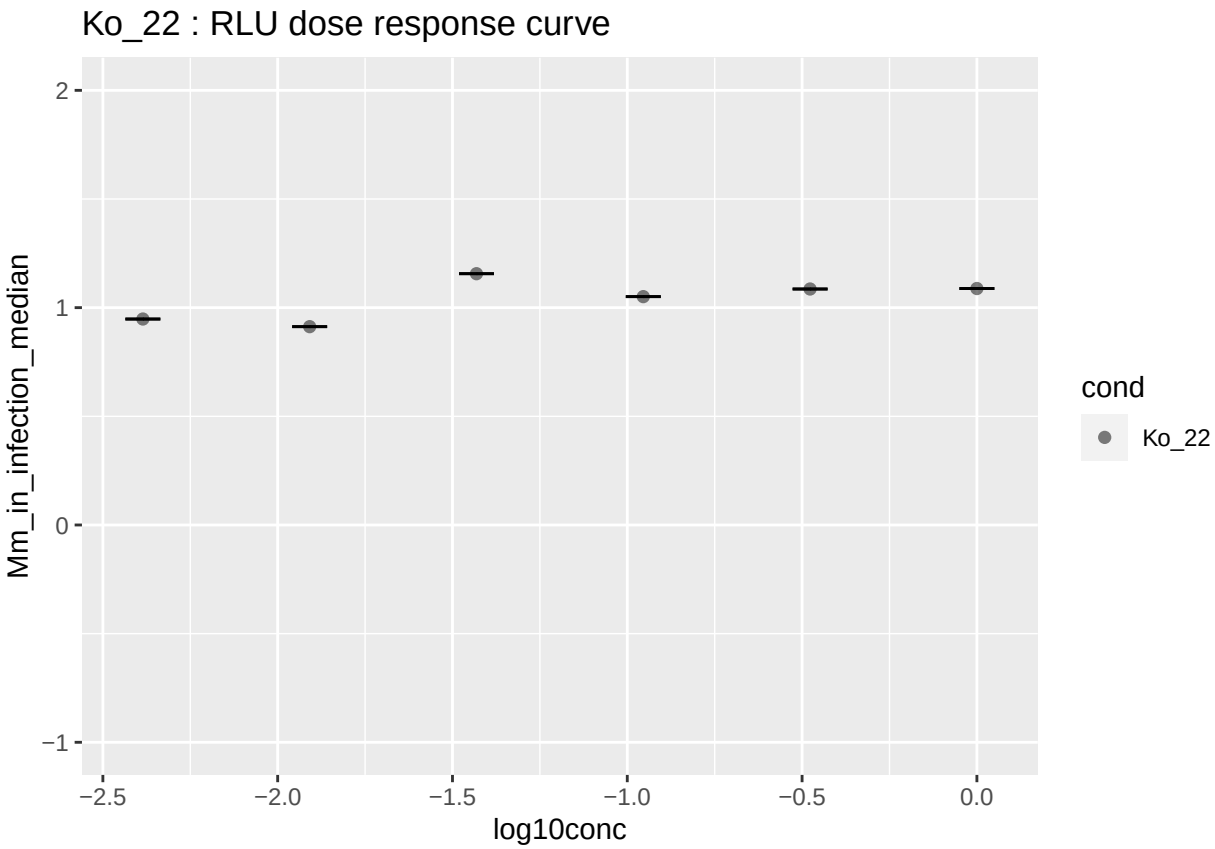

Ko_18 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_18

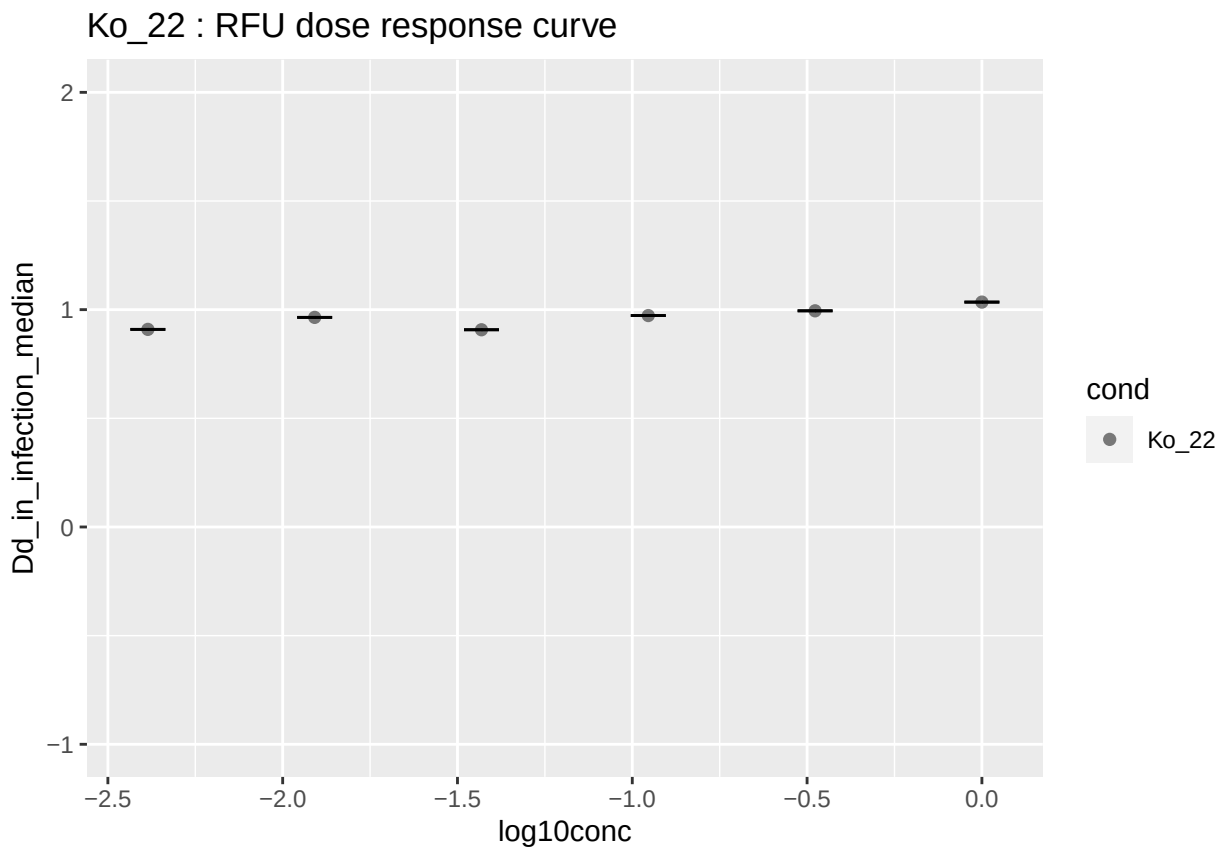

Ko_20 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

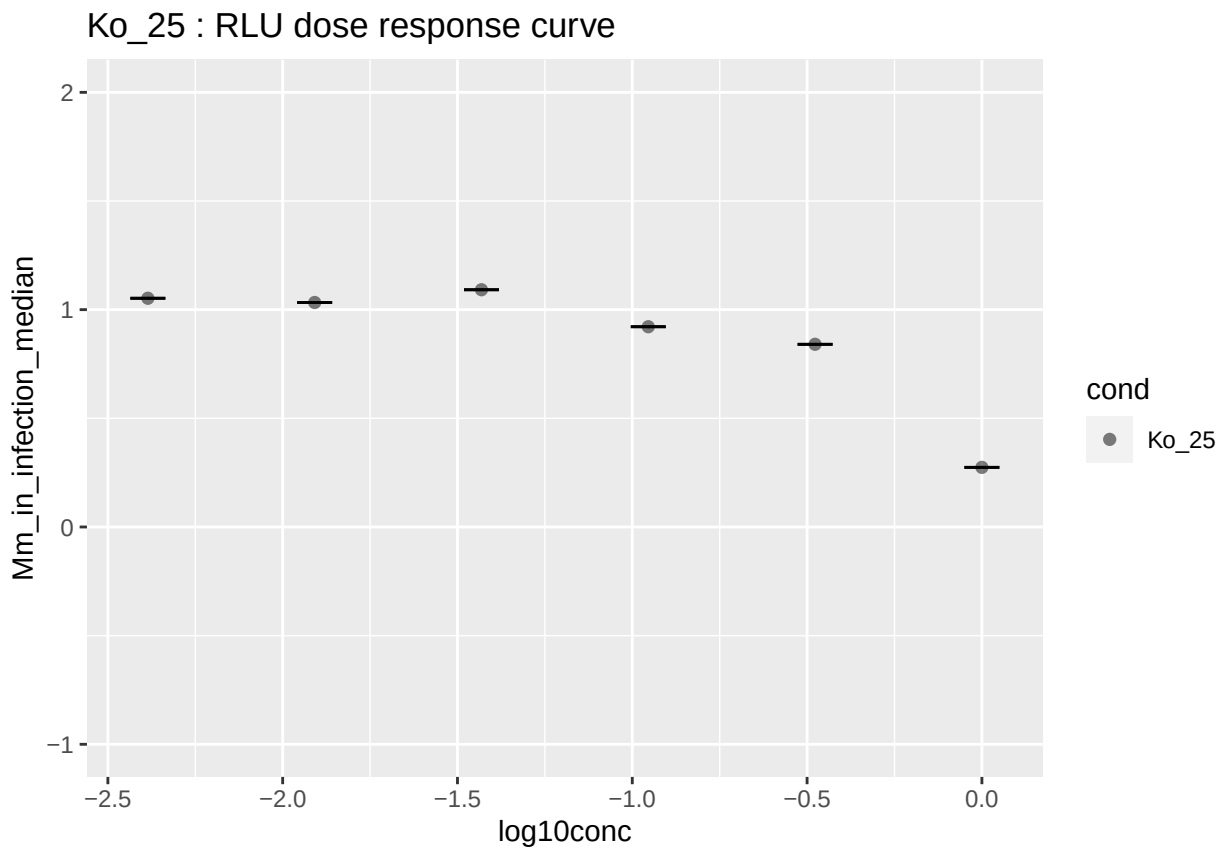

Ko_20 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_20

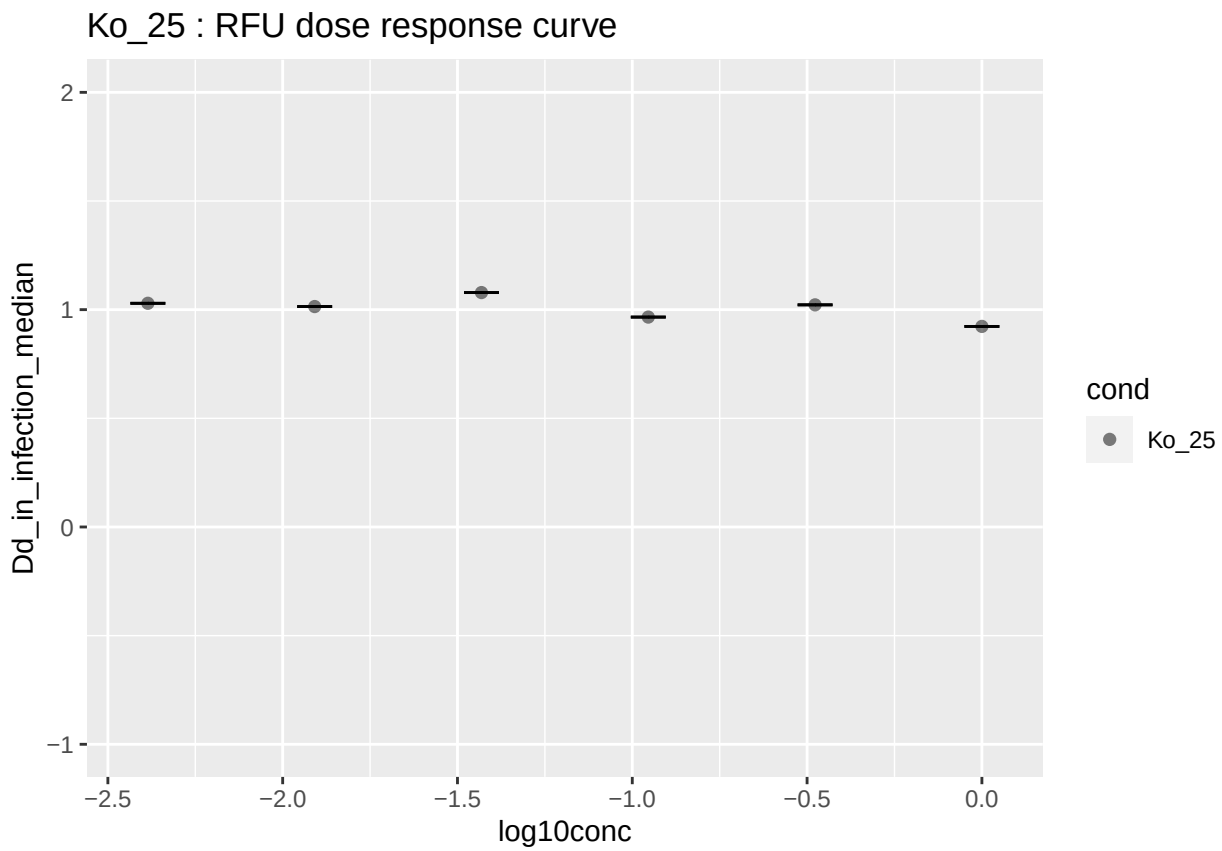

Ko_21 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

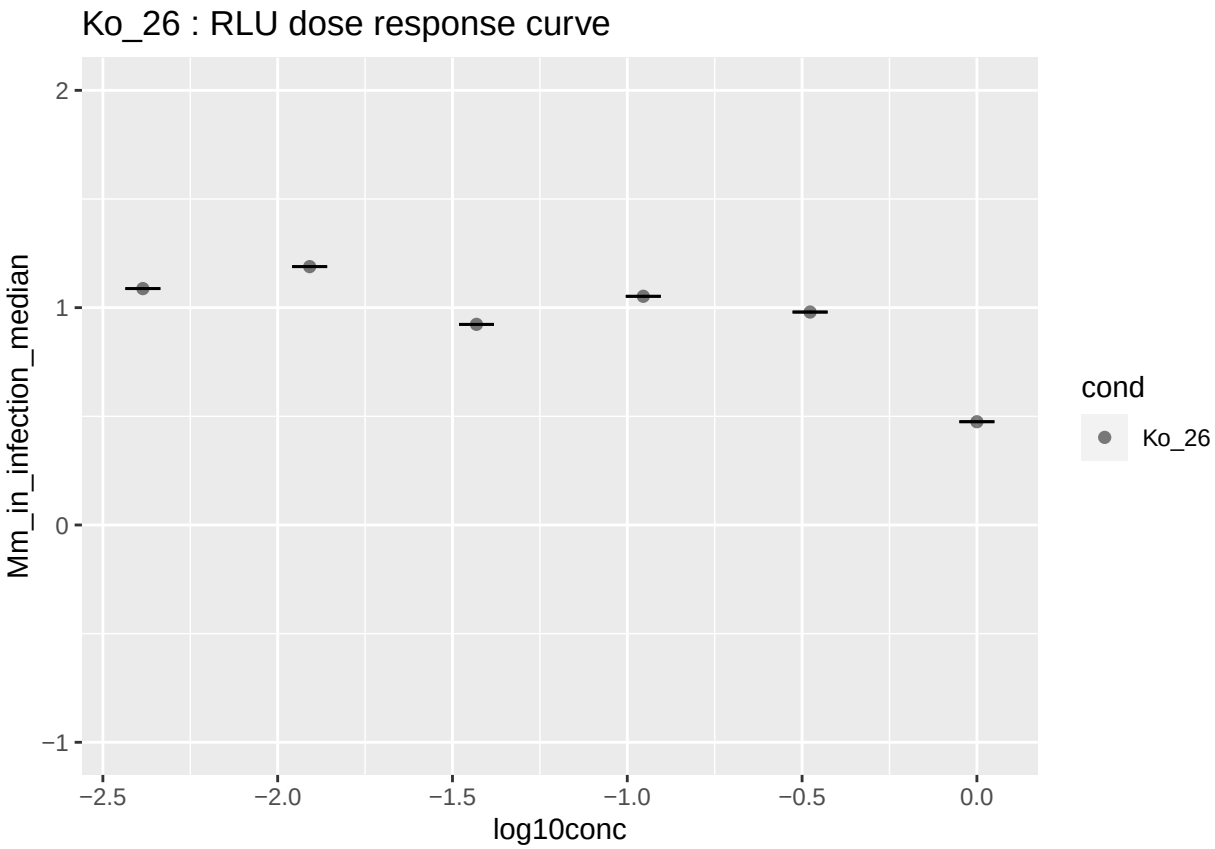

Ko_21 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_21

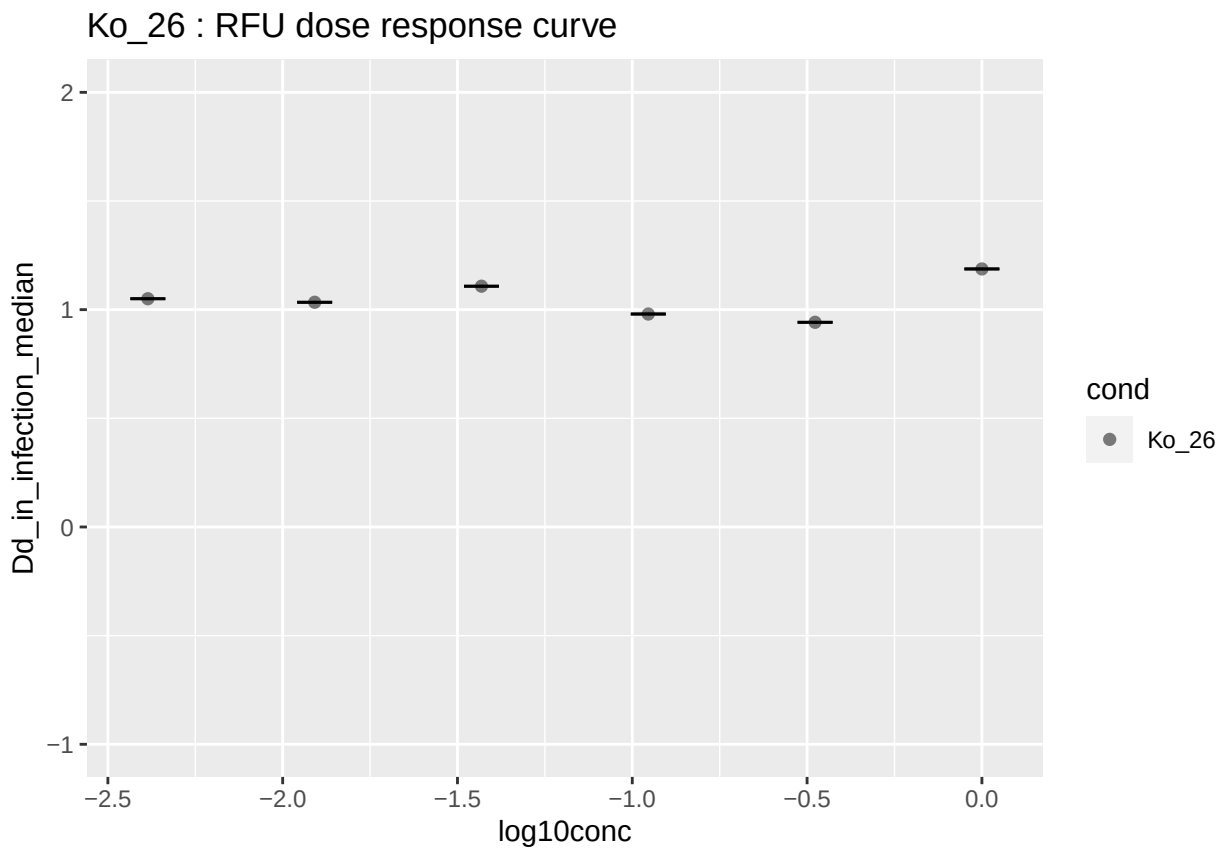

Ko_22 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

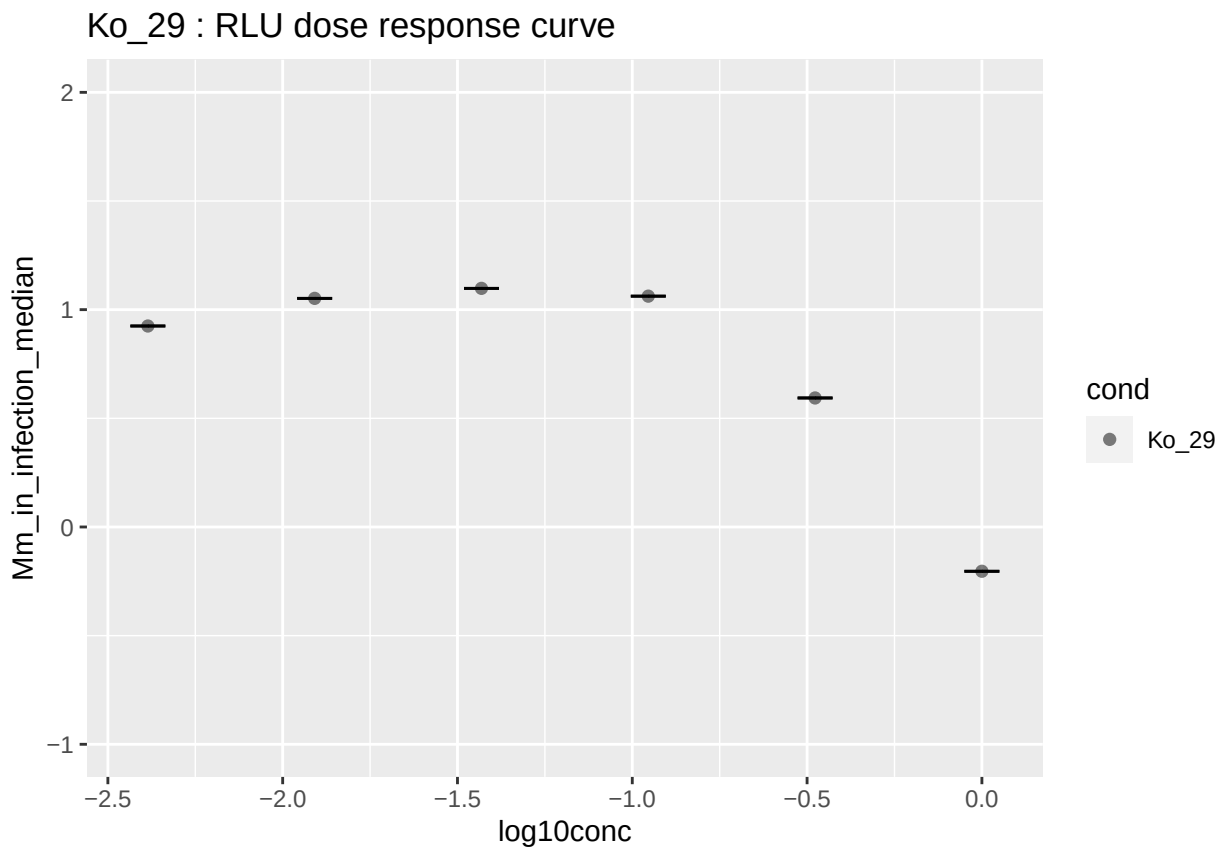

Ko_22 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_22

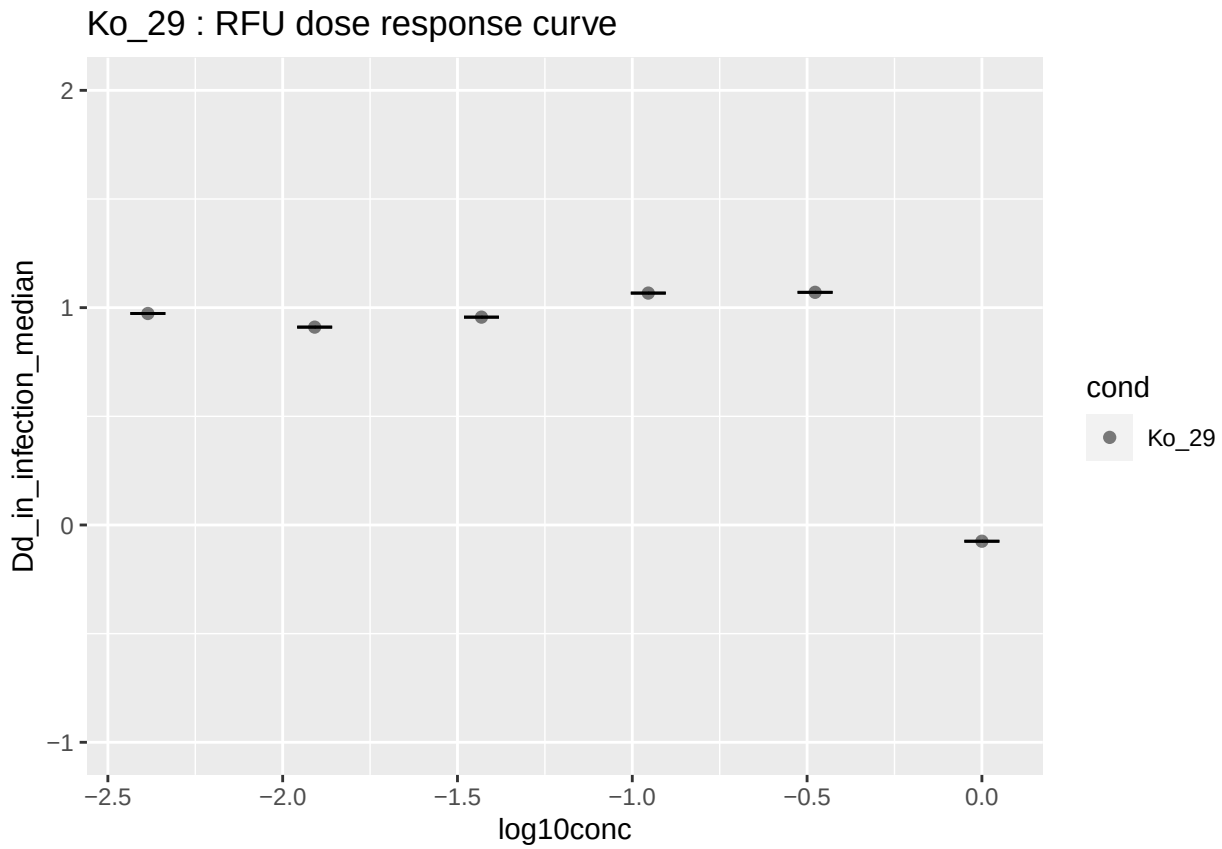

Ko_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

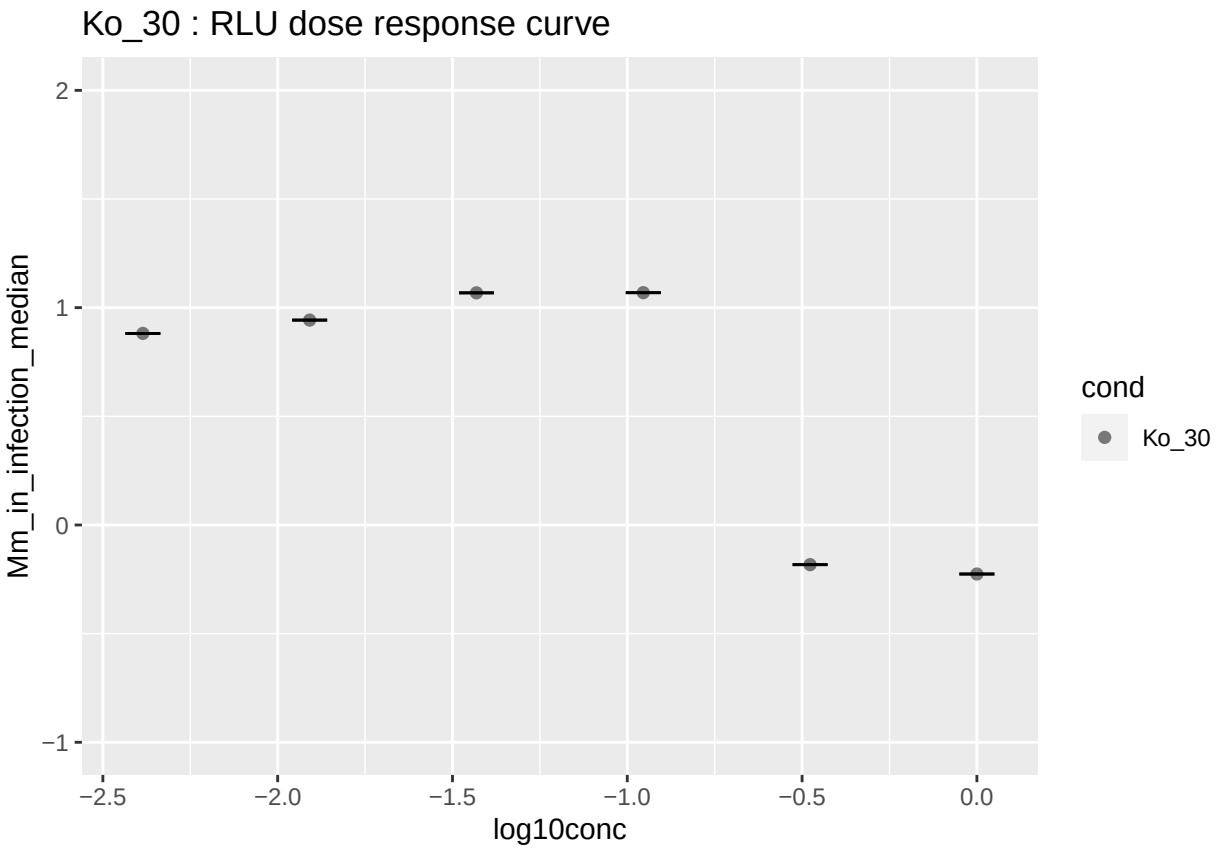

Ko_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_25

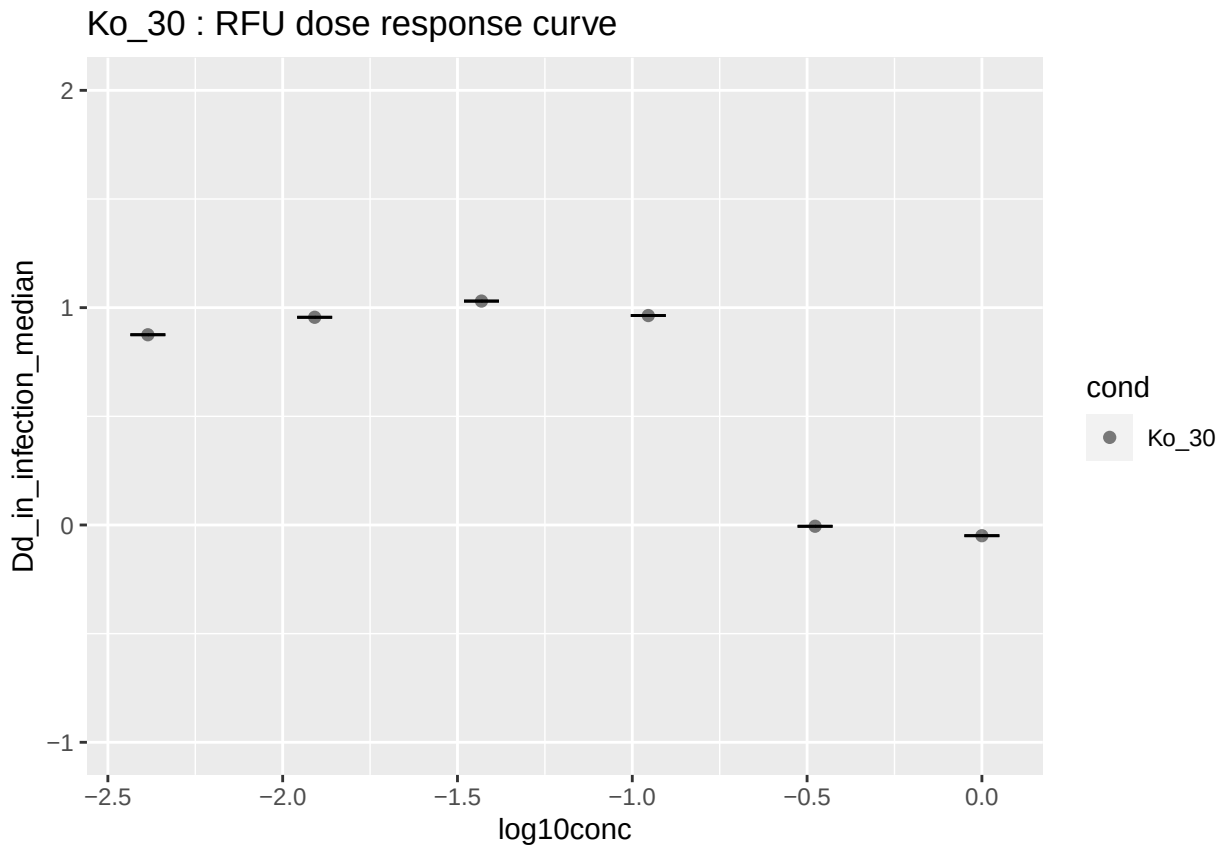

Ko_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

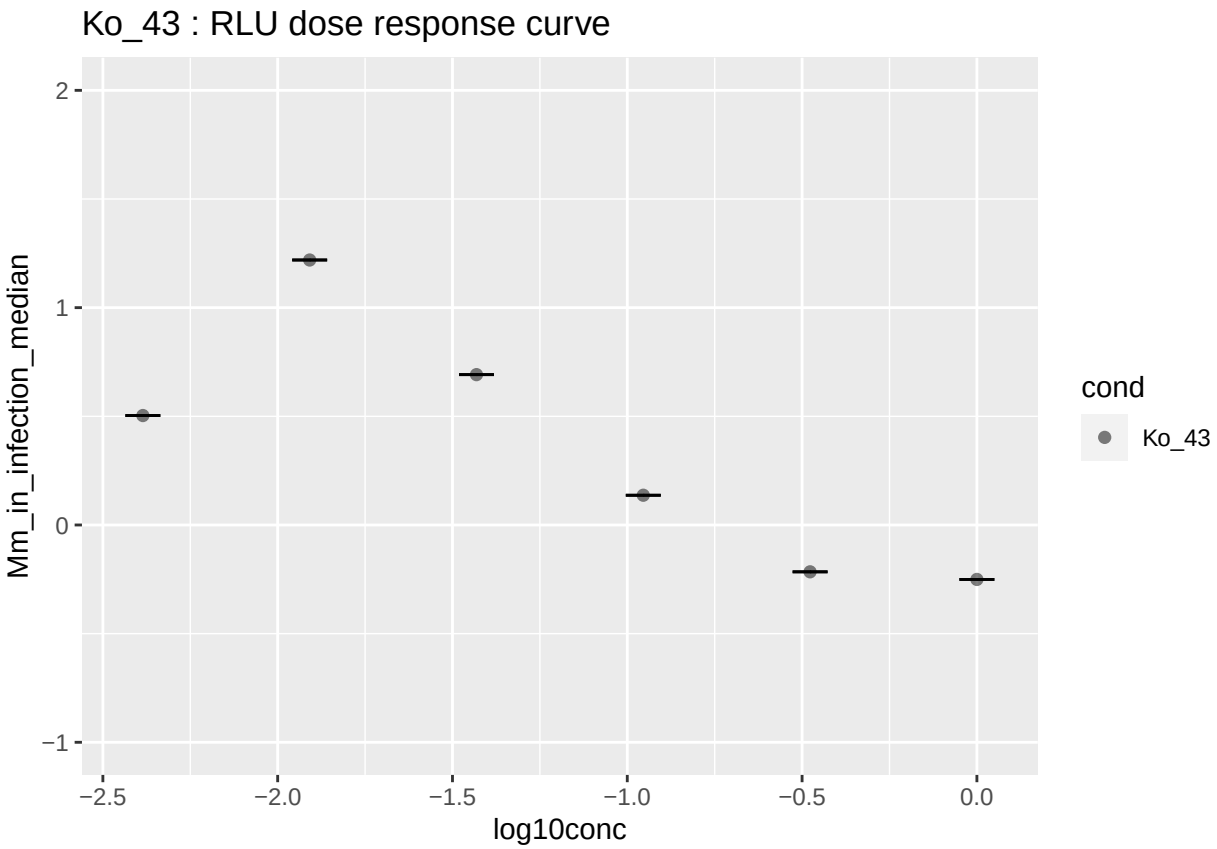

Ko_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_26

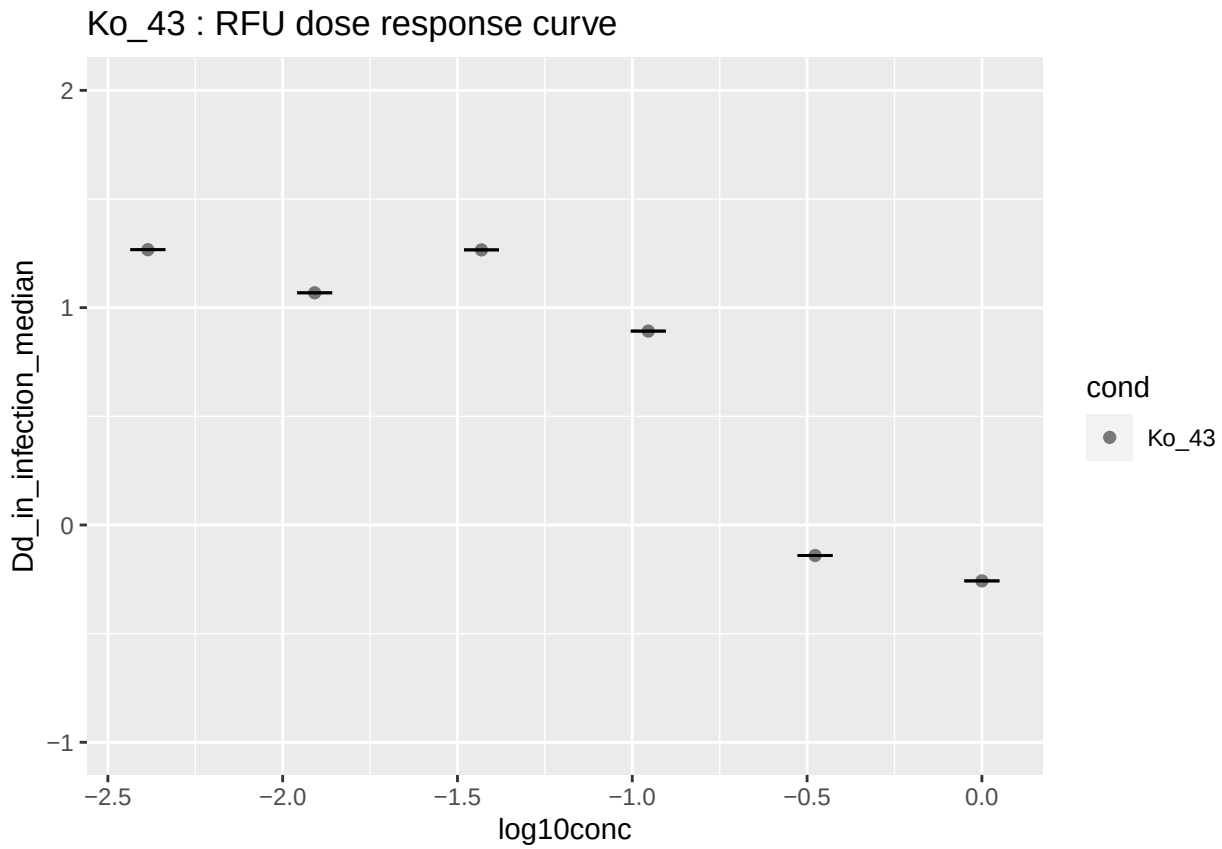

Ko_29 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

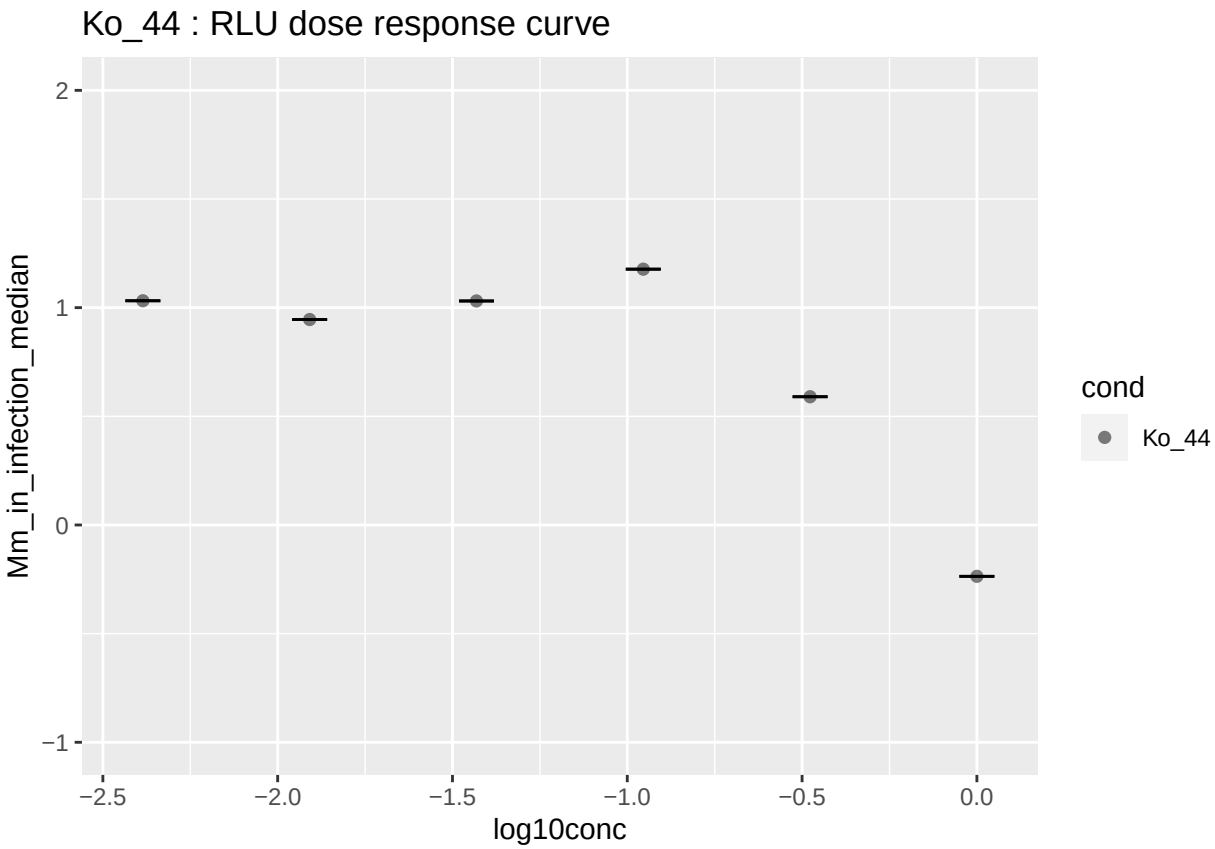

Ko_29 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_29

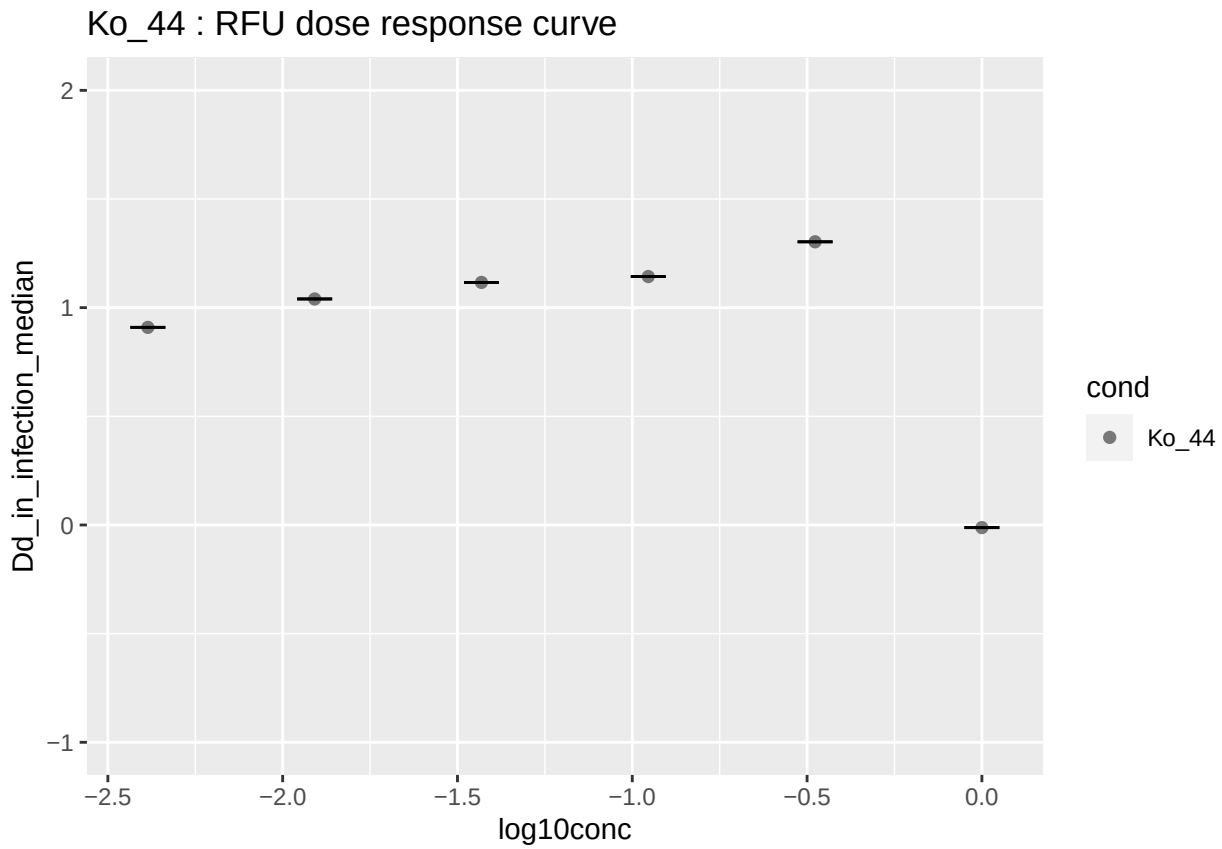

Ko_30 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

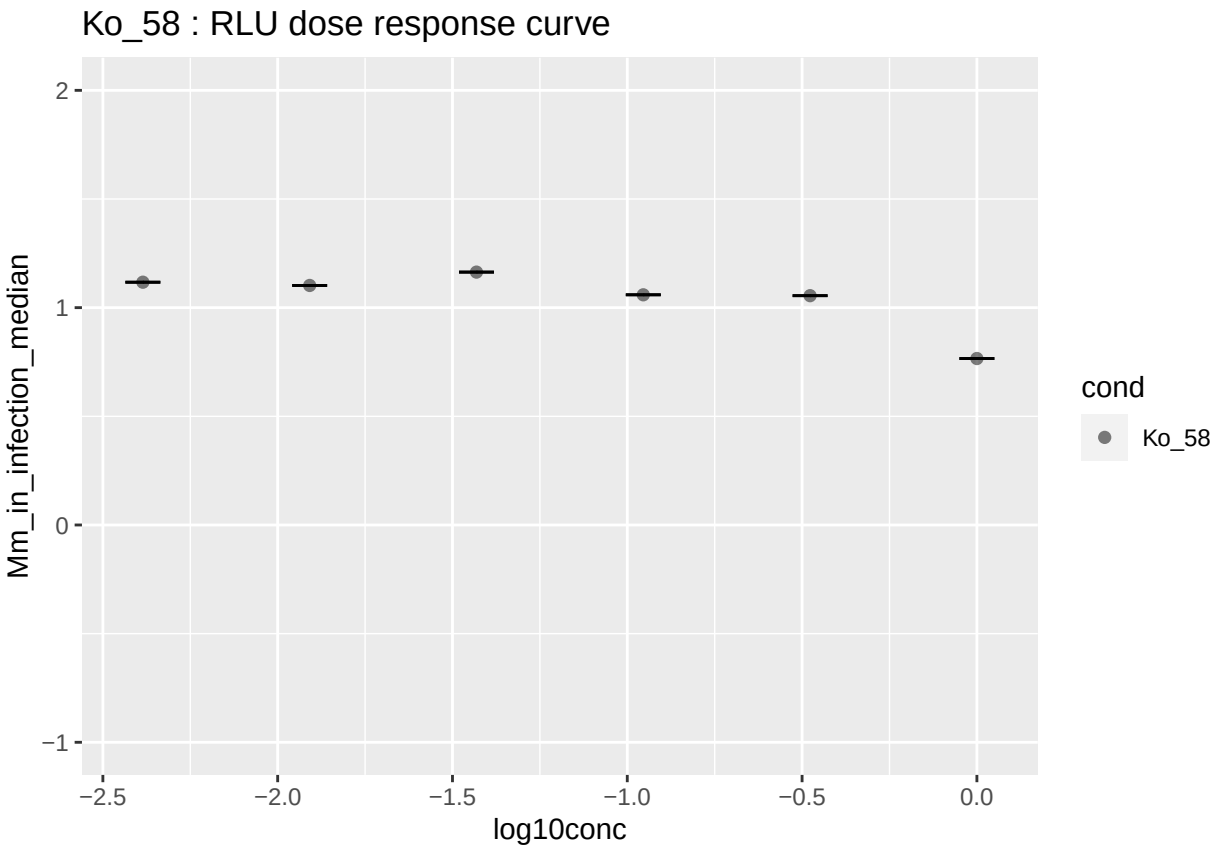

Ko_30 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_30

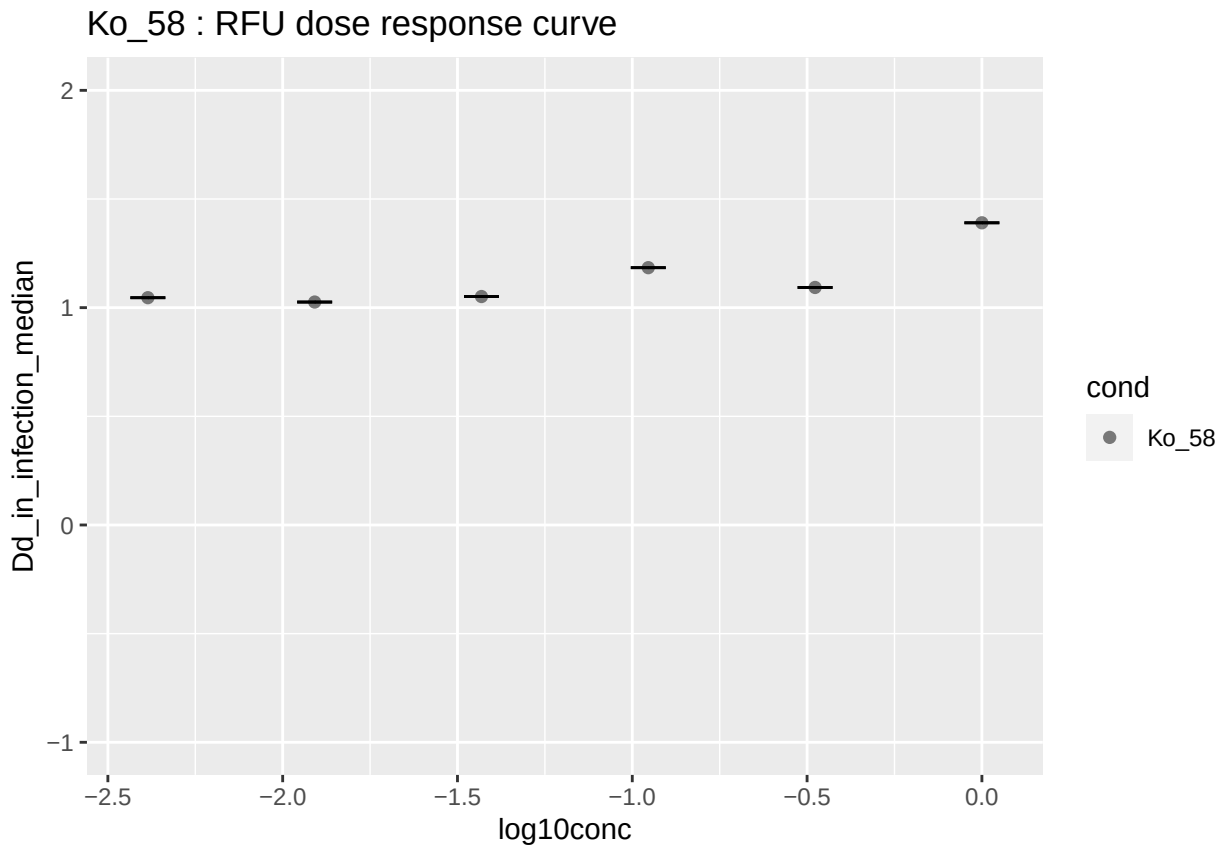

Ko_43 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

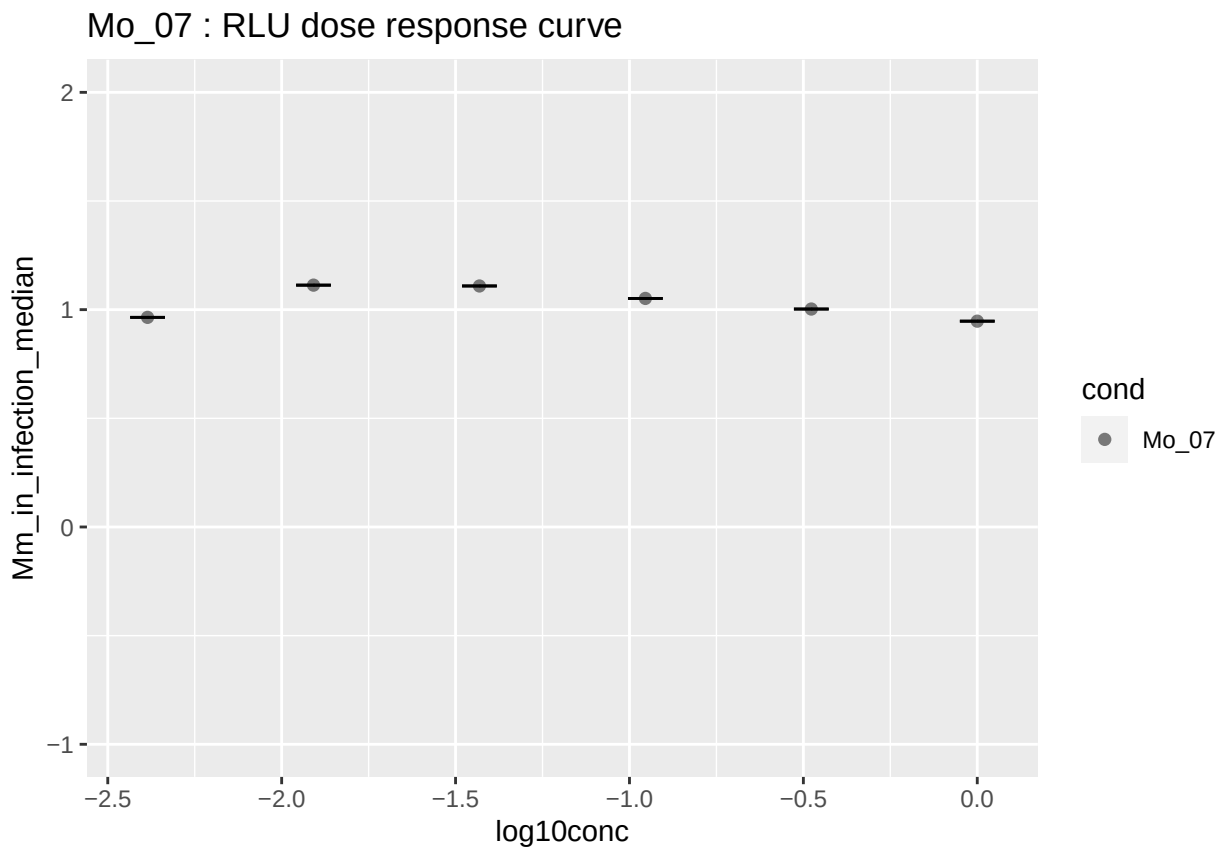

Ko_43 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_43

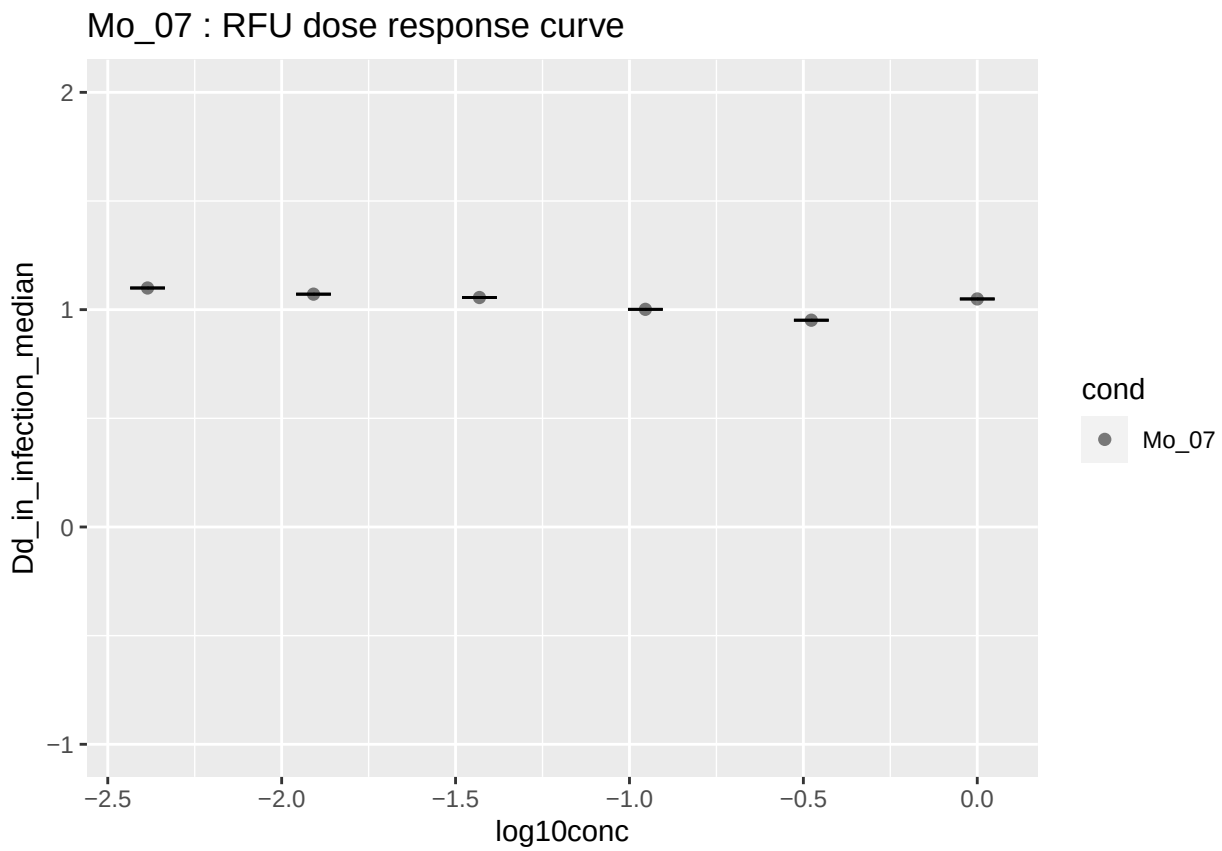

Ko_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

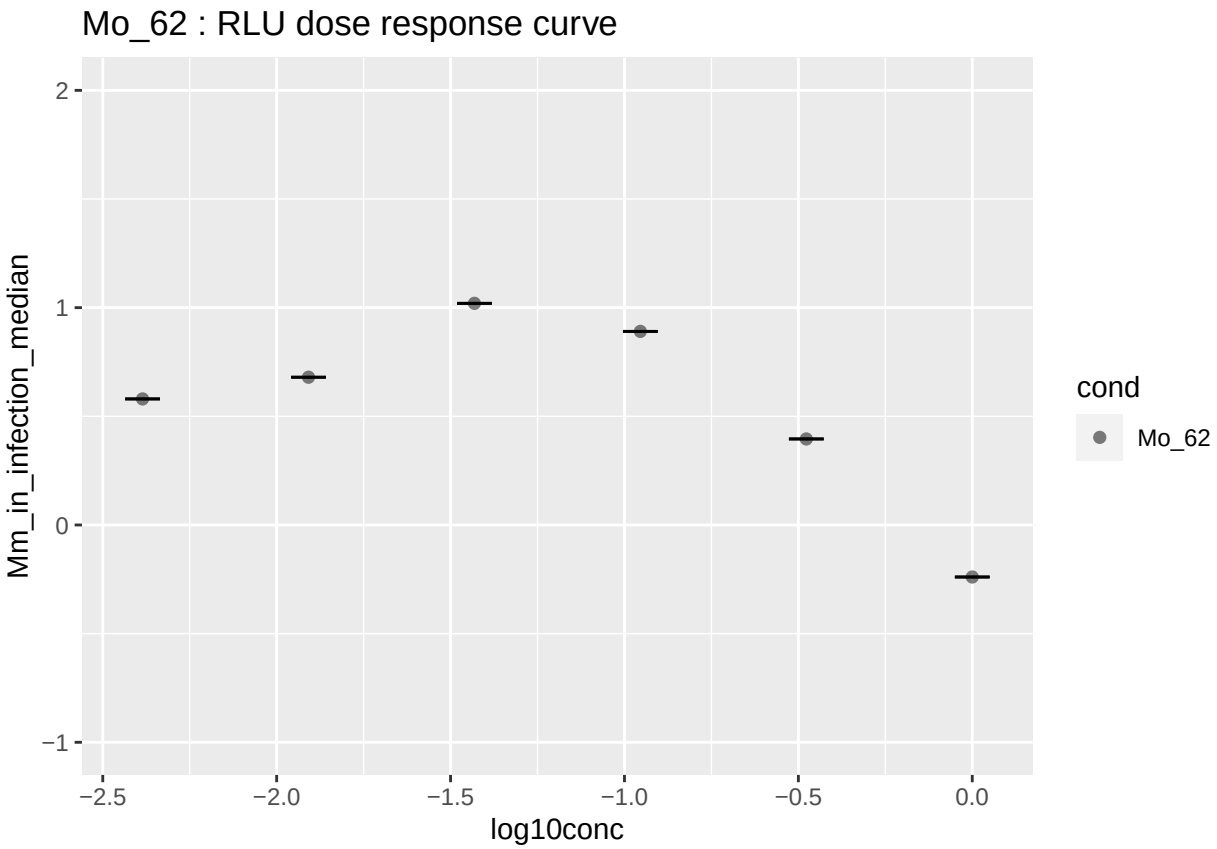

Ko_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_44

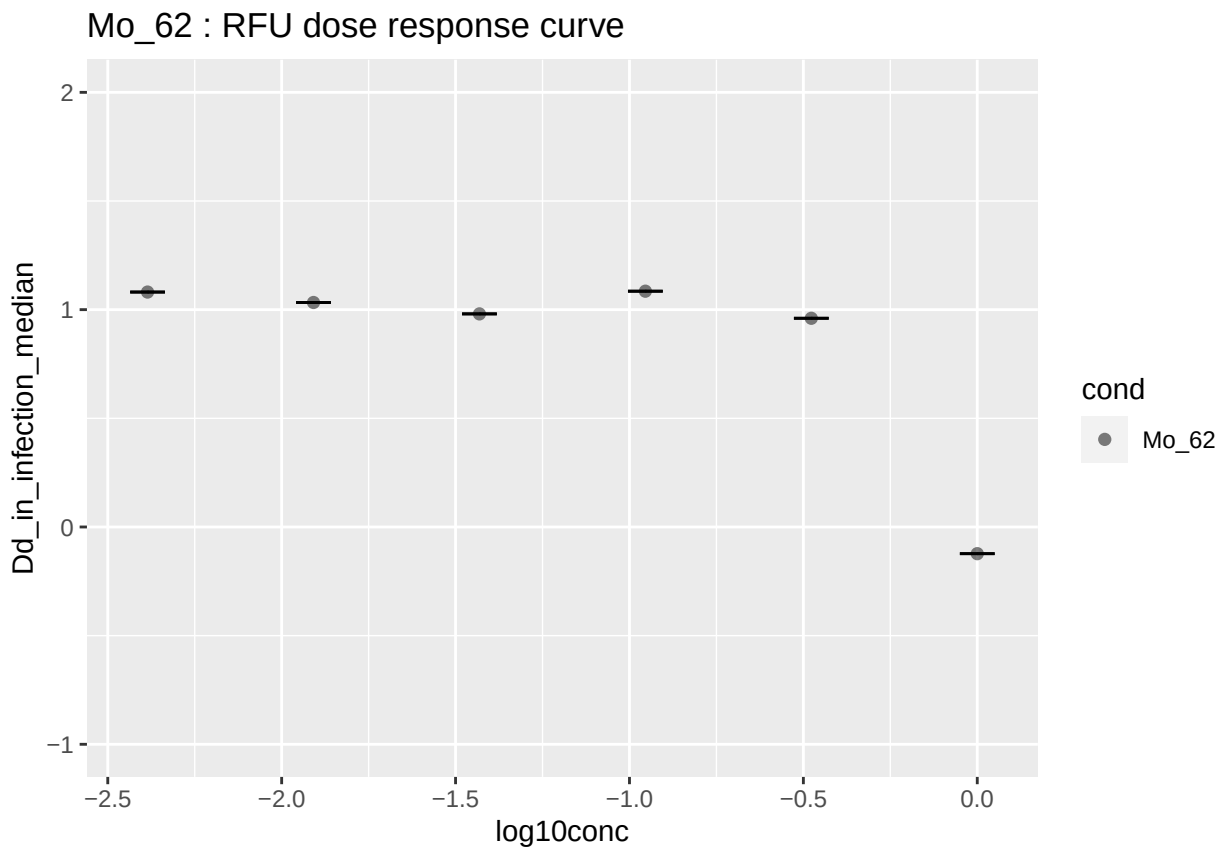

Ko_58 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

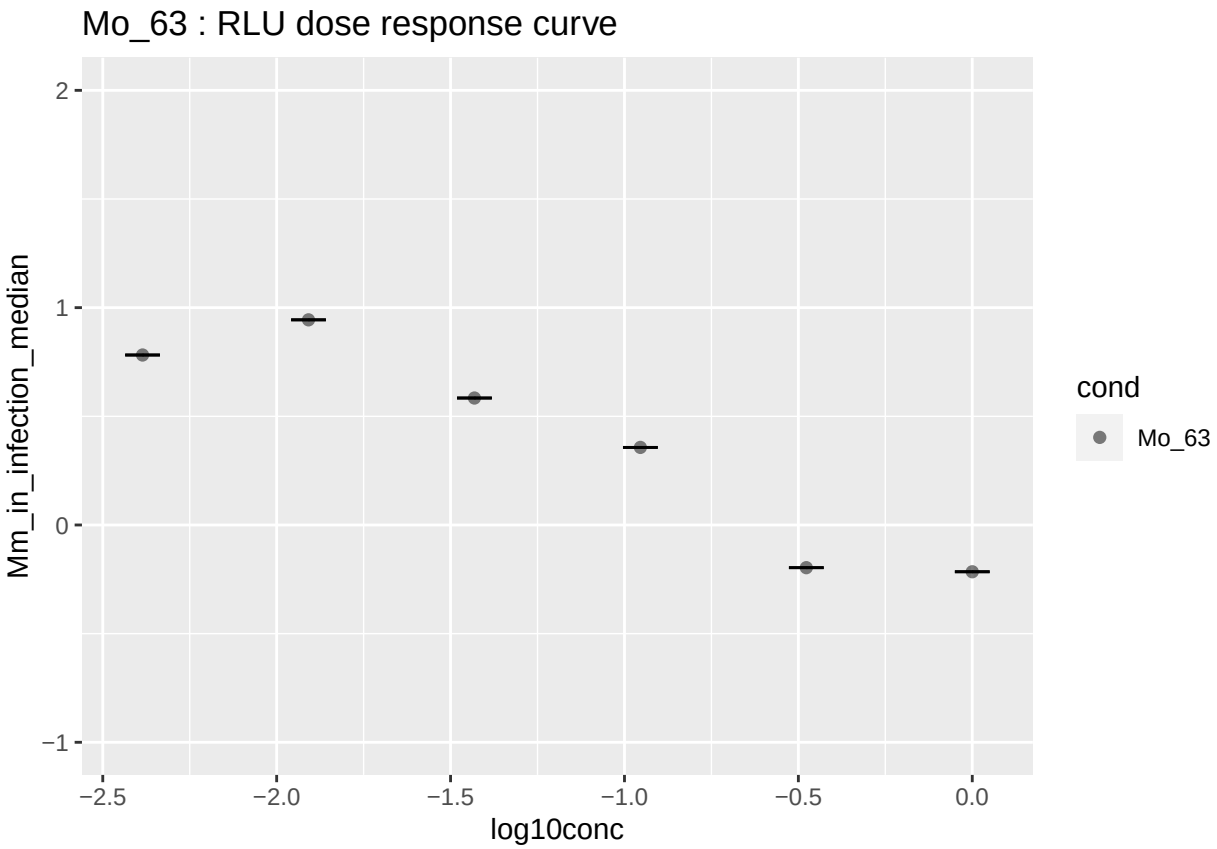

Ko_58 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Ko_58

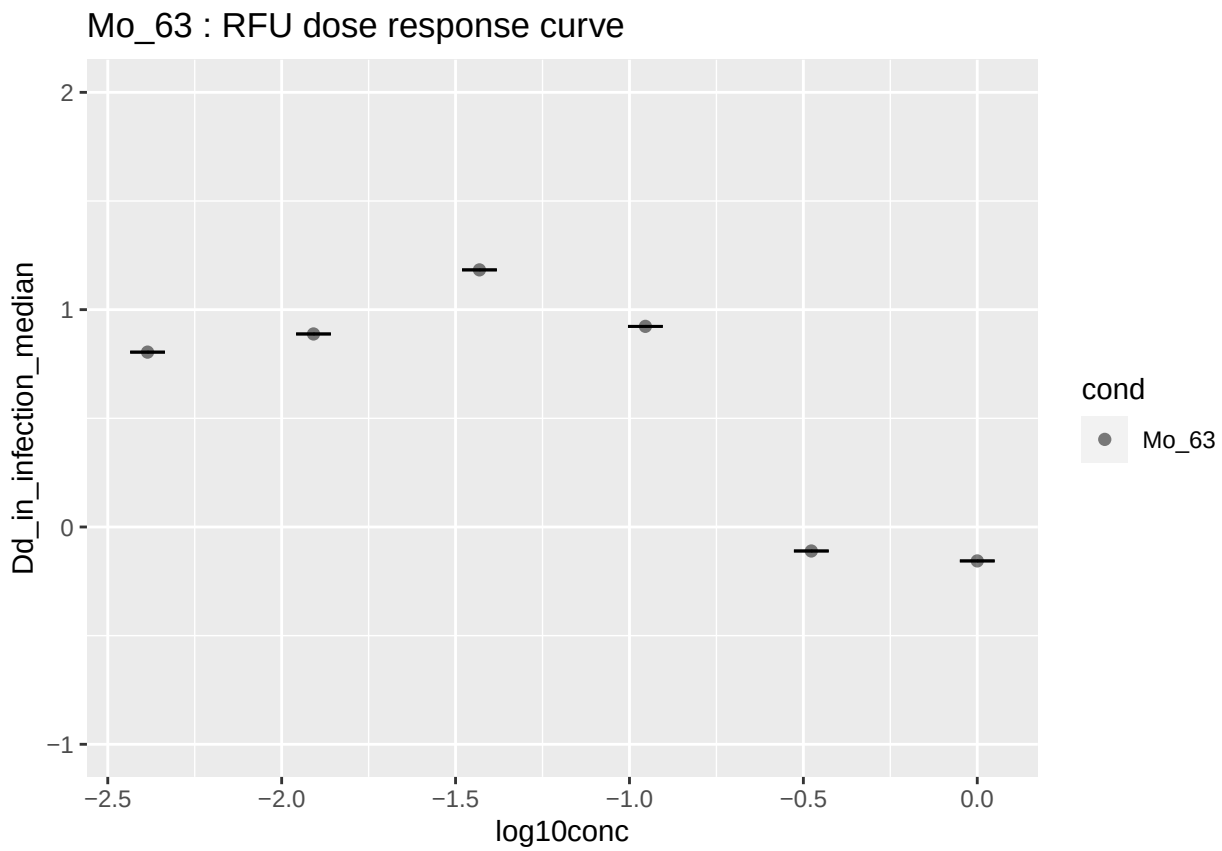

Mo_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

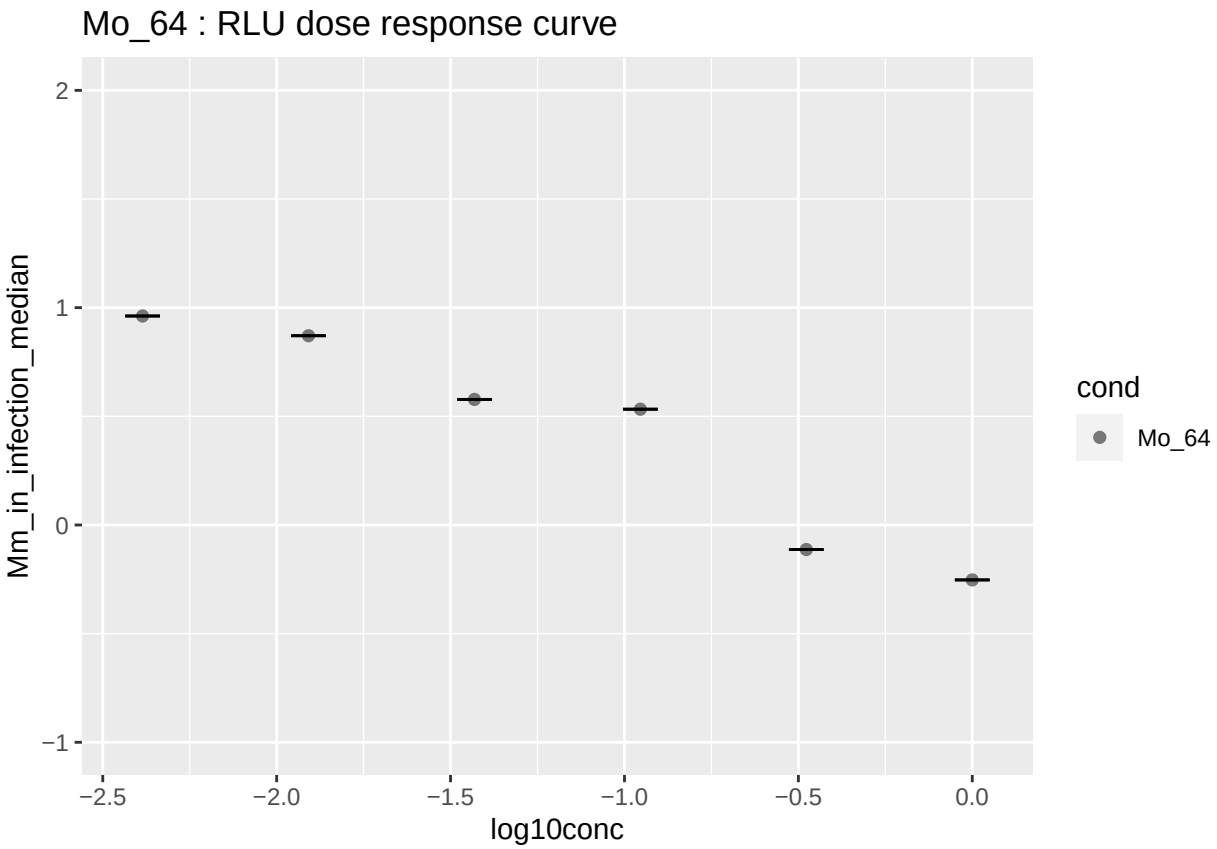

Mo_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_07

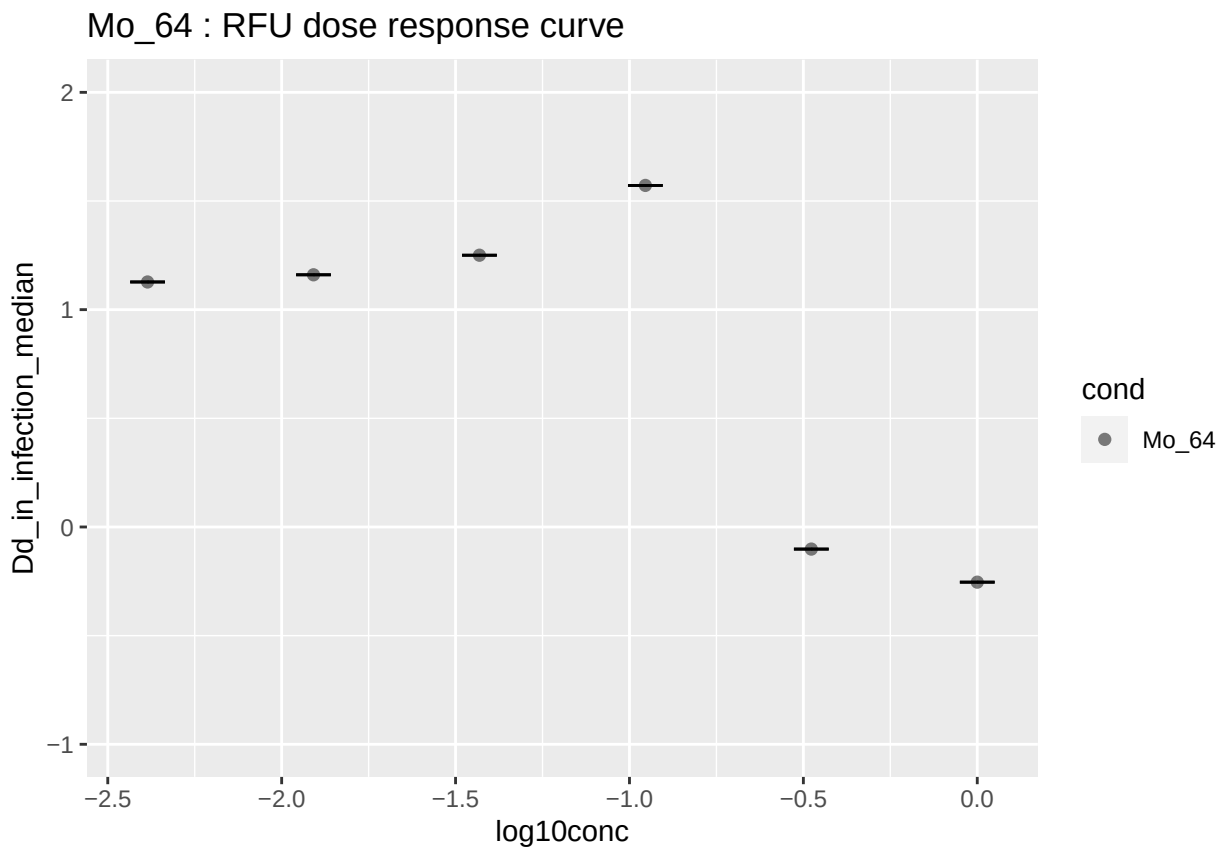

Mo_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

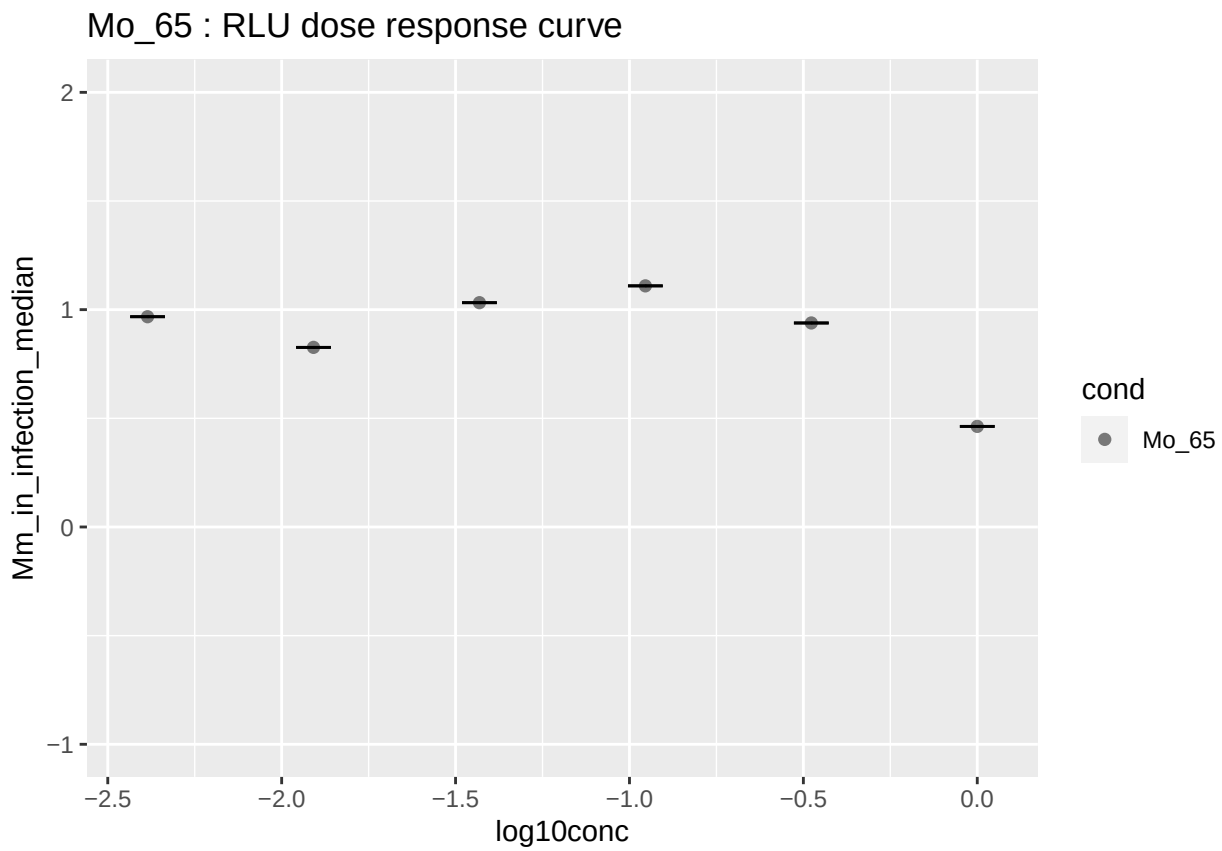

Mo_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_62

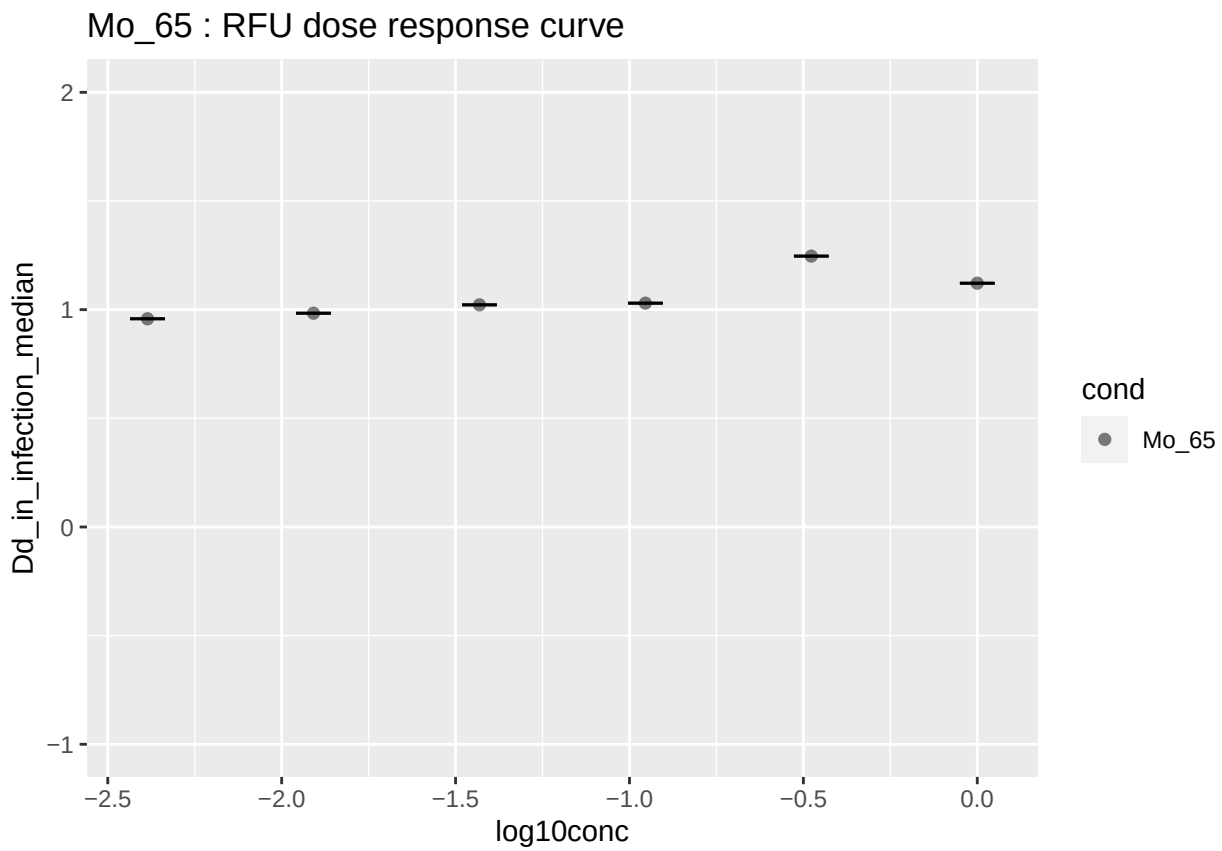

Mo_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

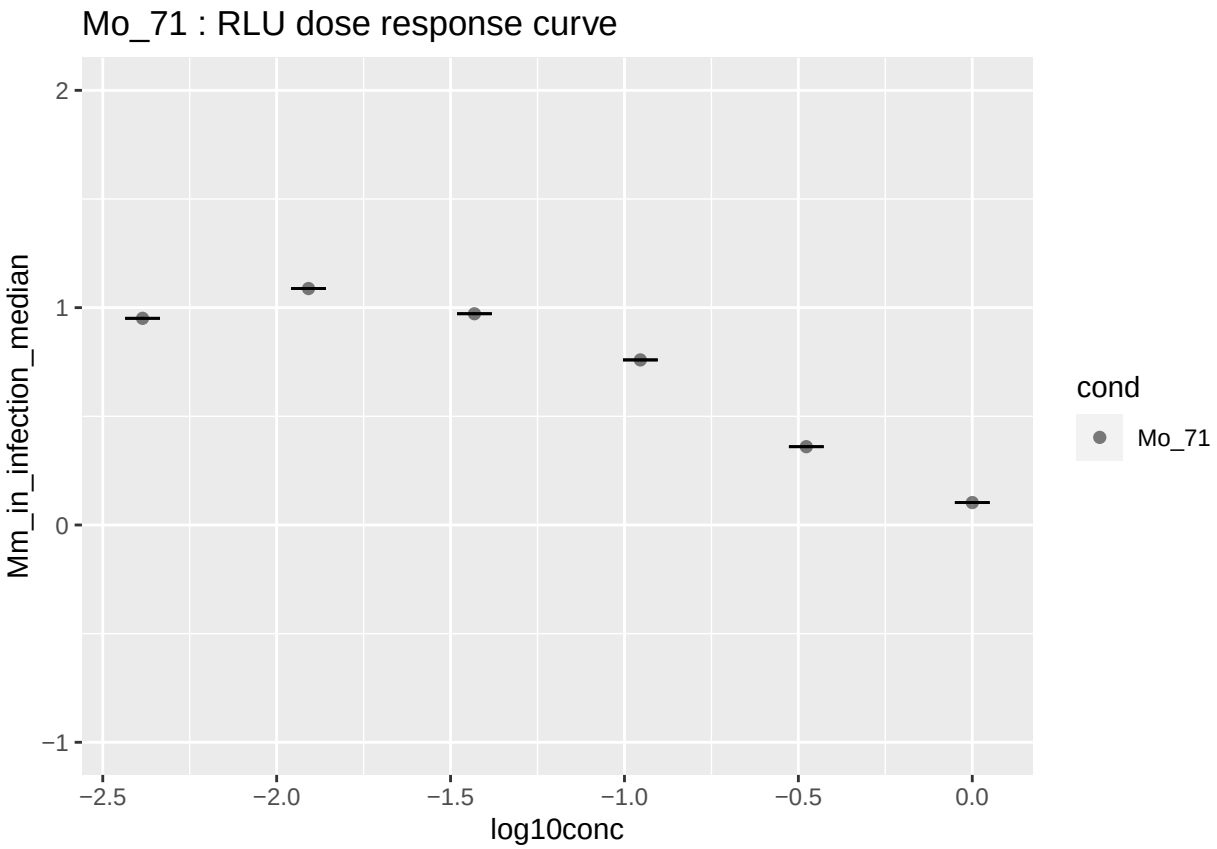

Mo_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_63

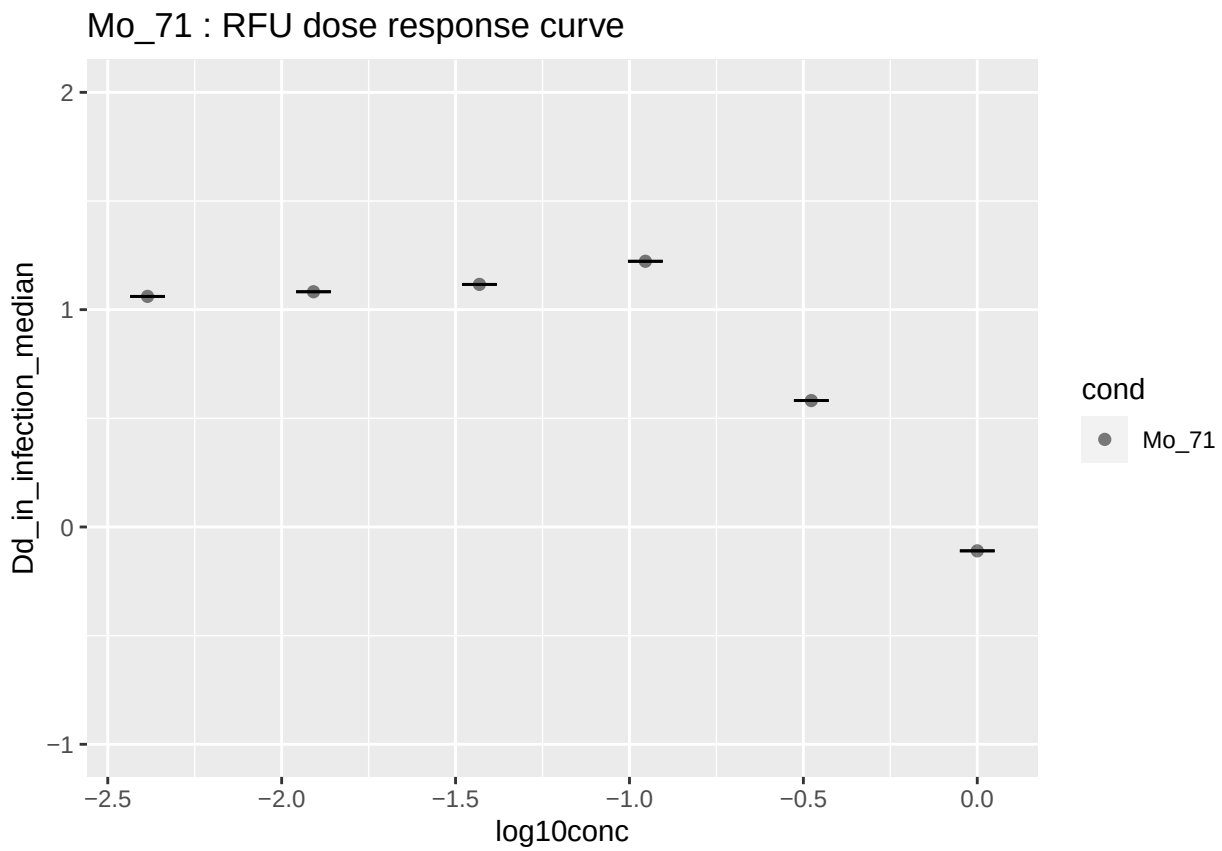

Mo_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

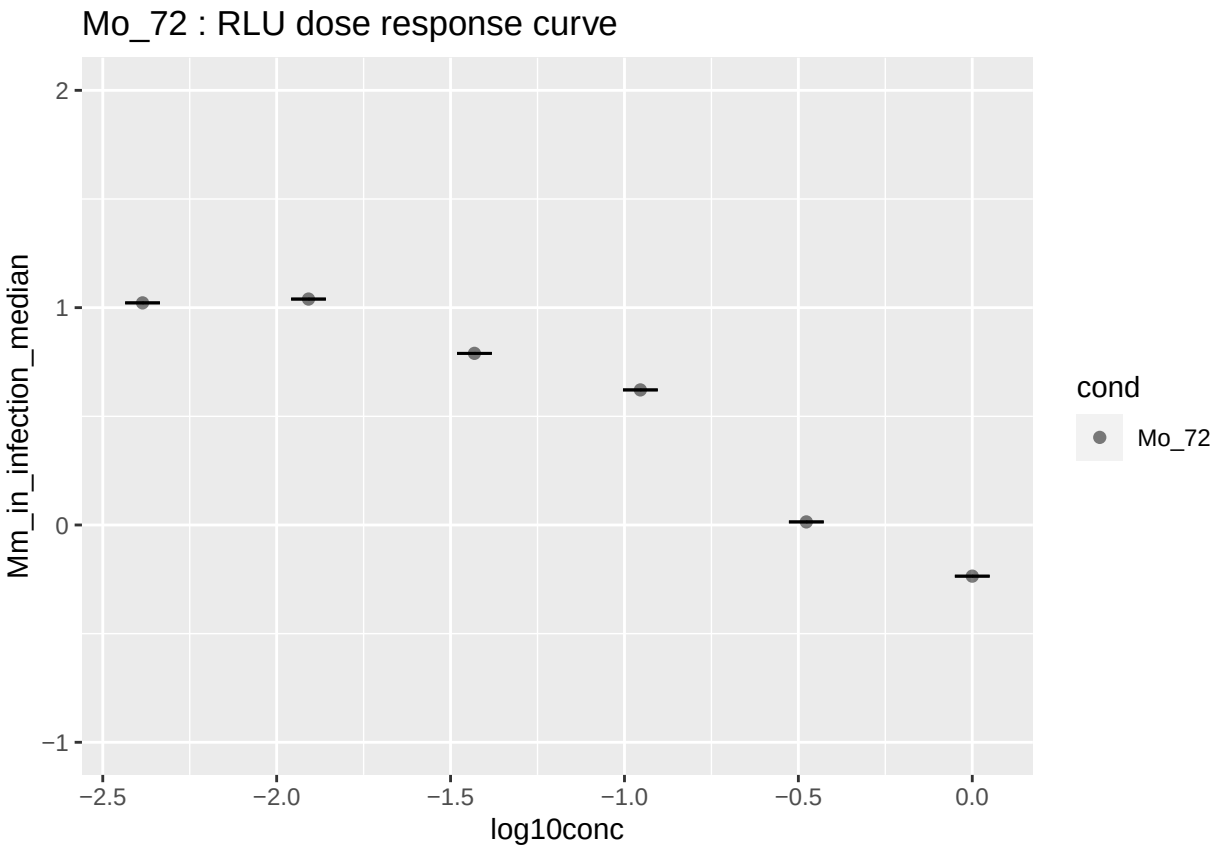

Mo_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_64

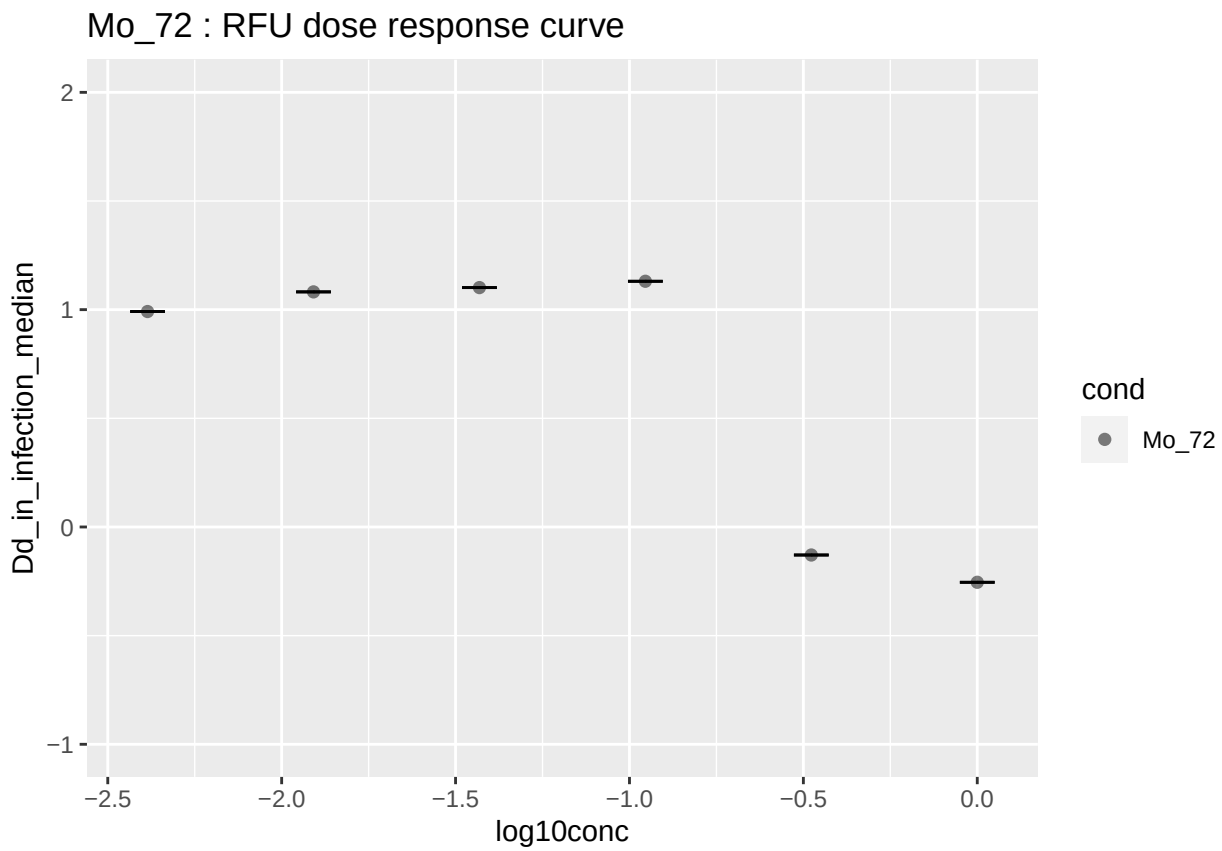

Mo_65 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

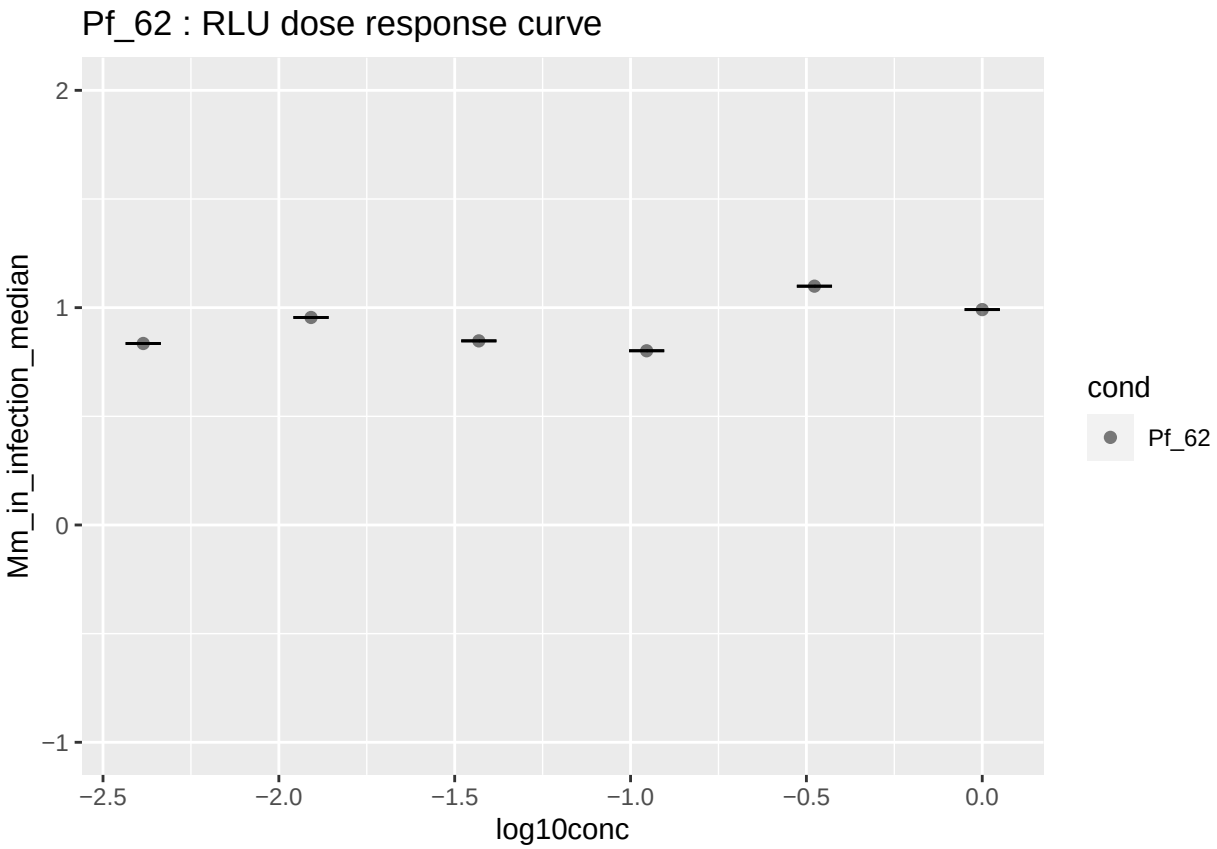

Mo_65 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_65

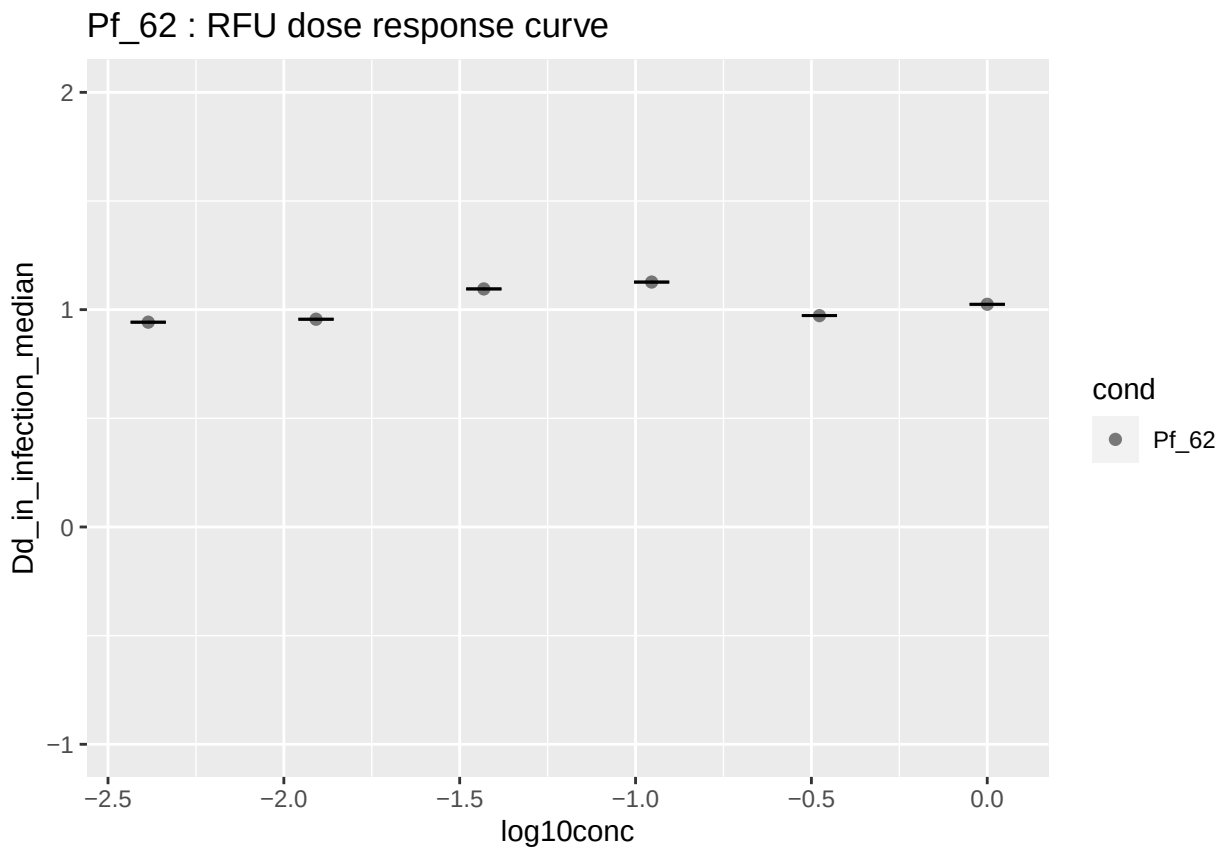

Mo_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

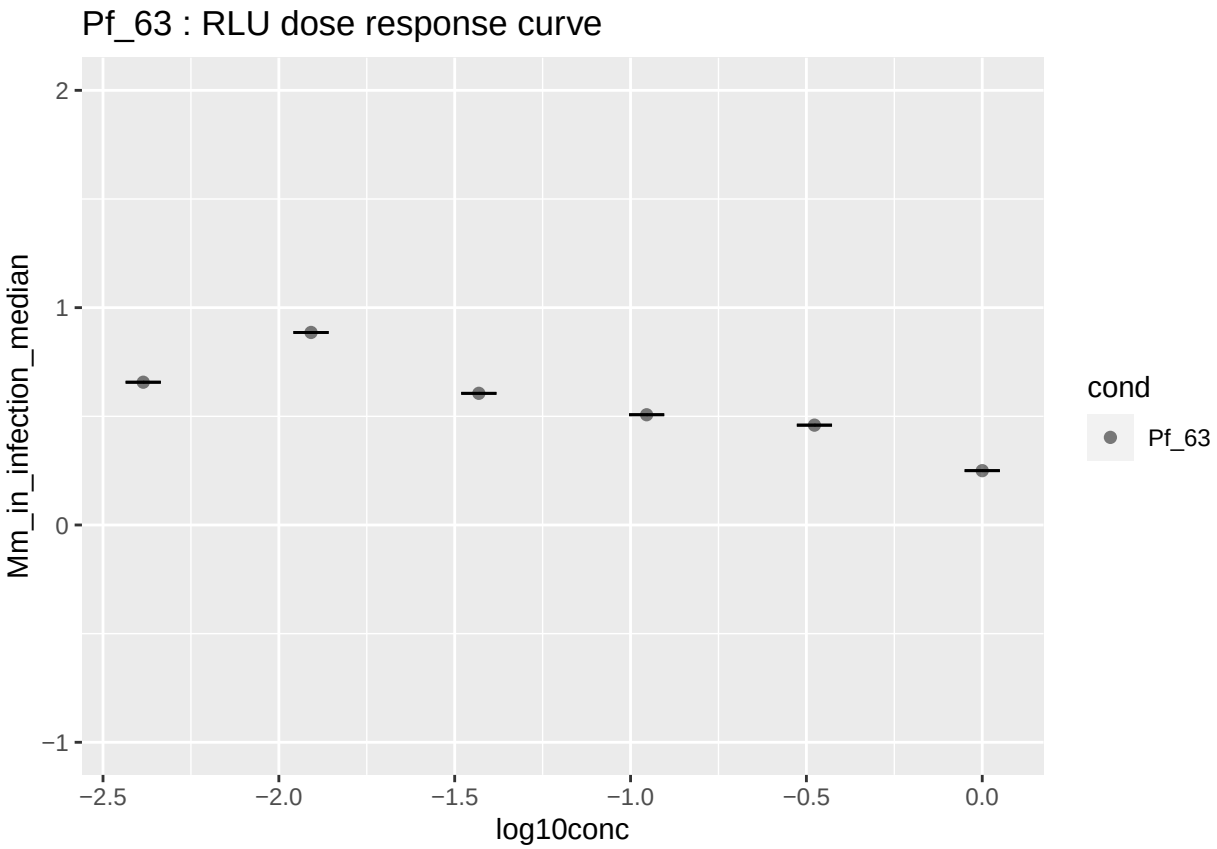

Mo_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_71

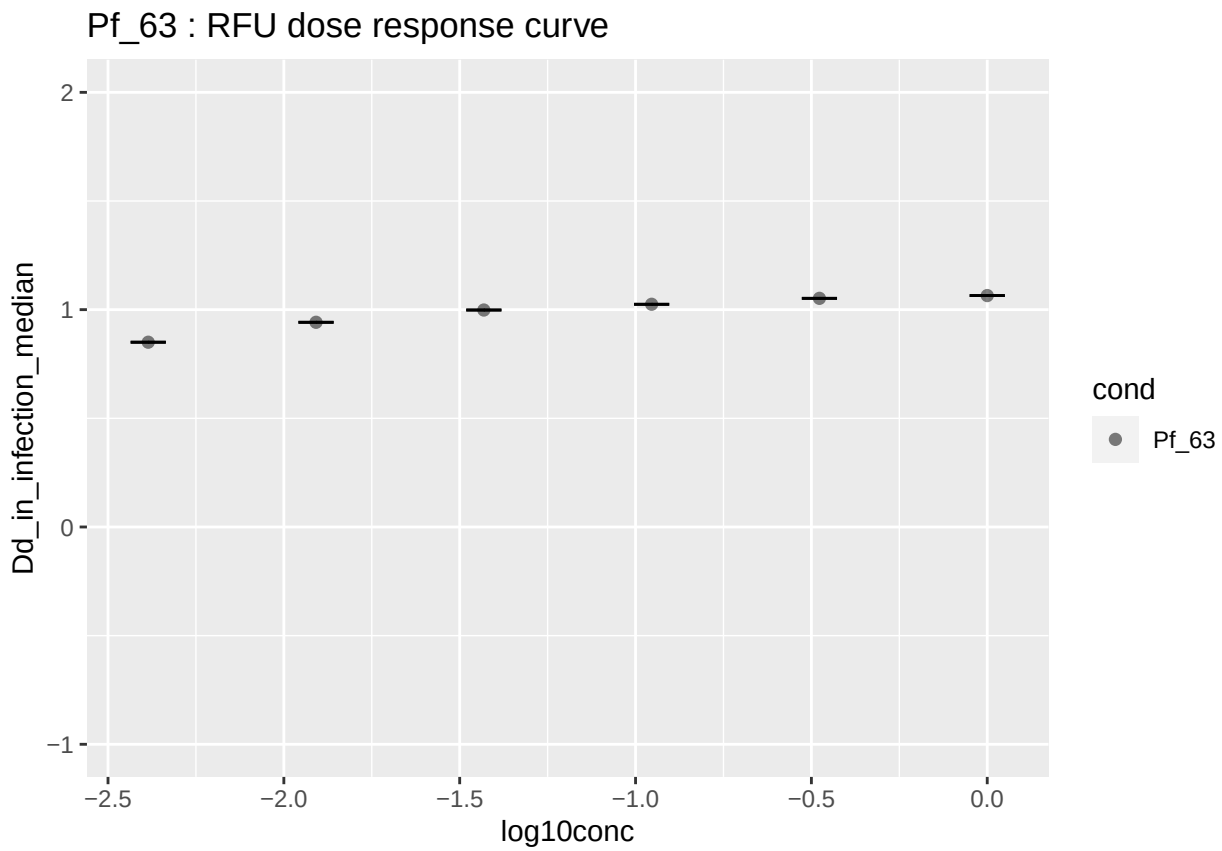

Mo_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

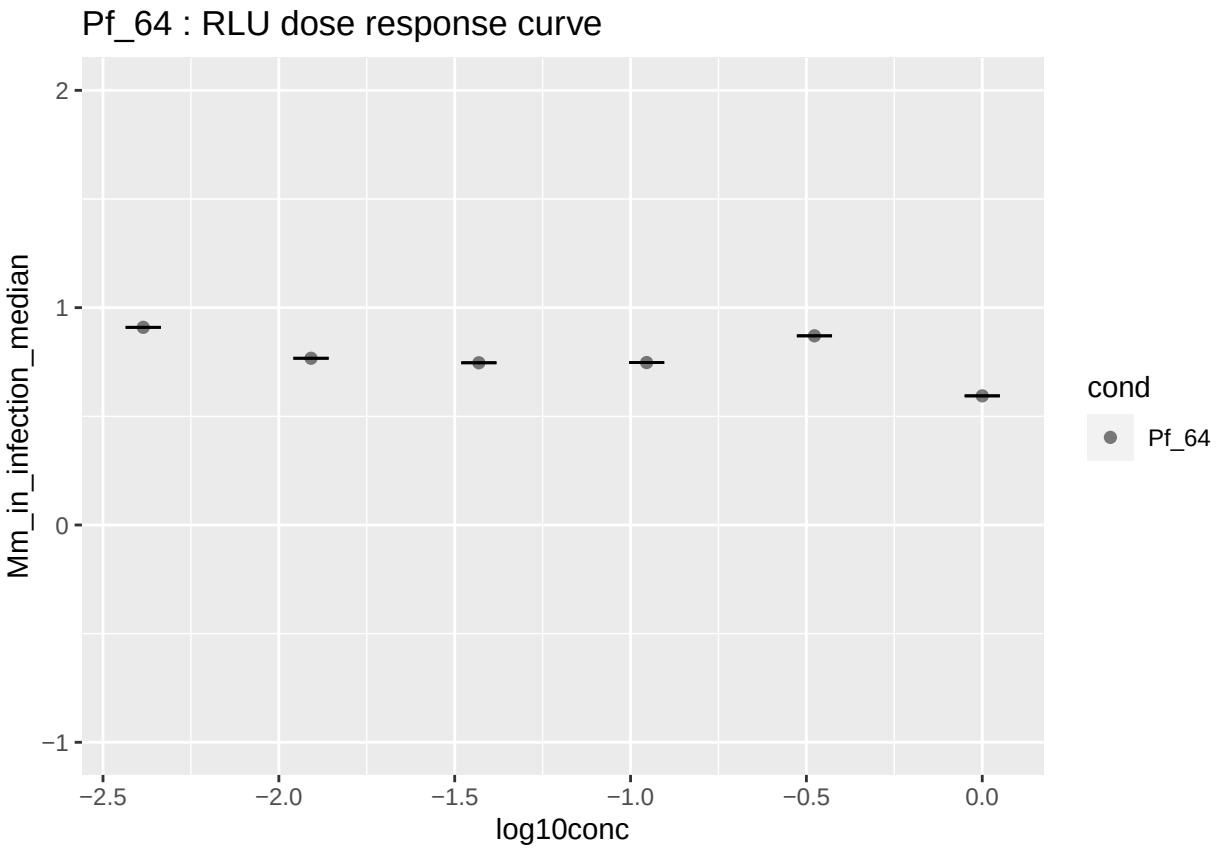

Mo_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Mo_72

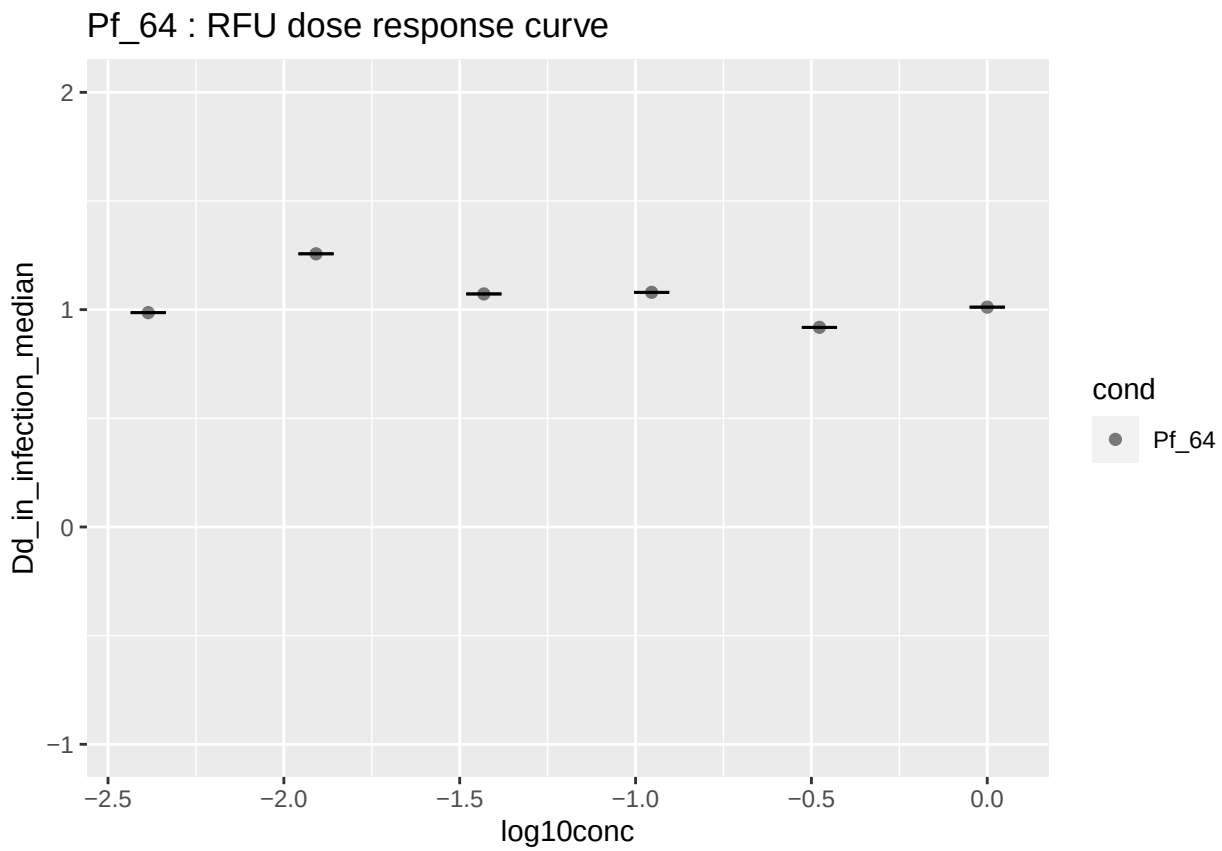

Pf_62 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

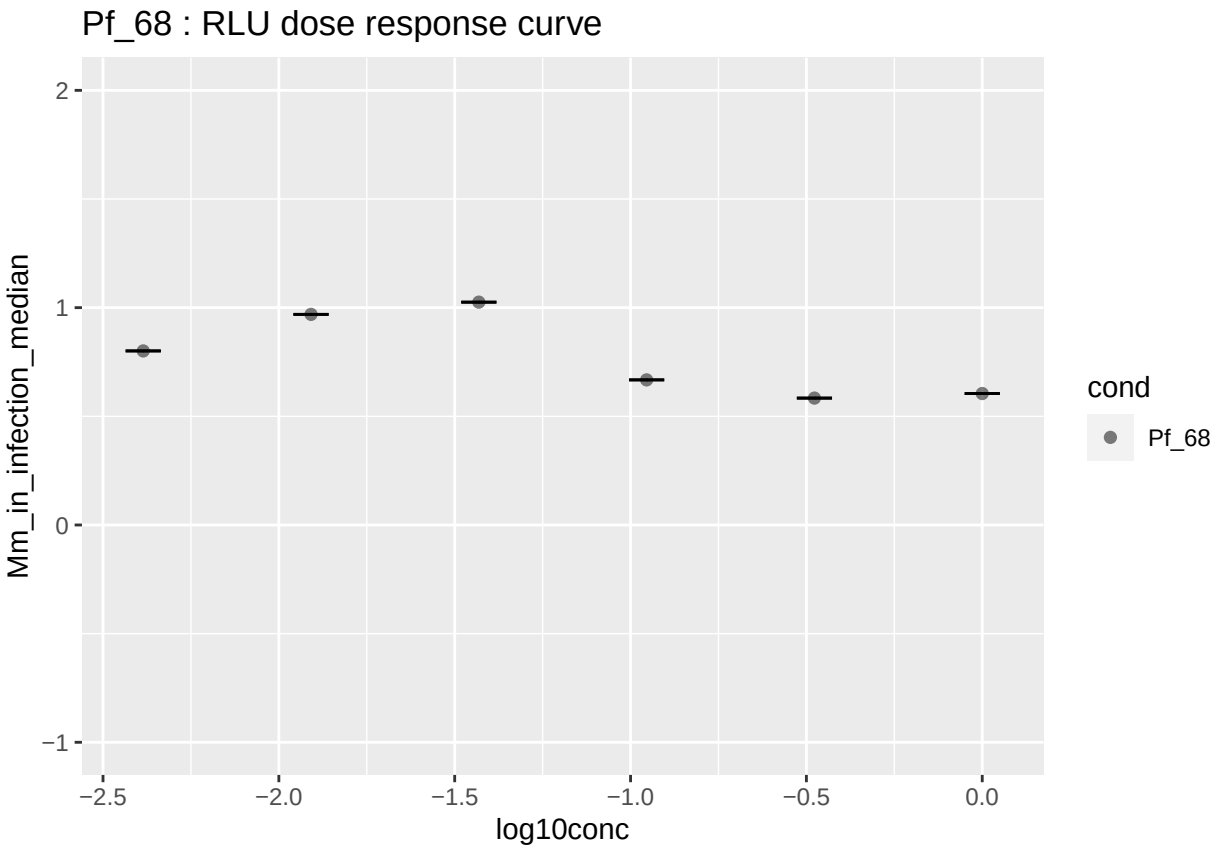

Pf_62 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_62

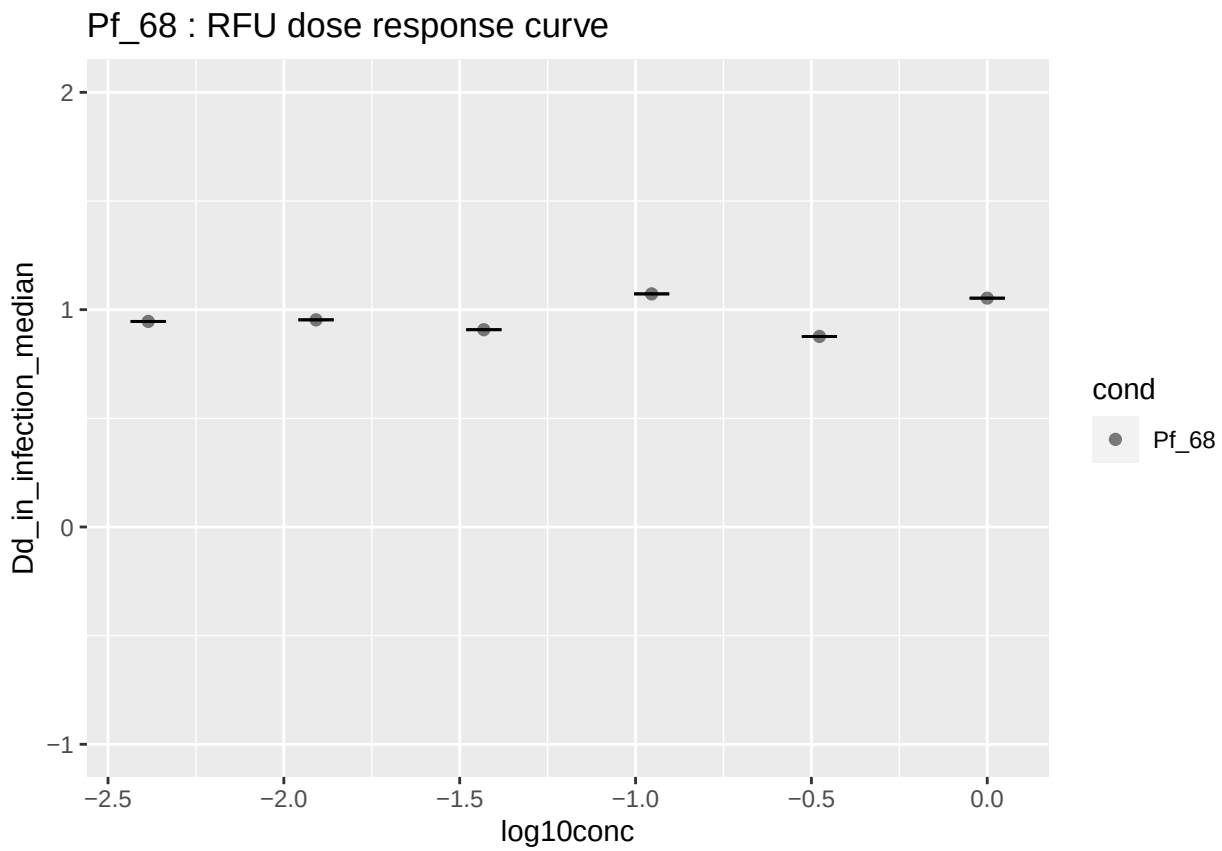

Pf_63 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

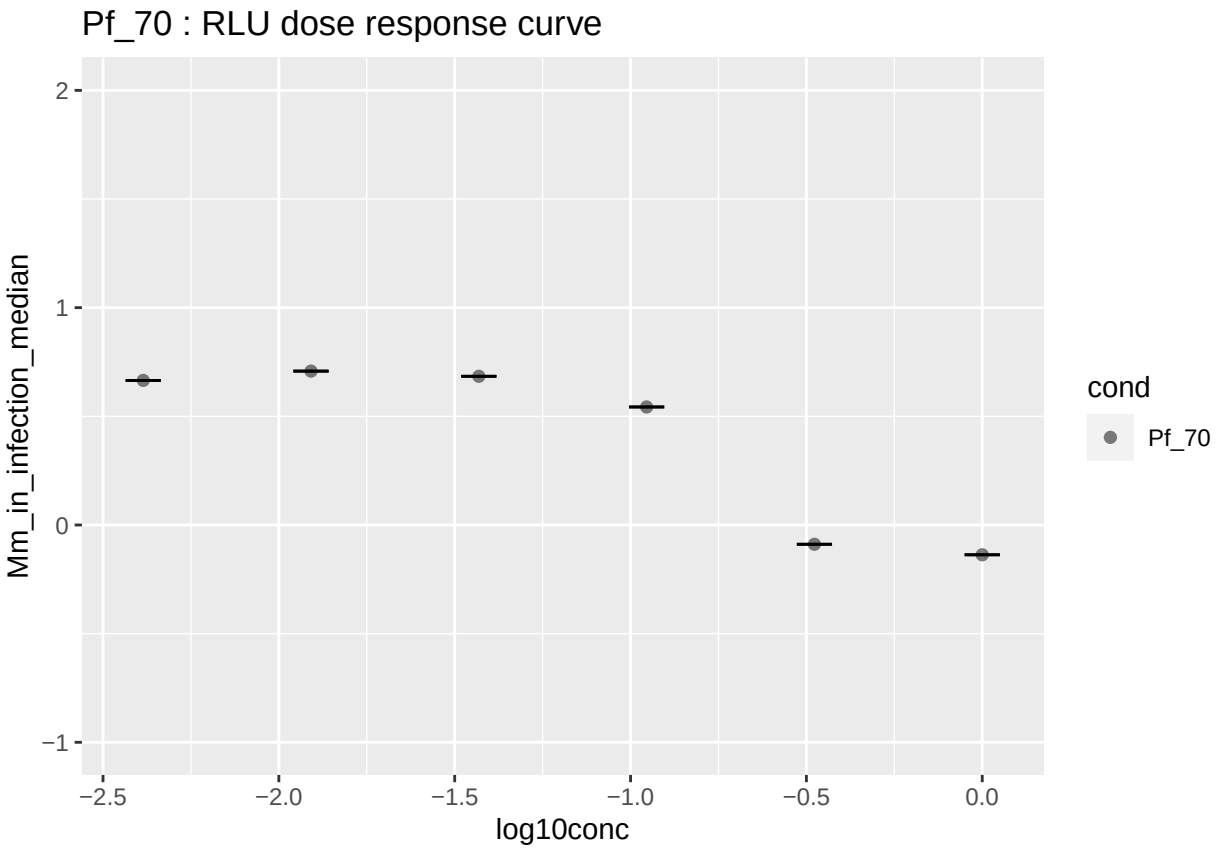

Pf_63 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_63

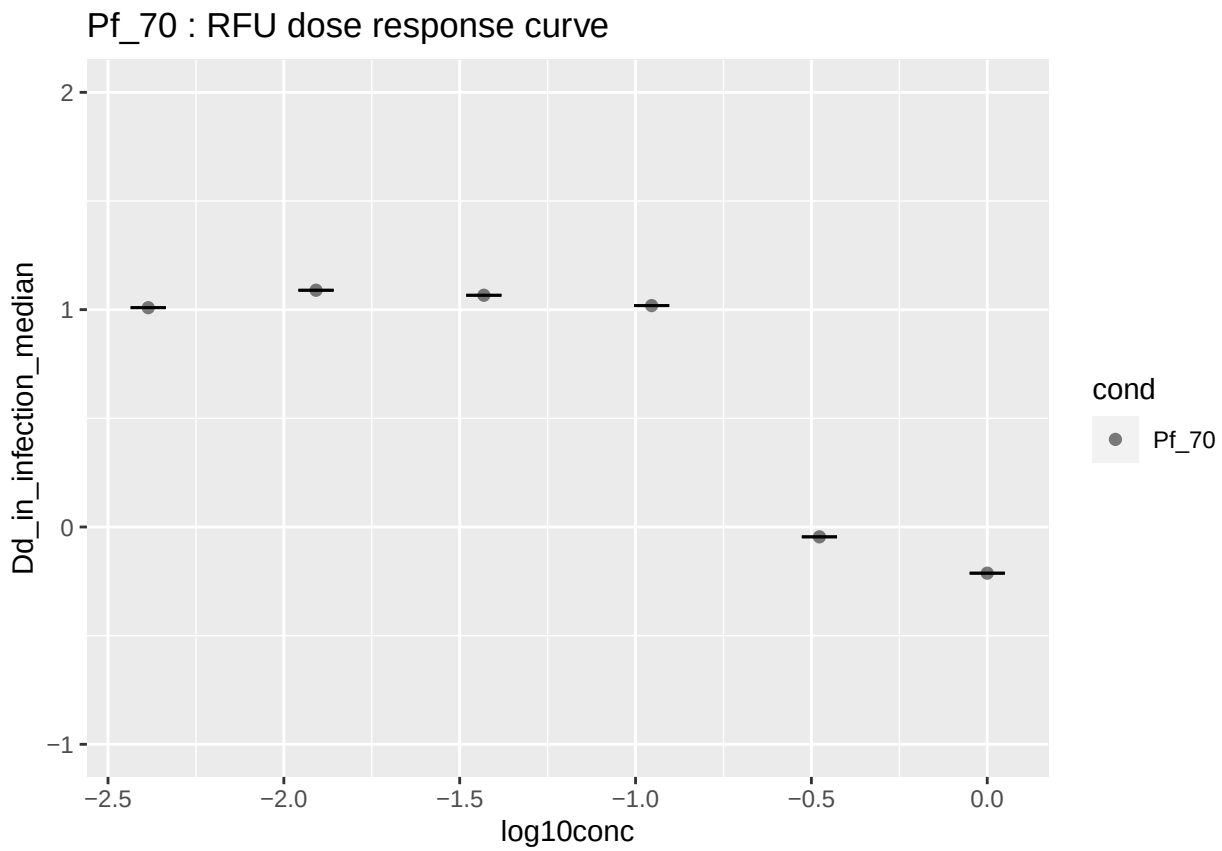

Pf_64 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

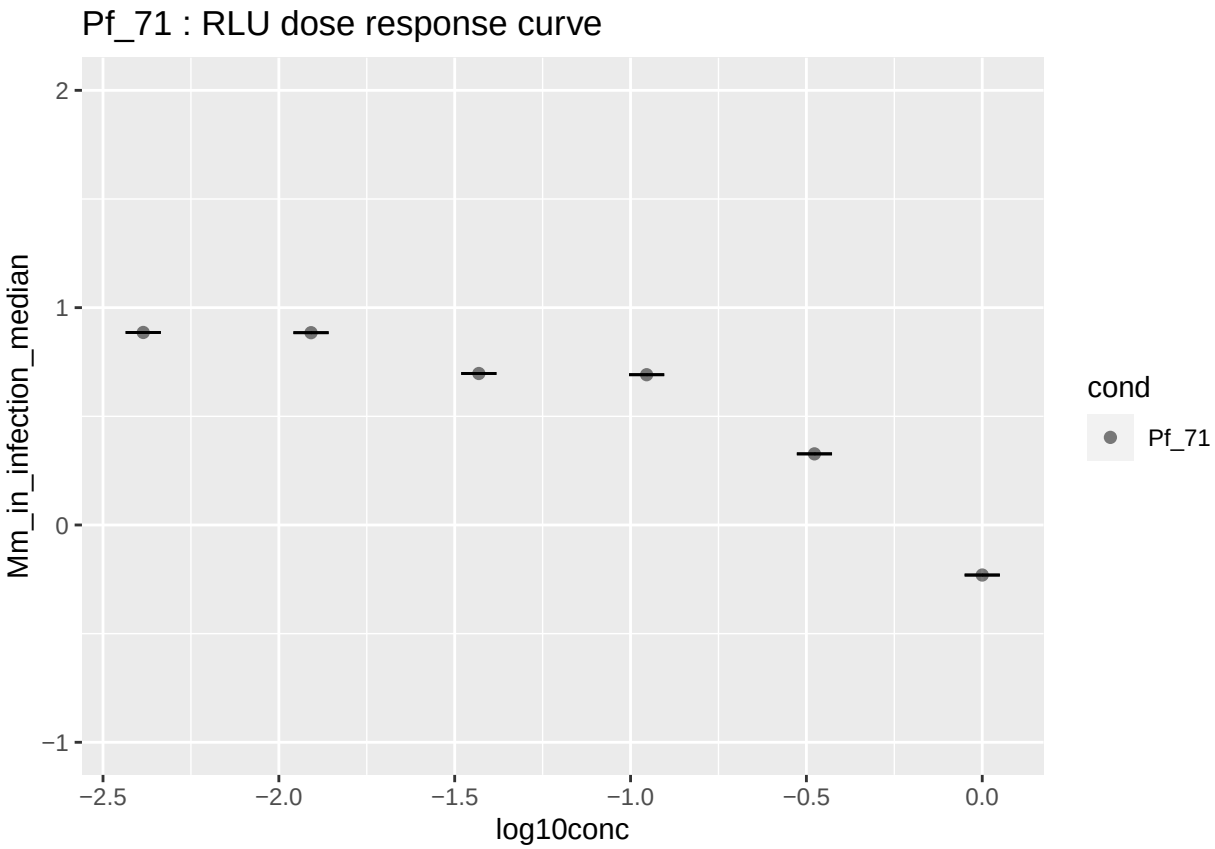

Pf_64 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_64

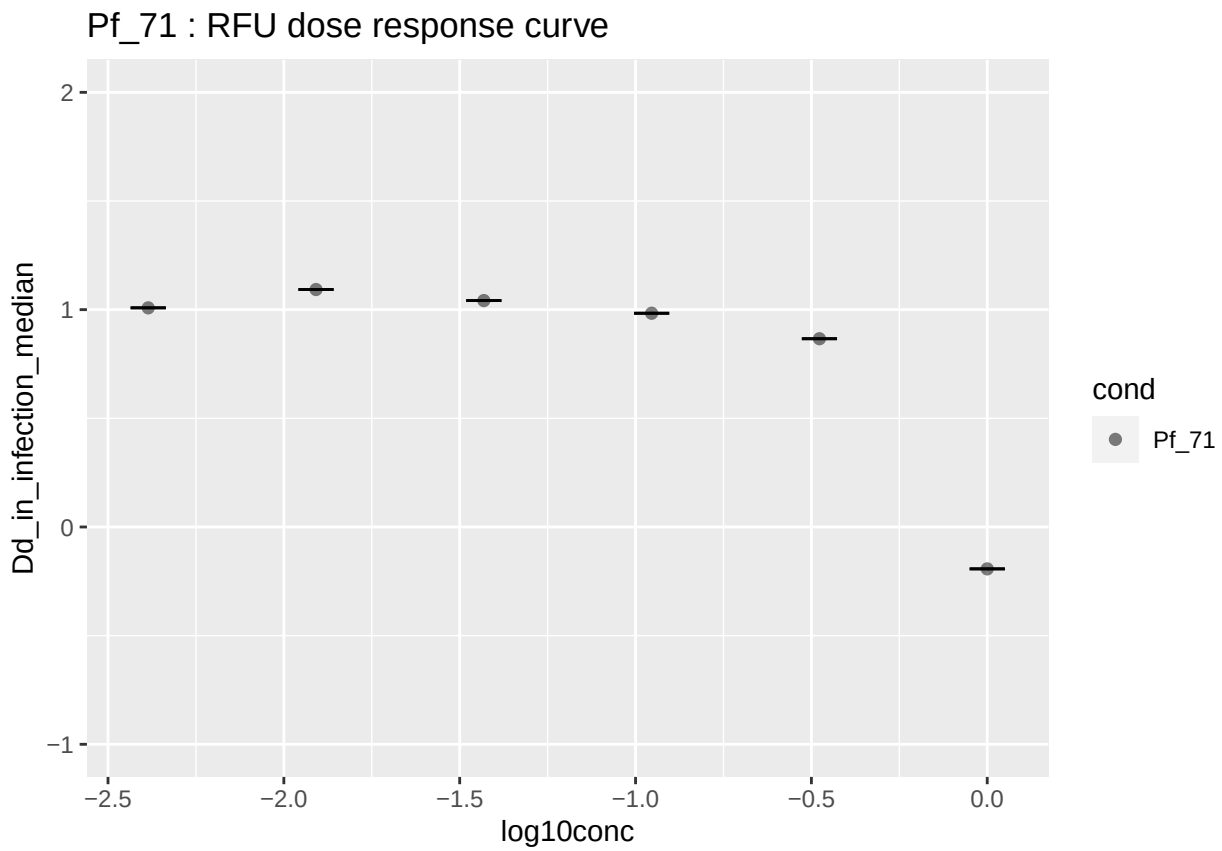

Pf_68 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

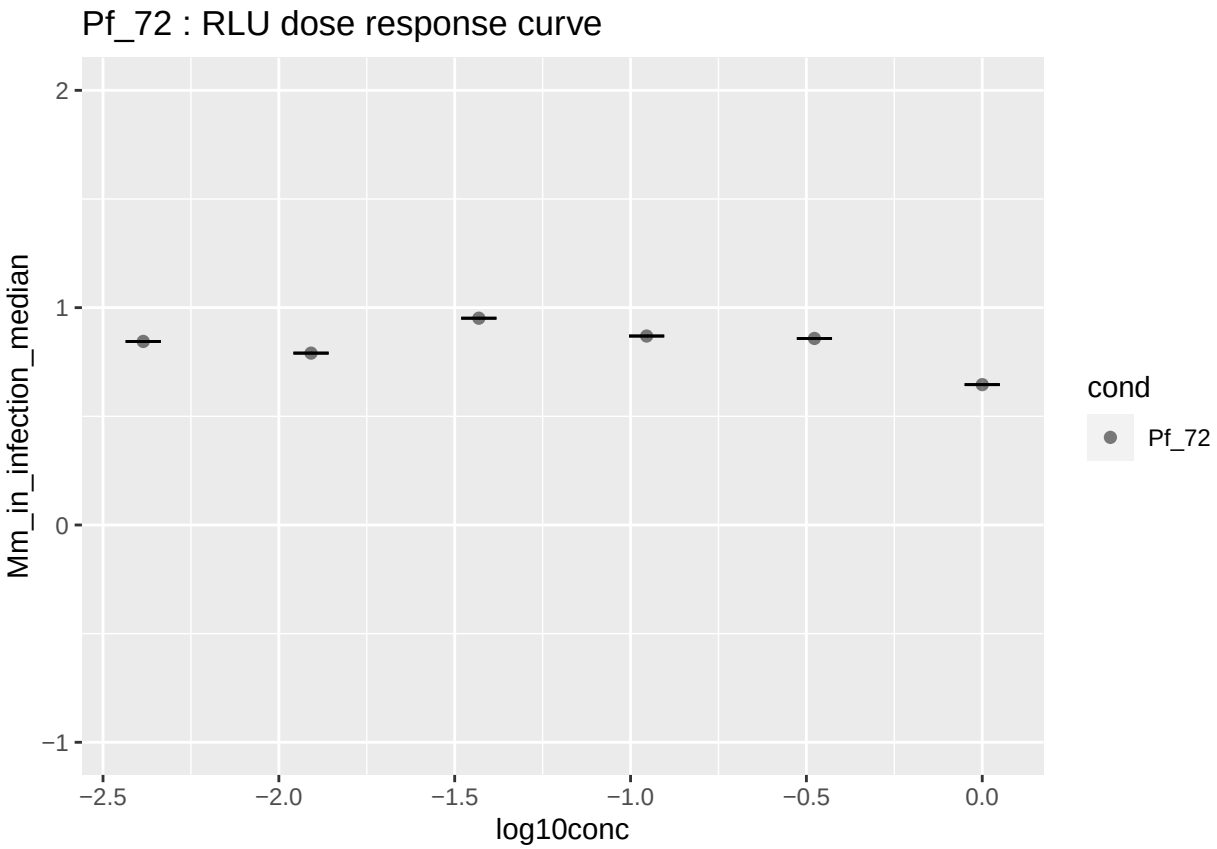

Pf_68 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_68

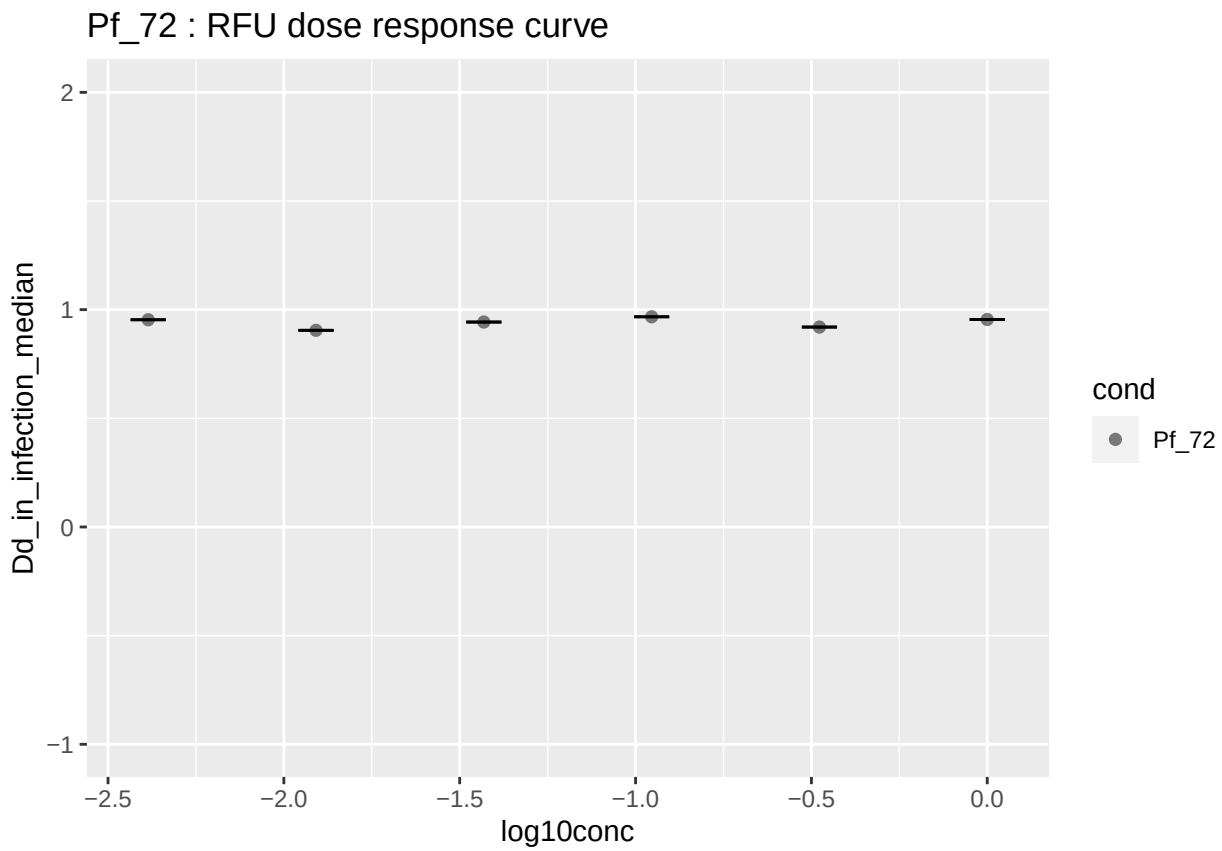

Pf_70 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

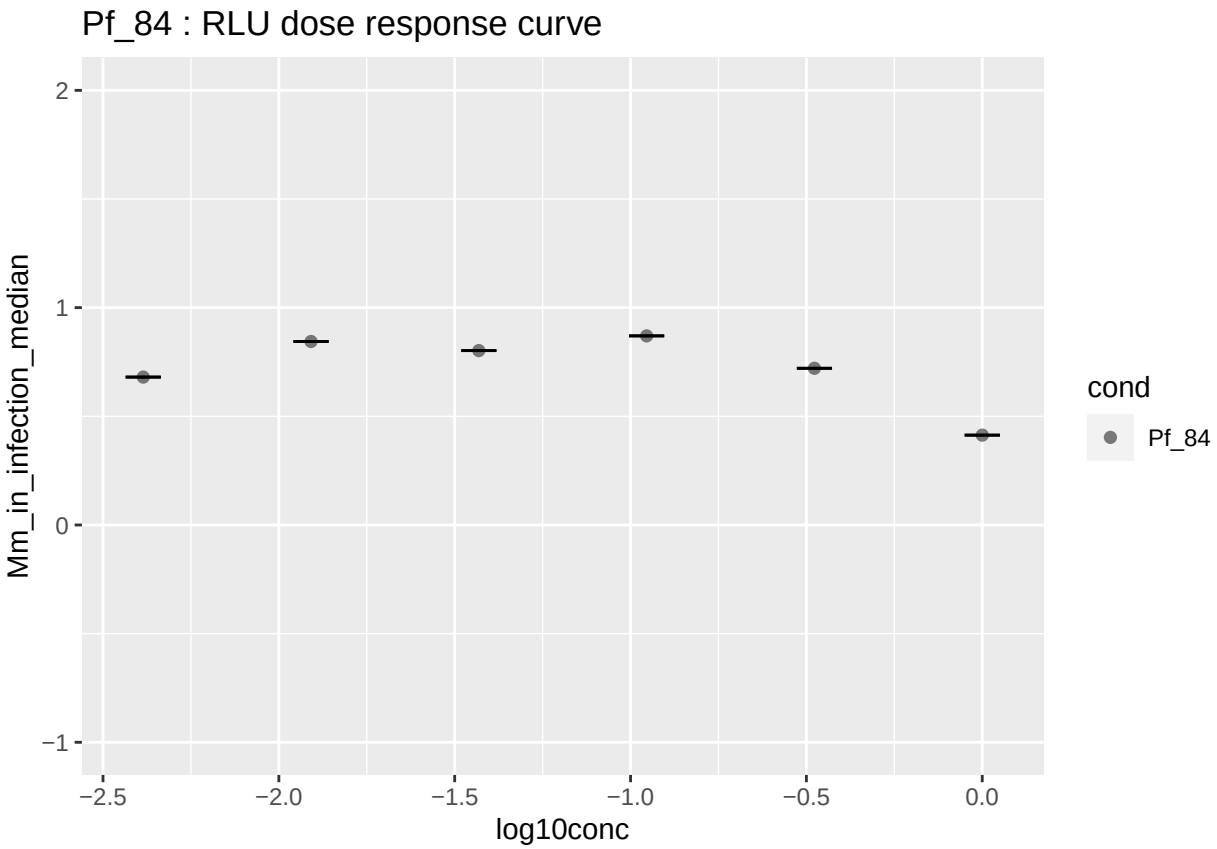

Pf_70 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_70

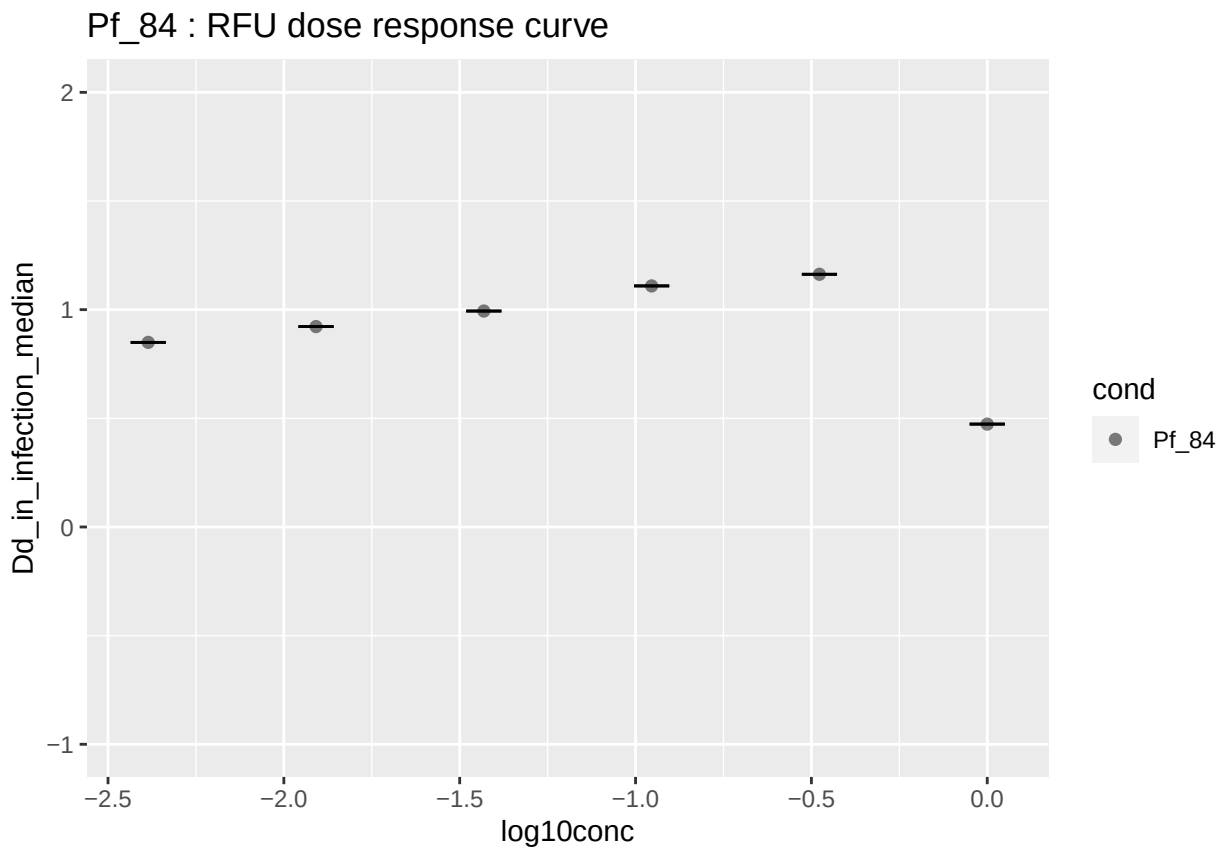

Pf_71 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

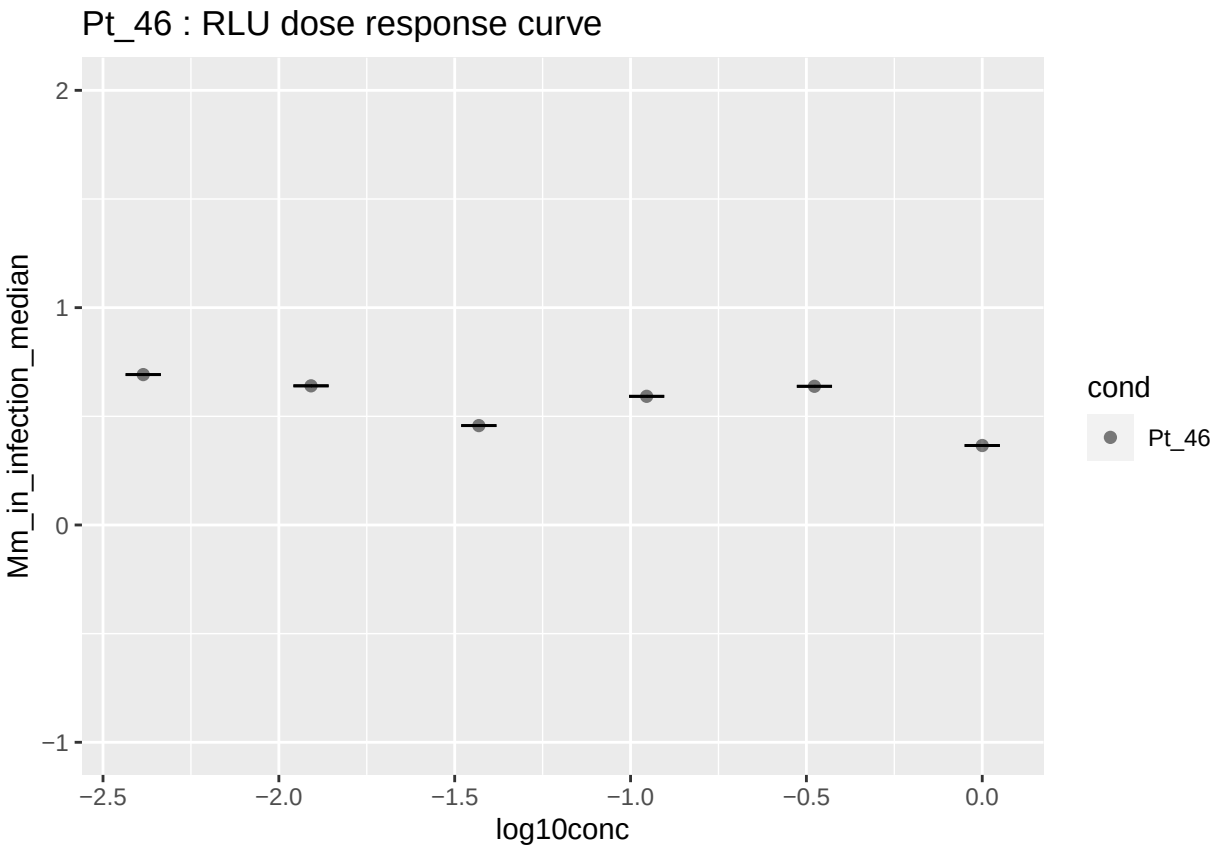

Pf_71 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_71

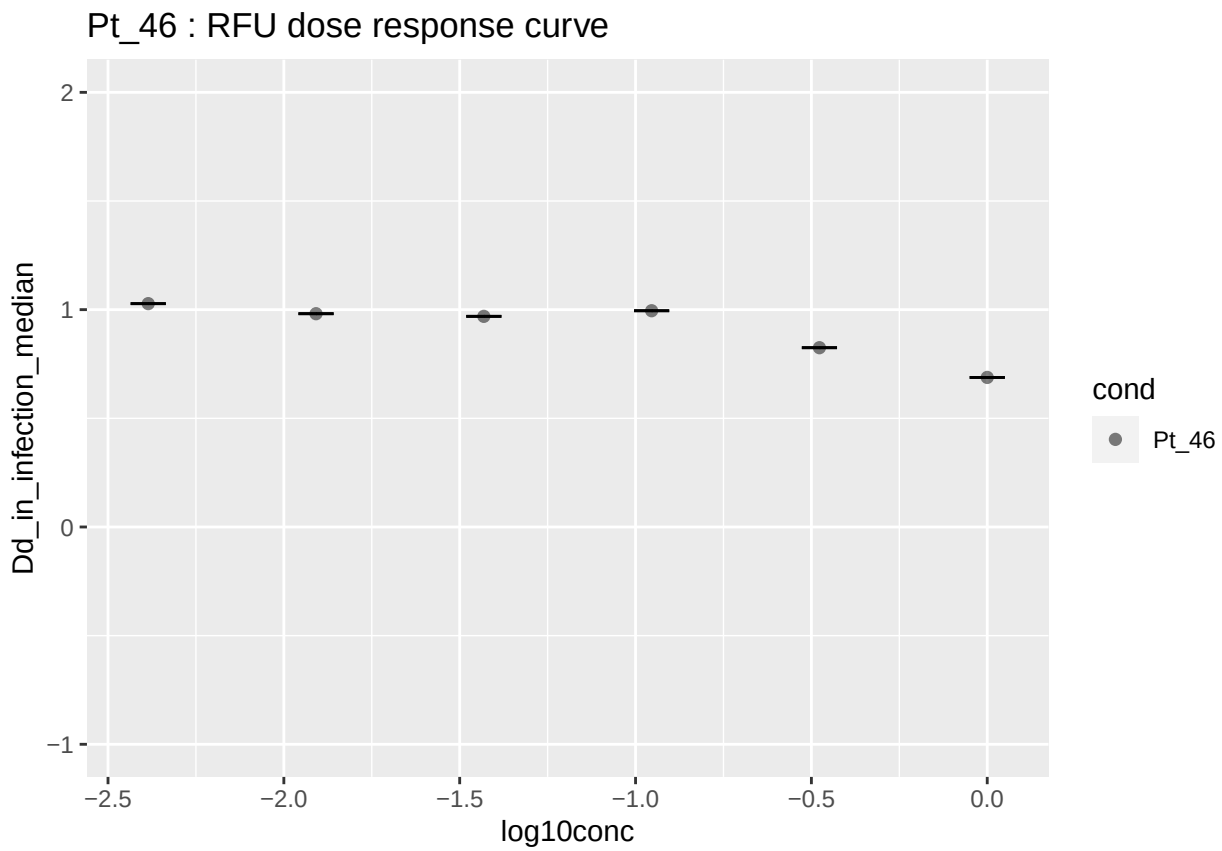

Pf_72 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

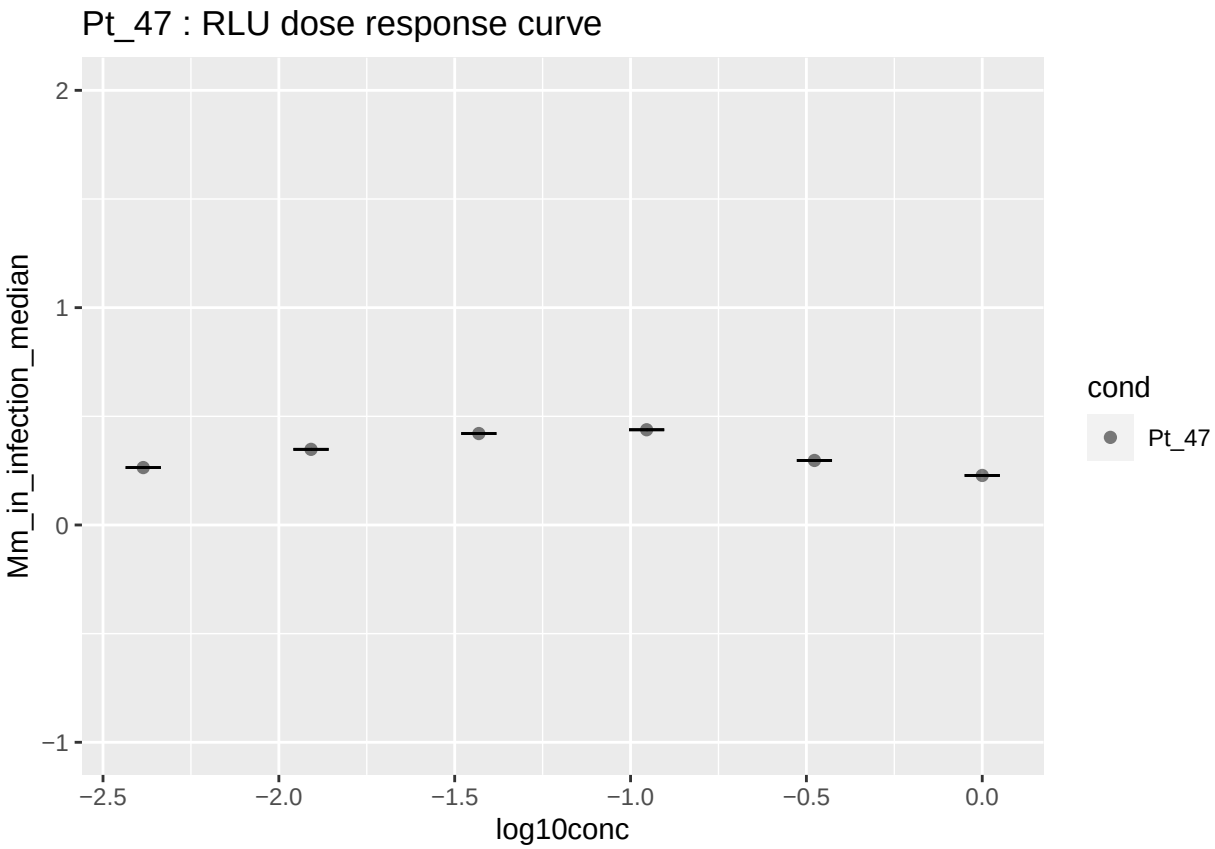

Pf_72 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_72

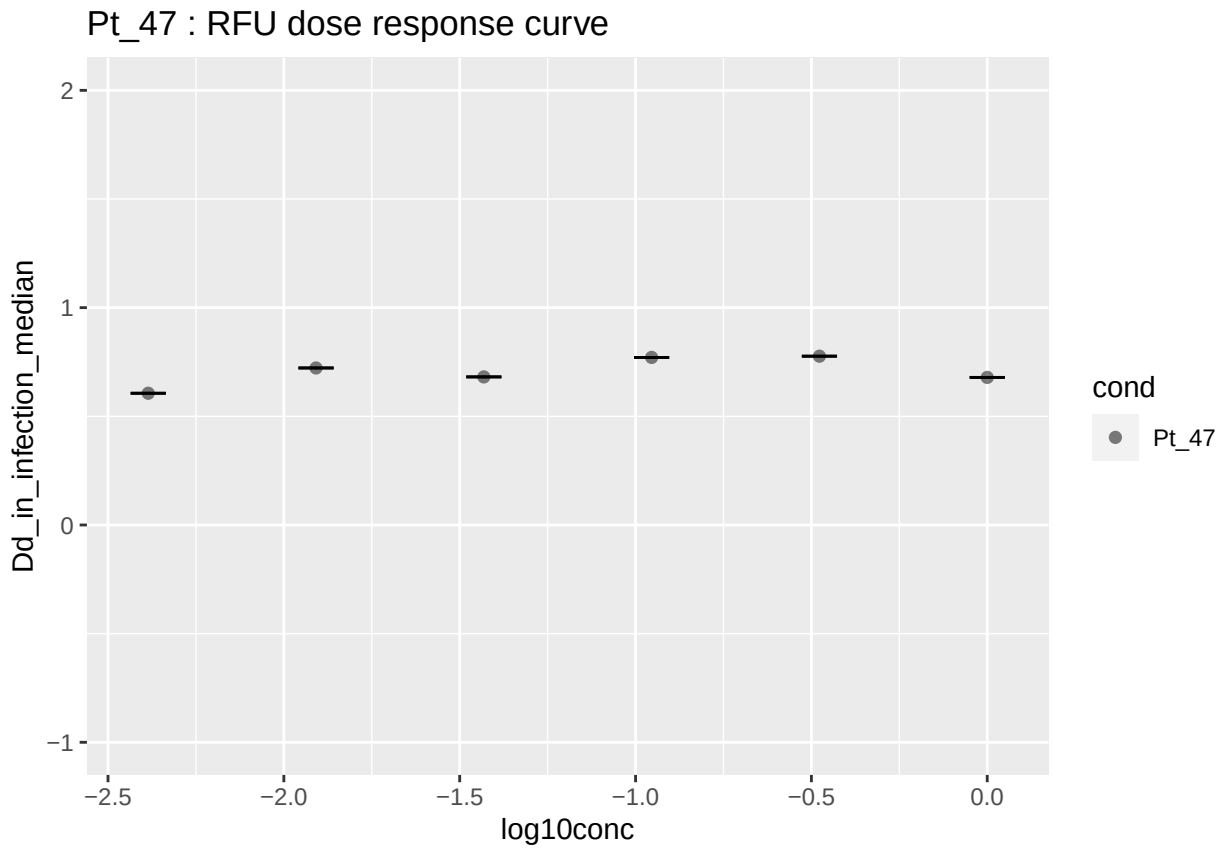

Pf_84 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84


Pf_84 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pf_84

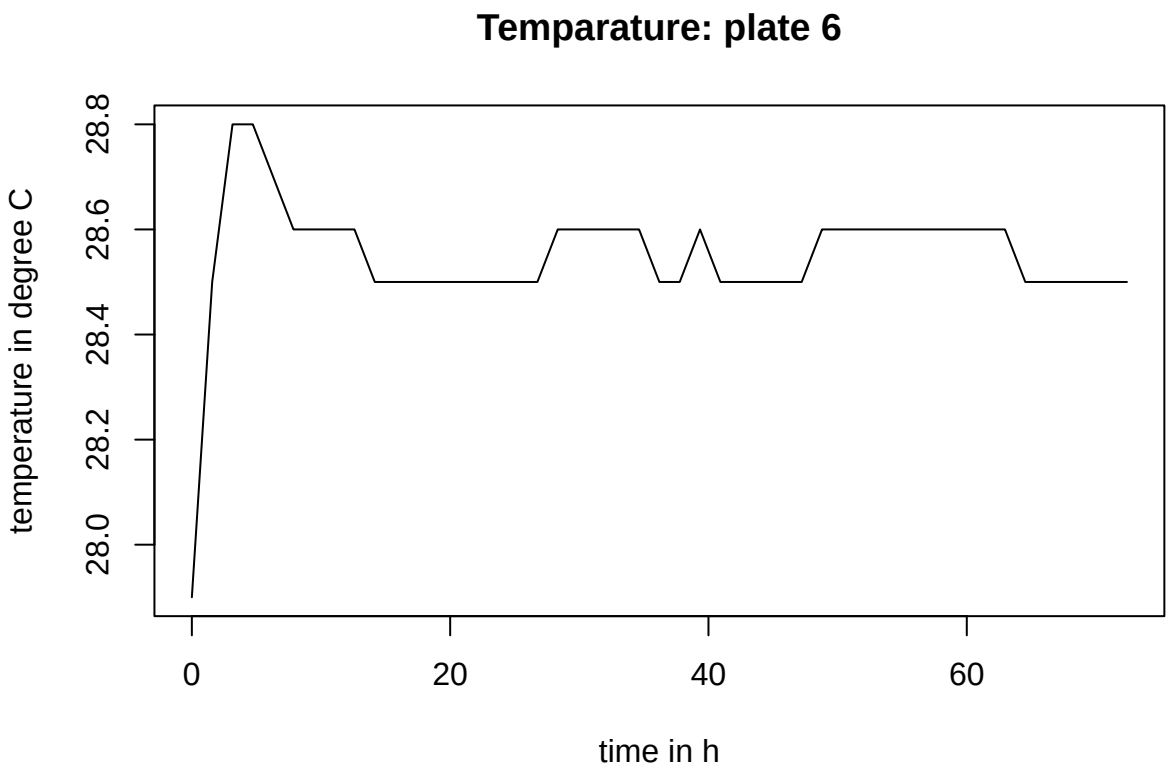

Pt_46 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46


Pt_46 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_46

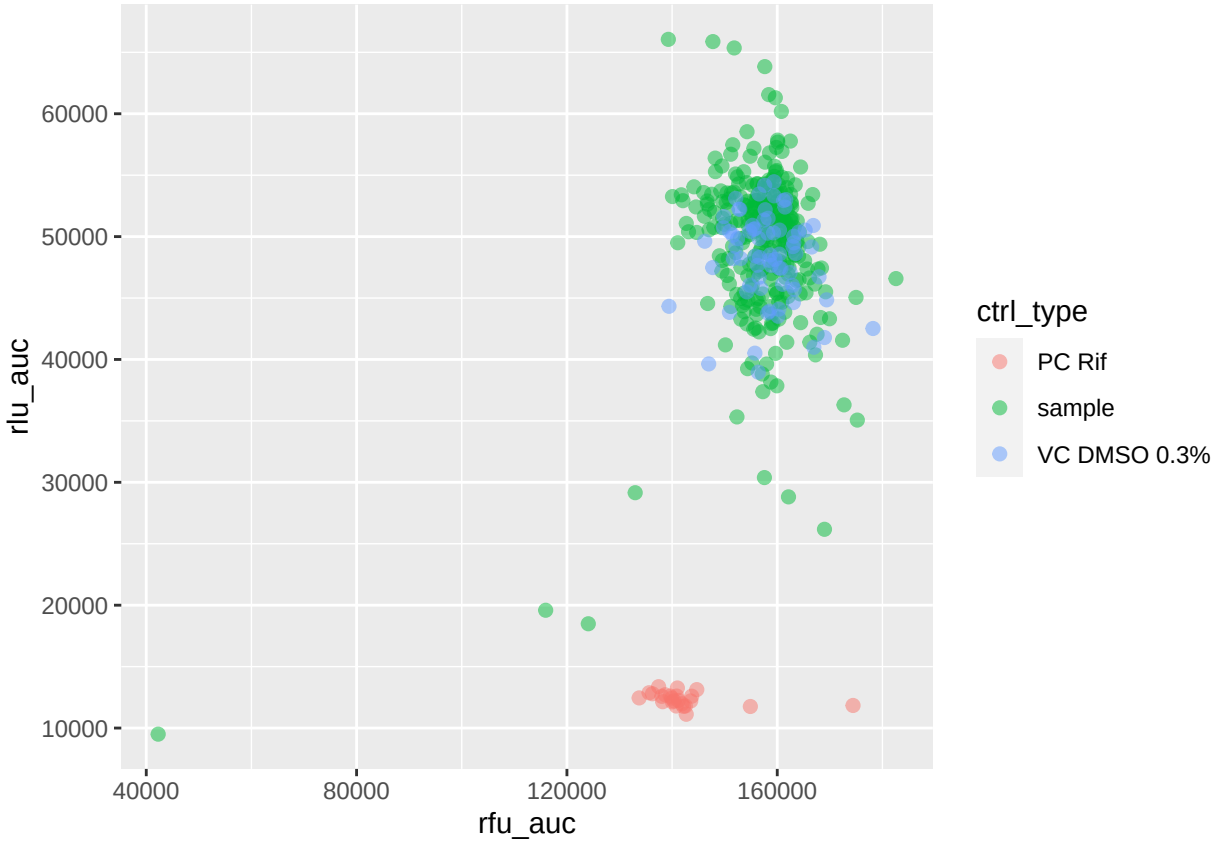

Pt_47 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_47

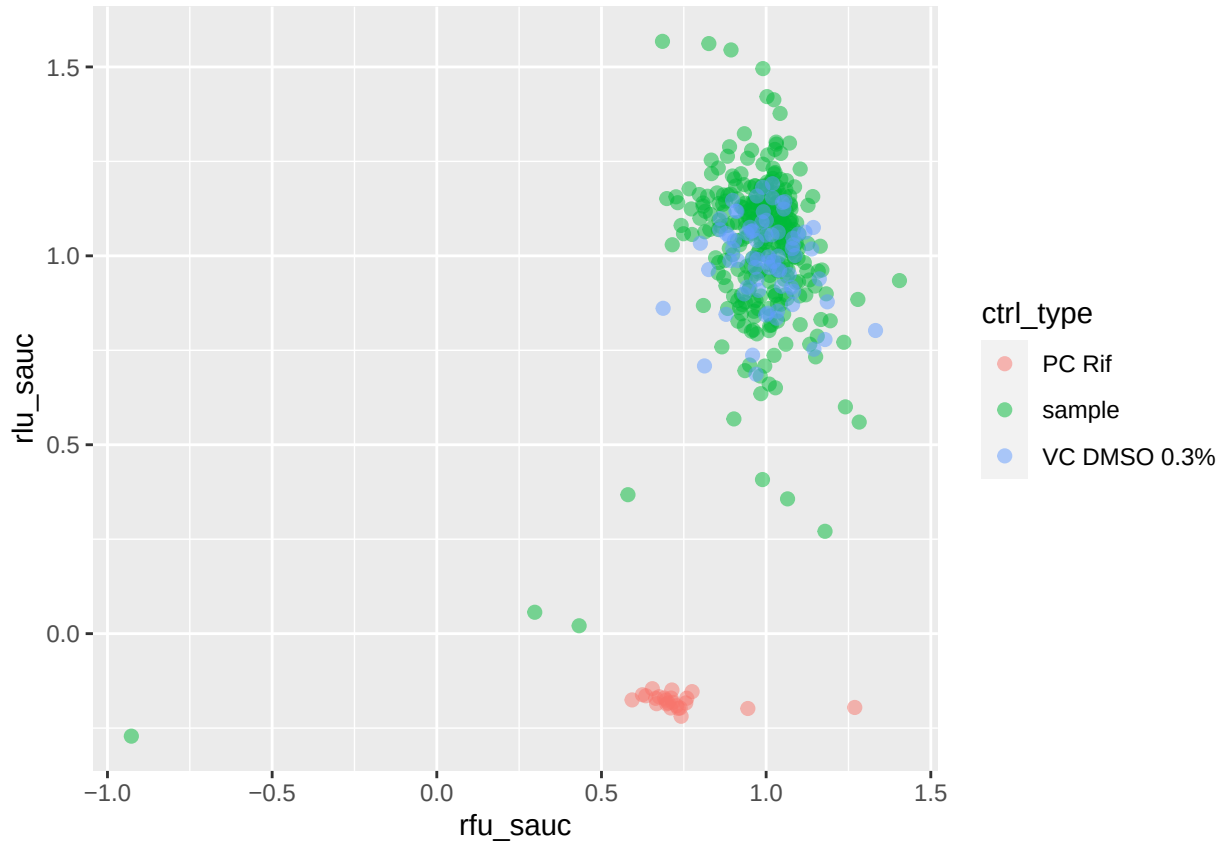


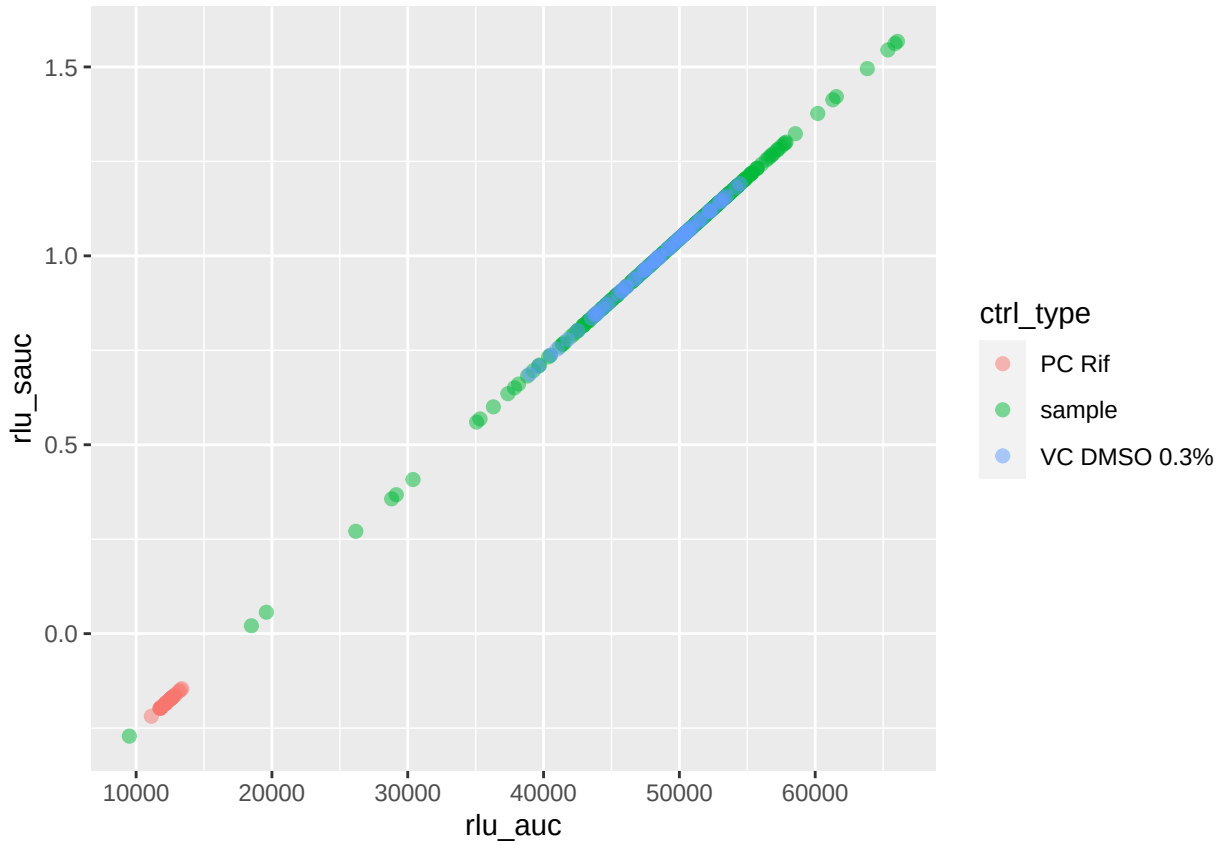

```
## [1] "analysis for plate07.xlsx"
```

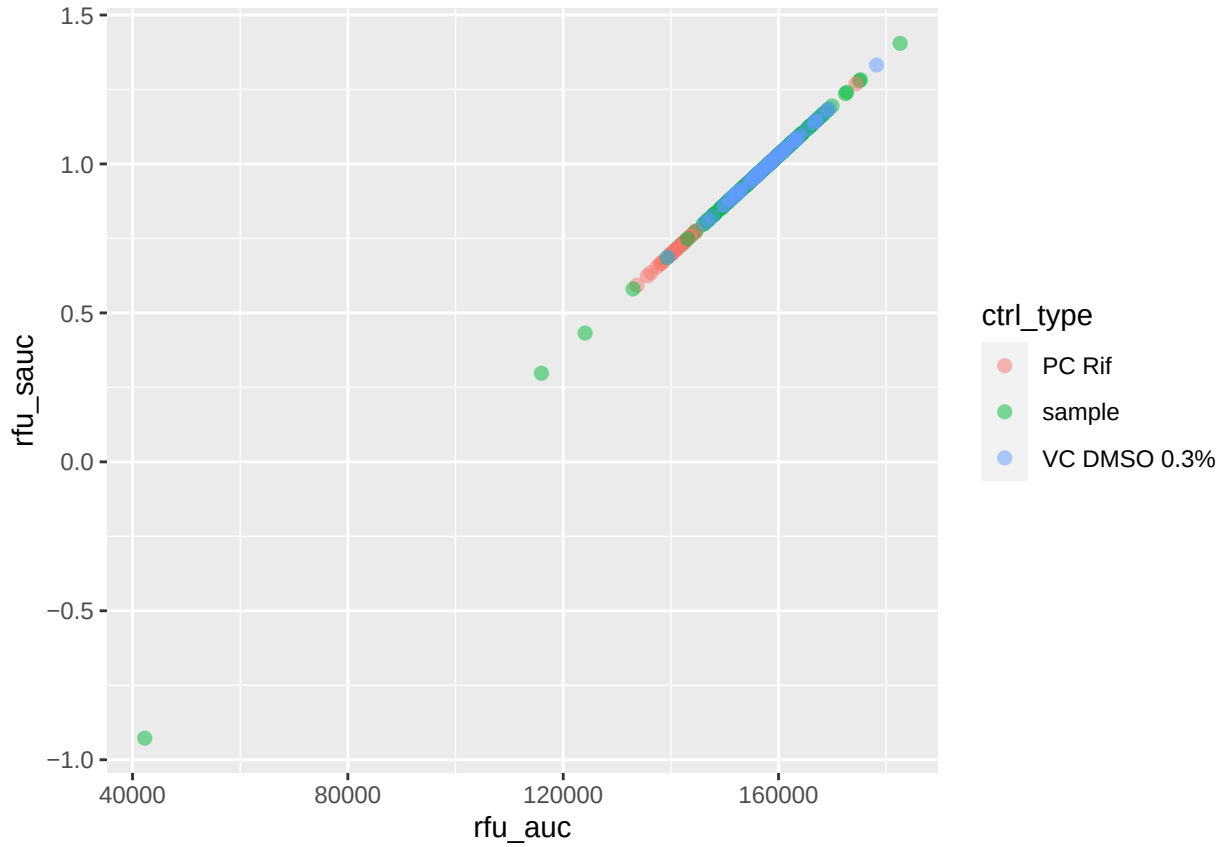


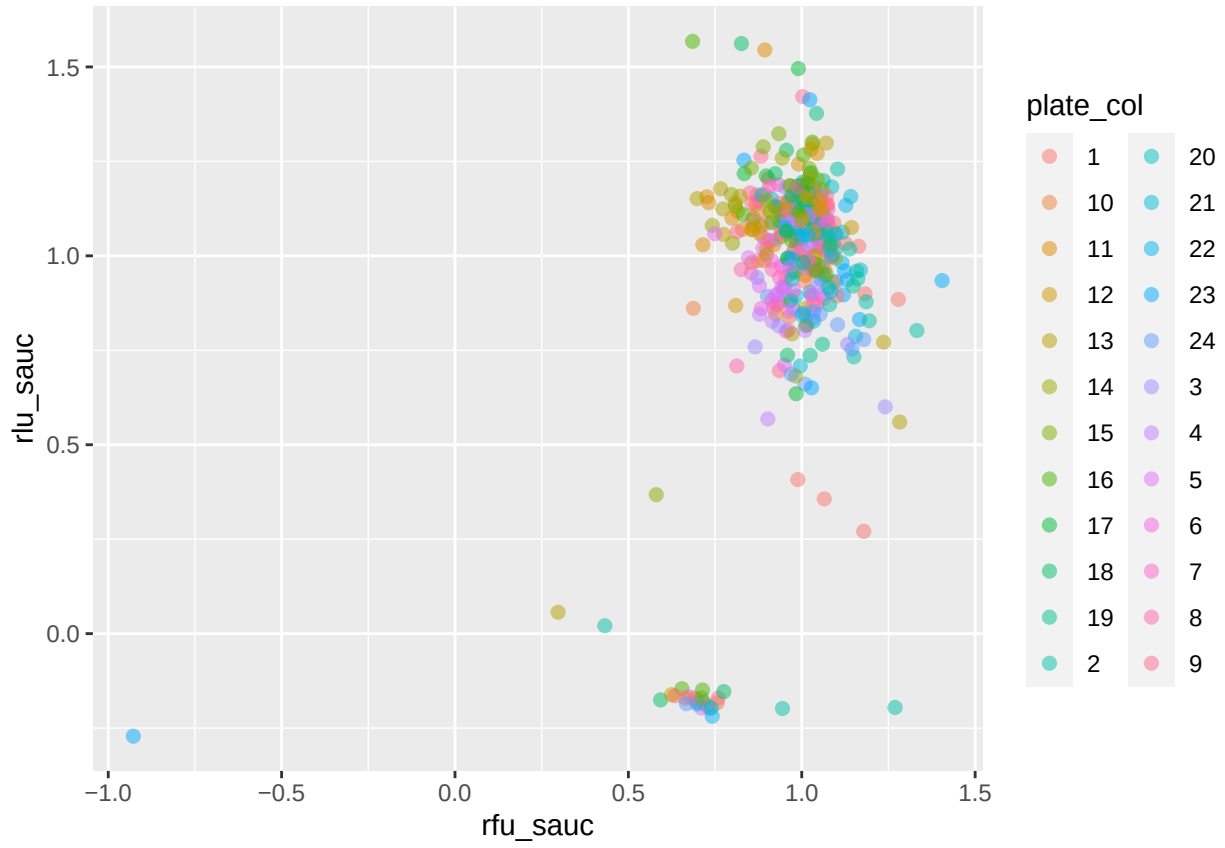

```
## [1] "VC DMSO 0.3% Robust z'-factor of rlu for plate plate07.xlsx, biorep 3 : "
## [1] 0.68
```

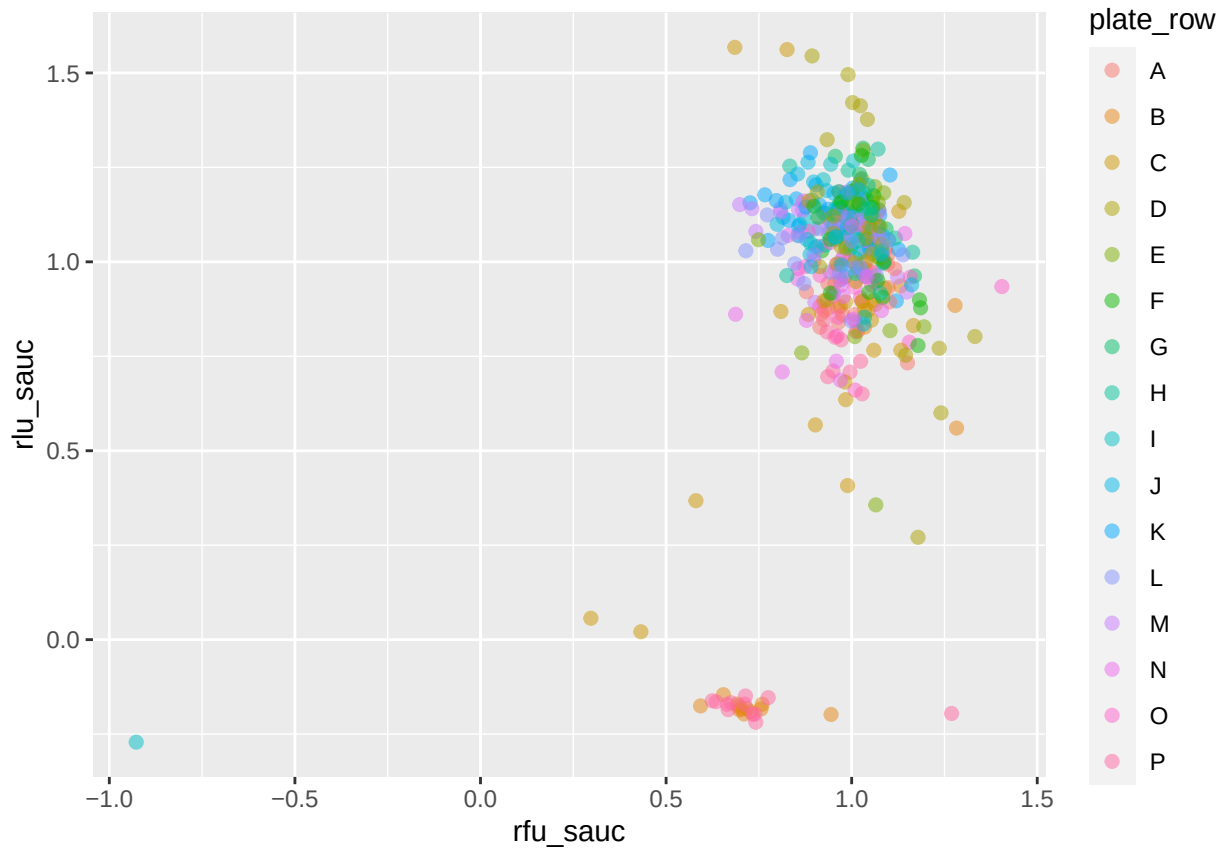

60000
50000
40000
30000
20000
10000
rlu_auc
40000
80000
120000
160000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
−1.0
−0.5
0.0
0.5
1.0
1.5
rfu_sauc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
10000
20000
30000
40000
50000
60000
rlu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
−0.5
−1.0
rfu_sauc
40000
80000
120000
160000
rfu_auc
ctrl_type
PC Rif
sample
VC DMSO 0.3%

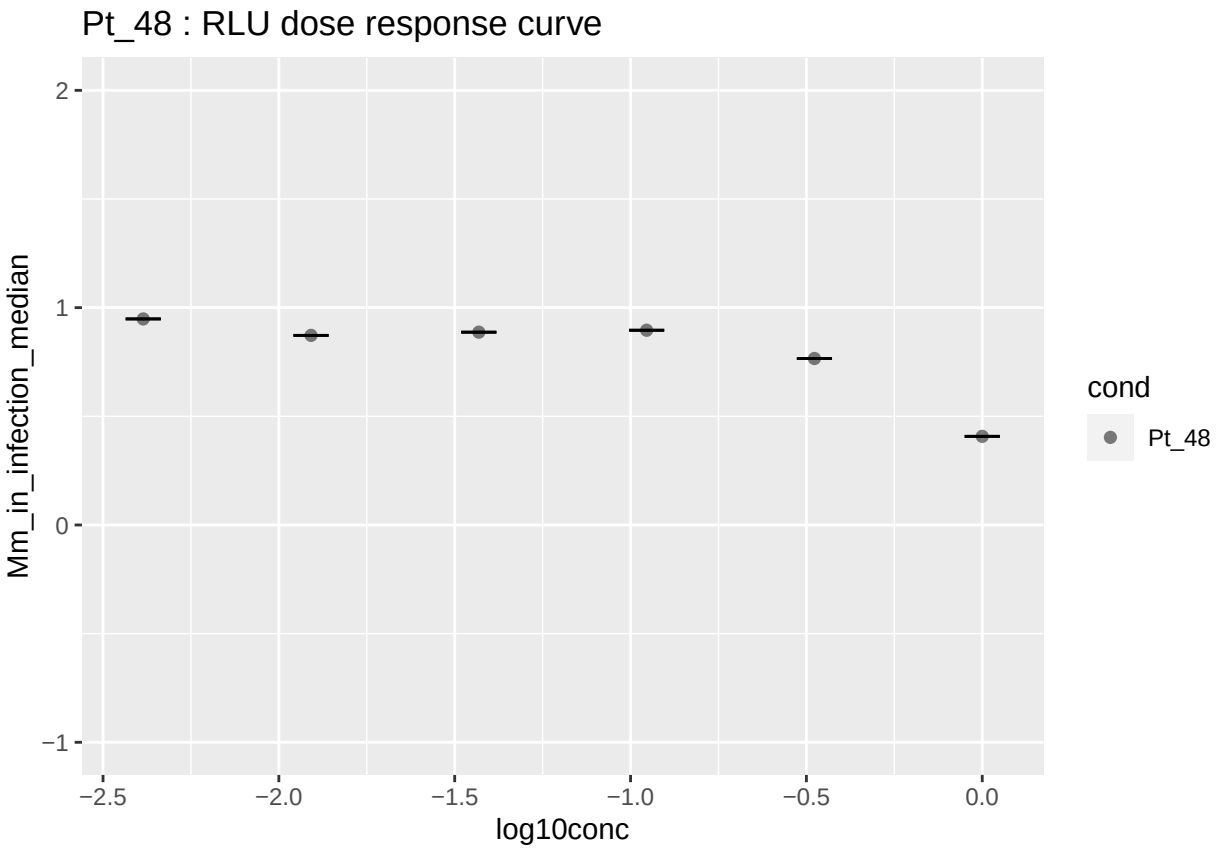

1.5
1.0
0.5
0.0
rlu_sauc
−1.0
−0.5
0.0
0.5
1.0
1.5
rfu_sauc
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9

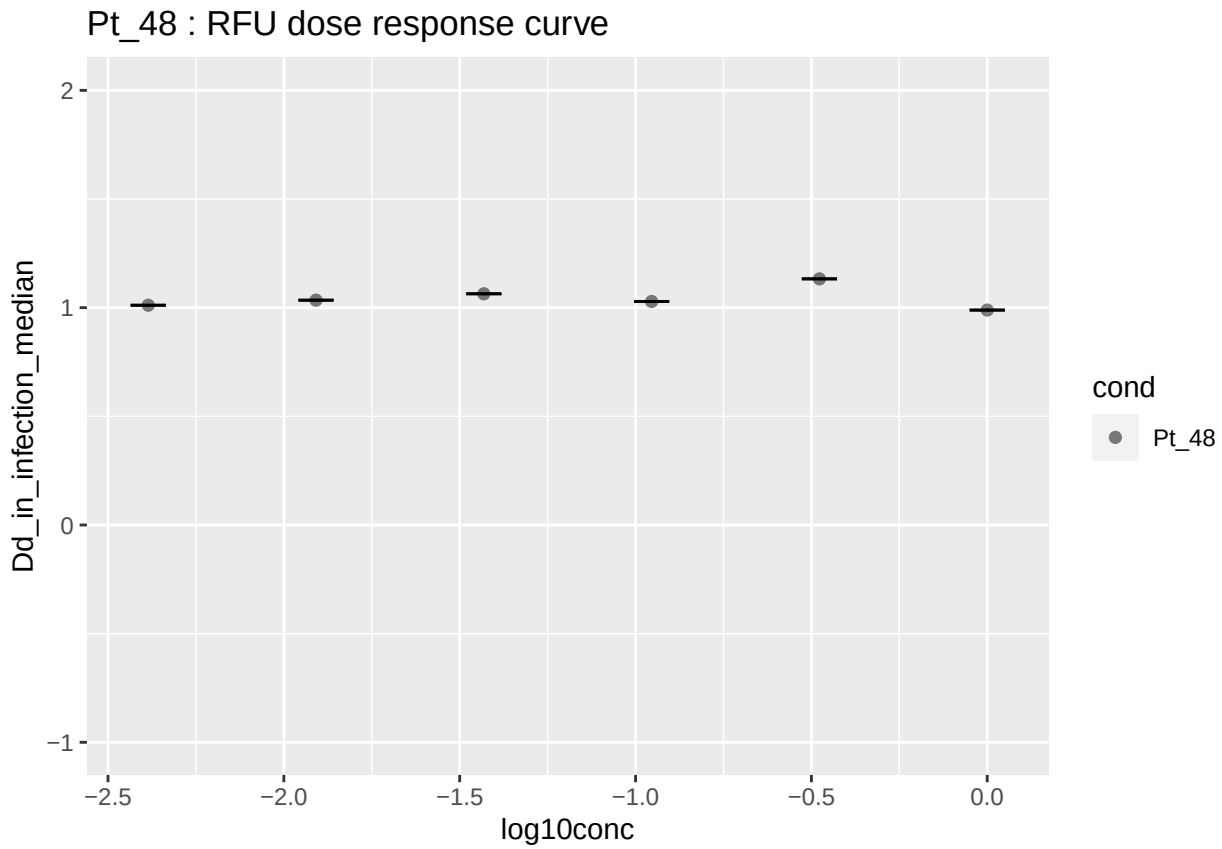


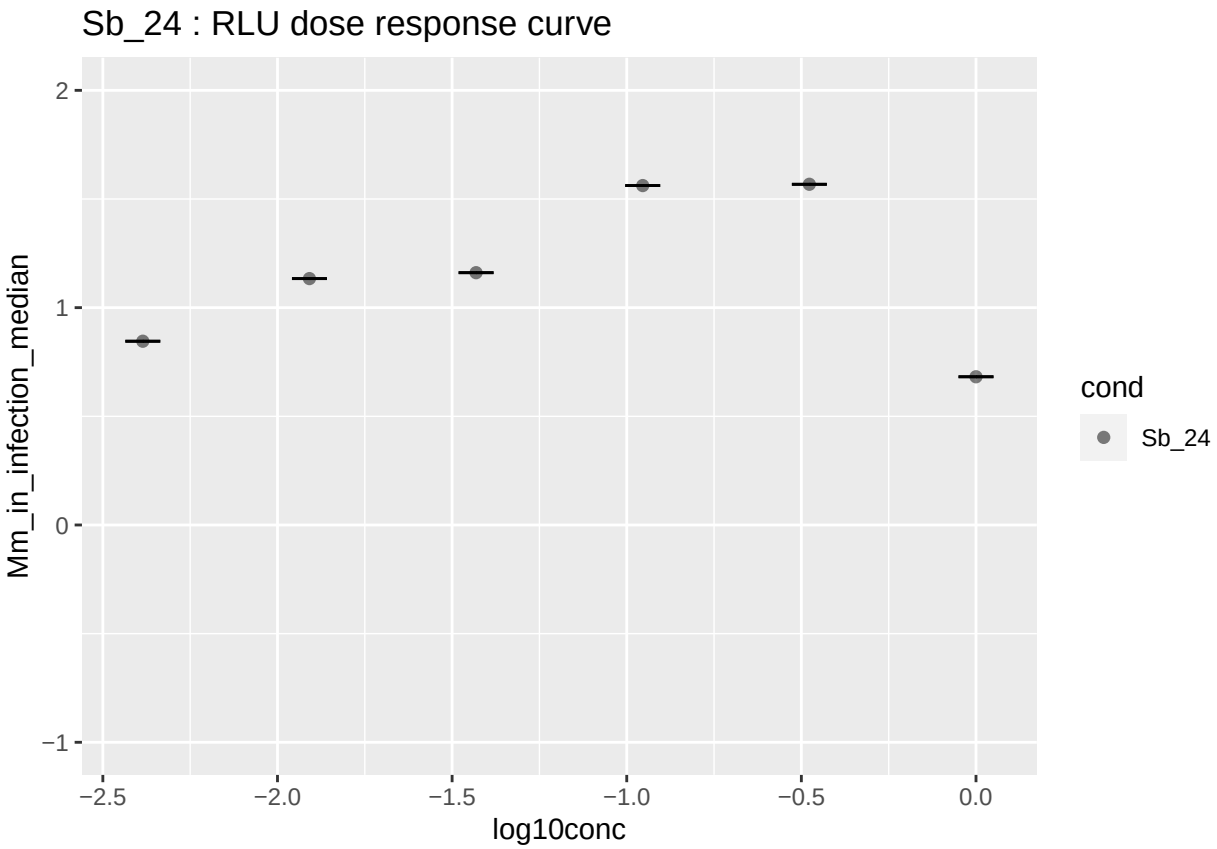

```
## [1] "Dose response curves over all bioreps within this plate"
```

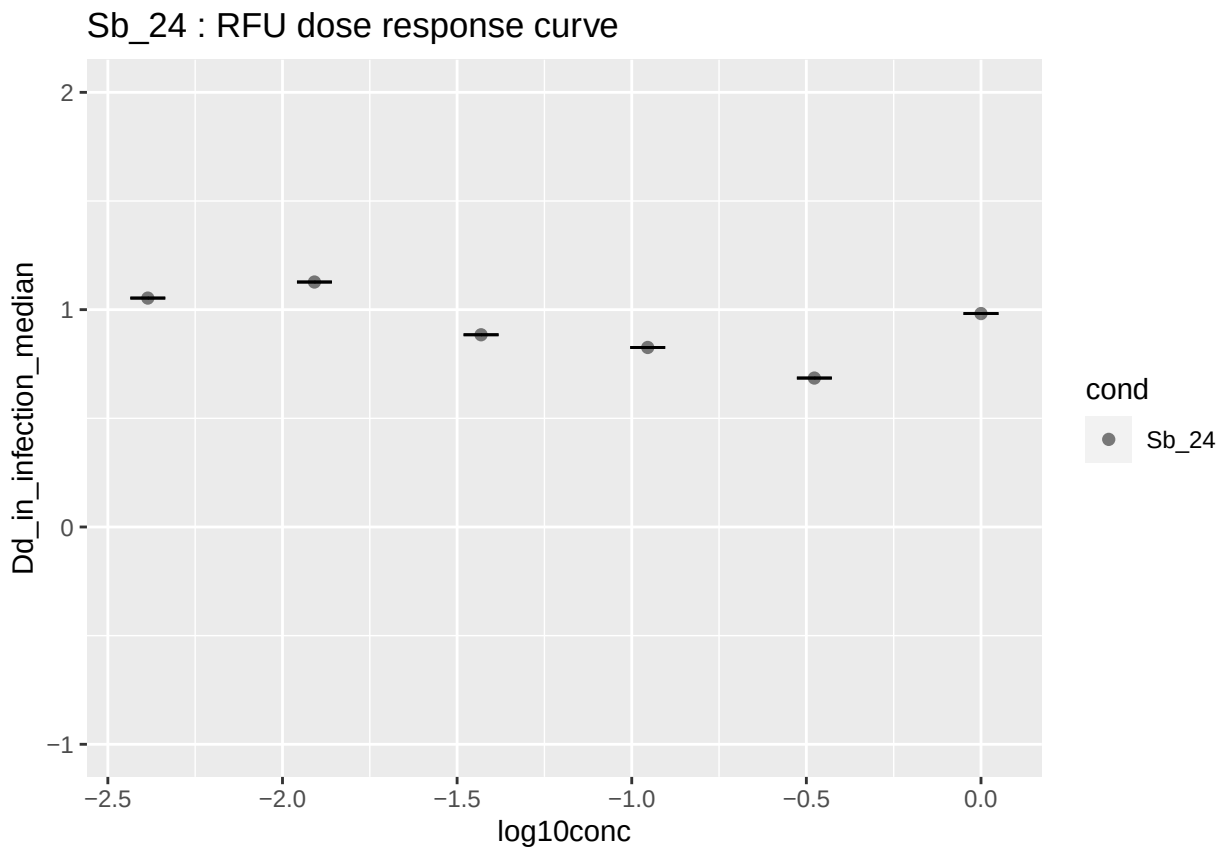
− : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

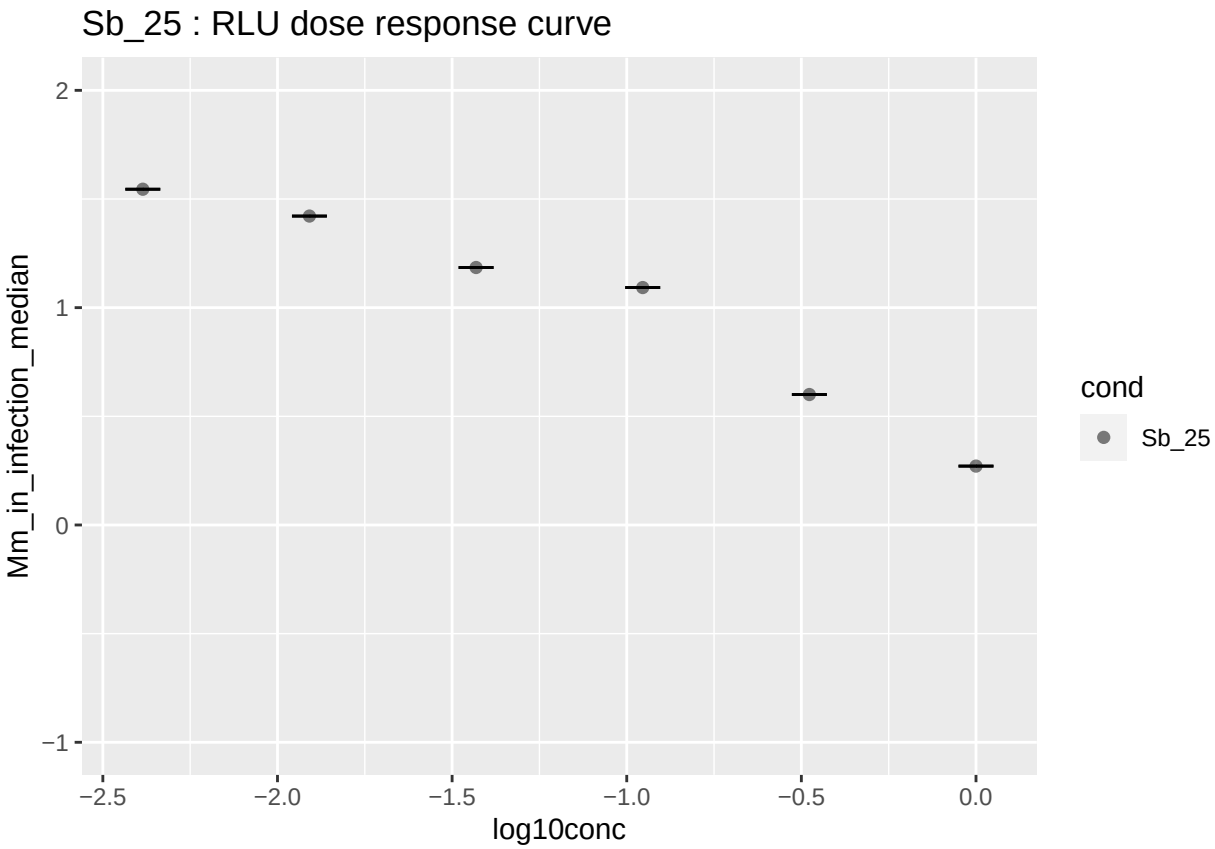
− : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
−

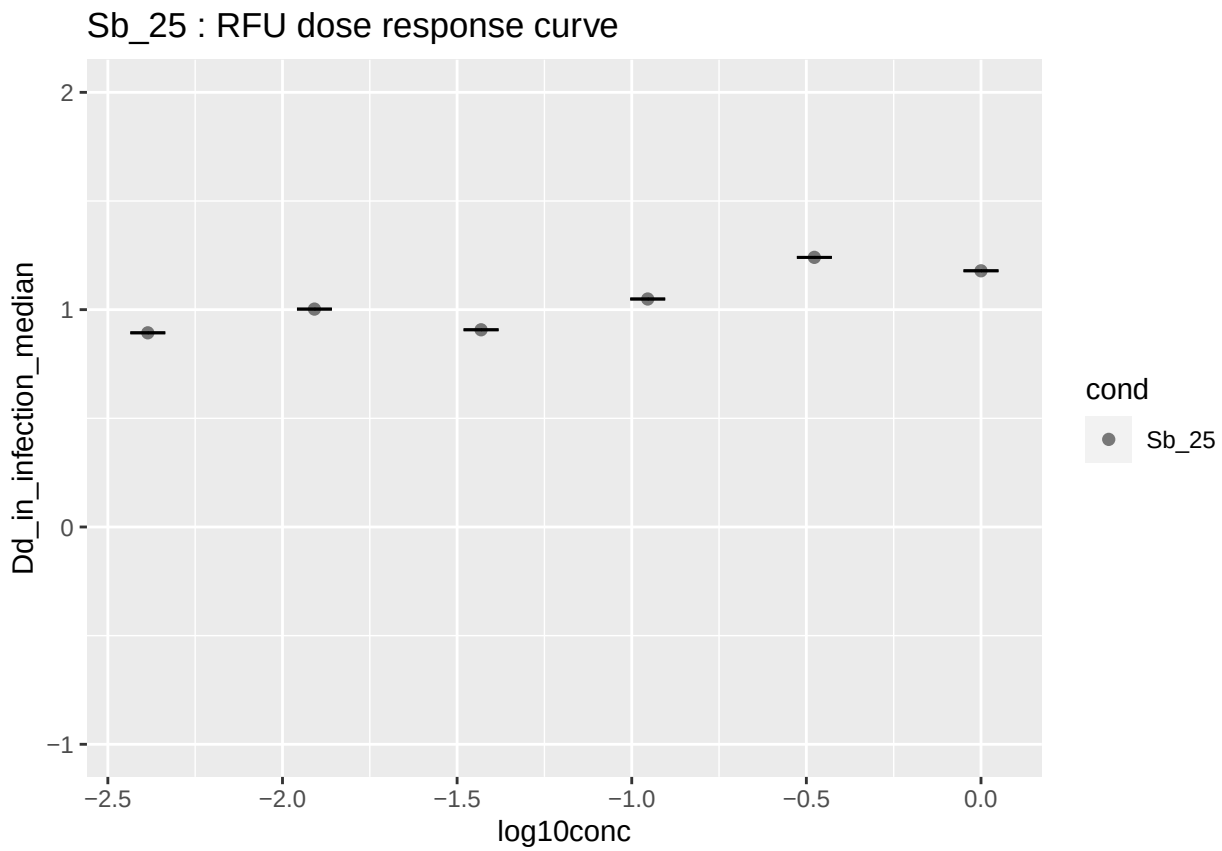

Pt_48 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

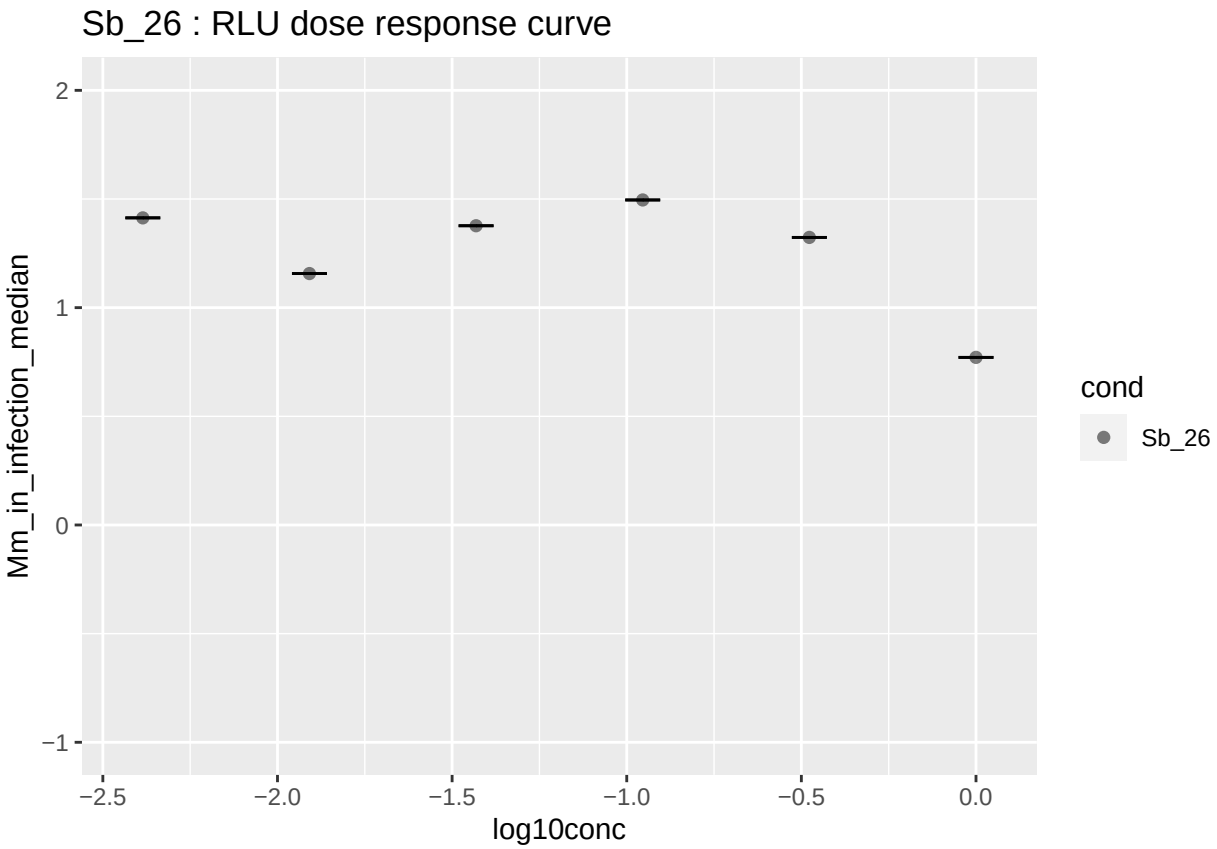

Pt_48 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Pt_48

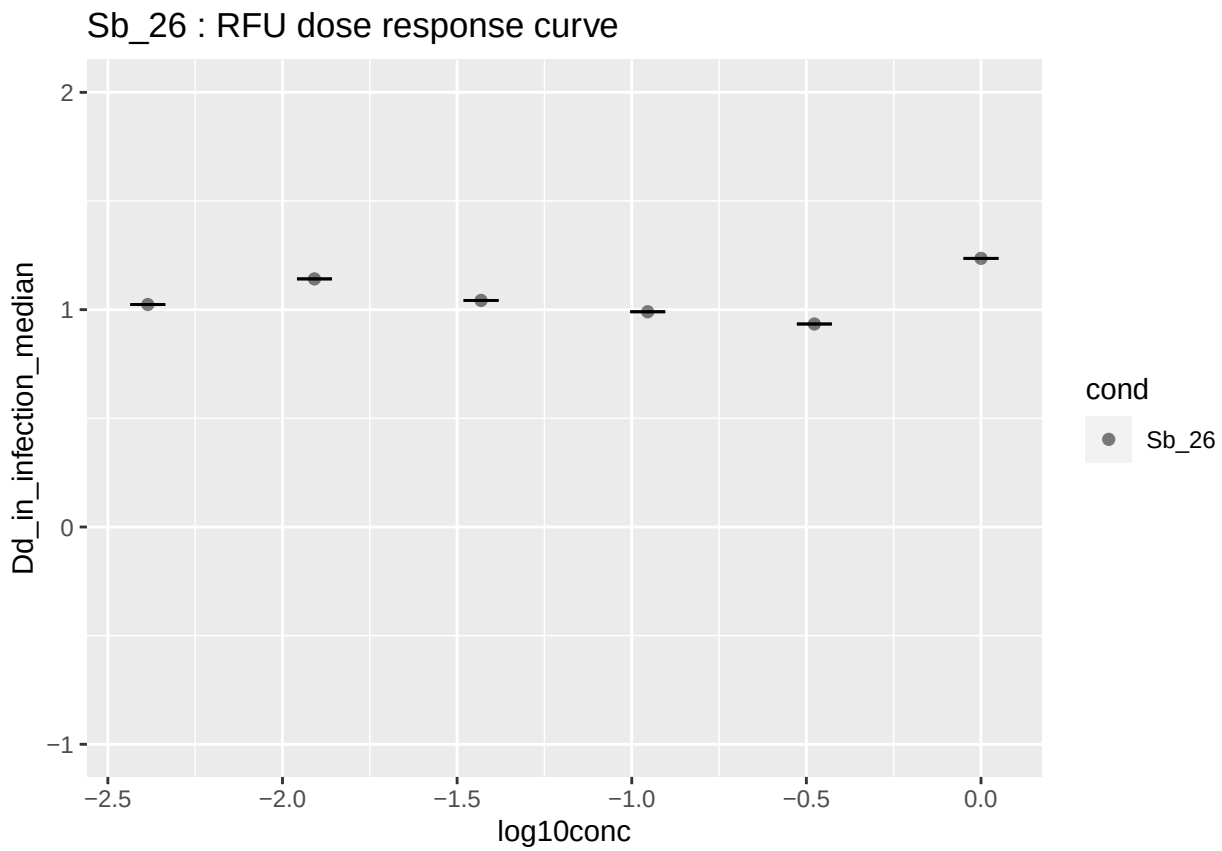

Sb_24 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

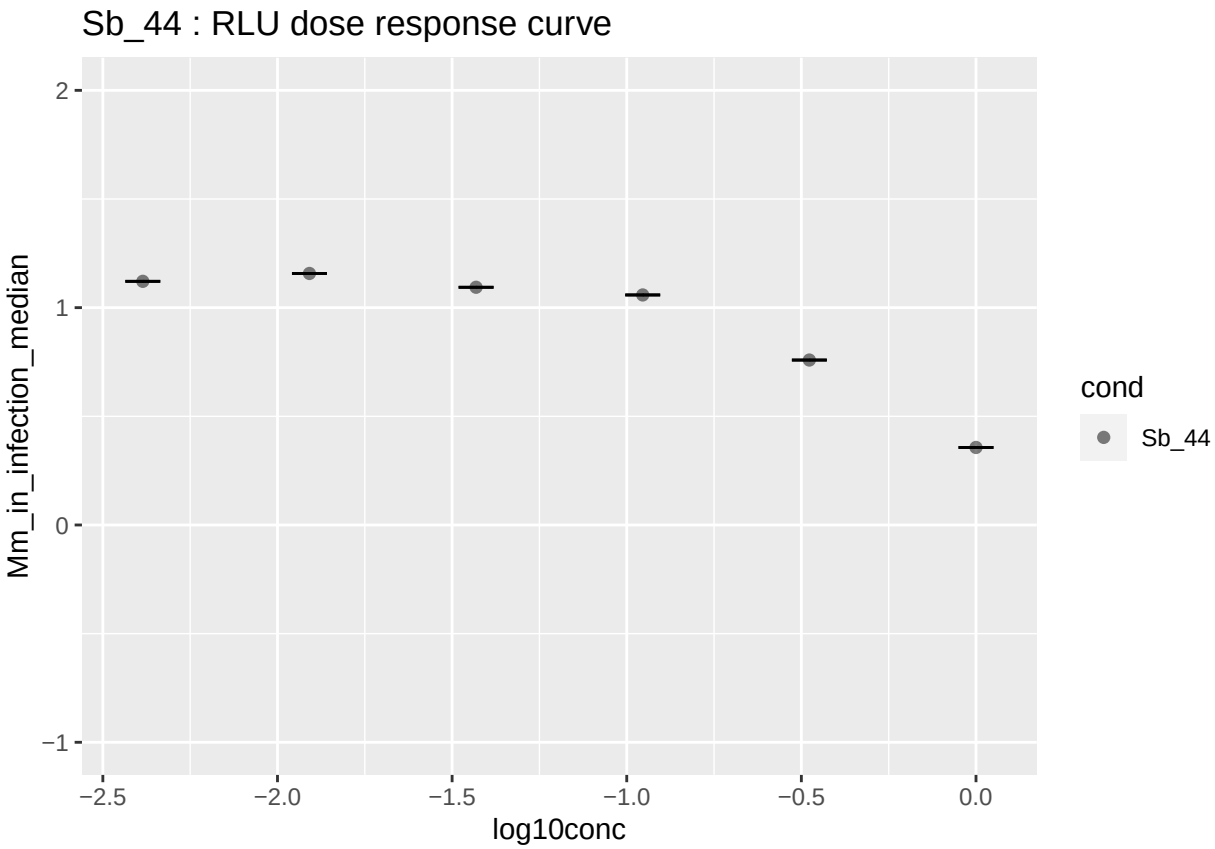

Sb_24 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_24

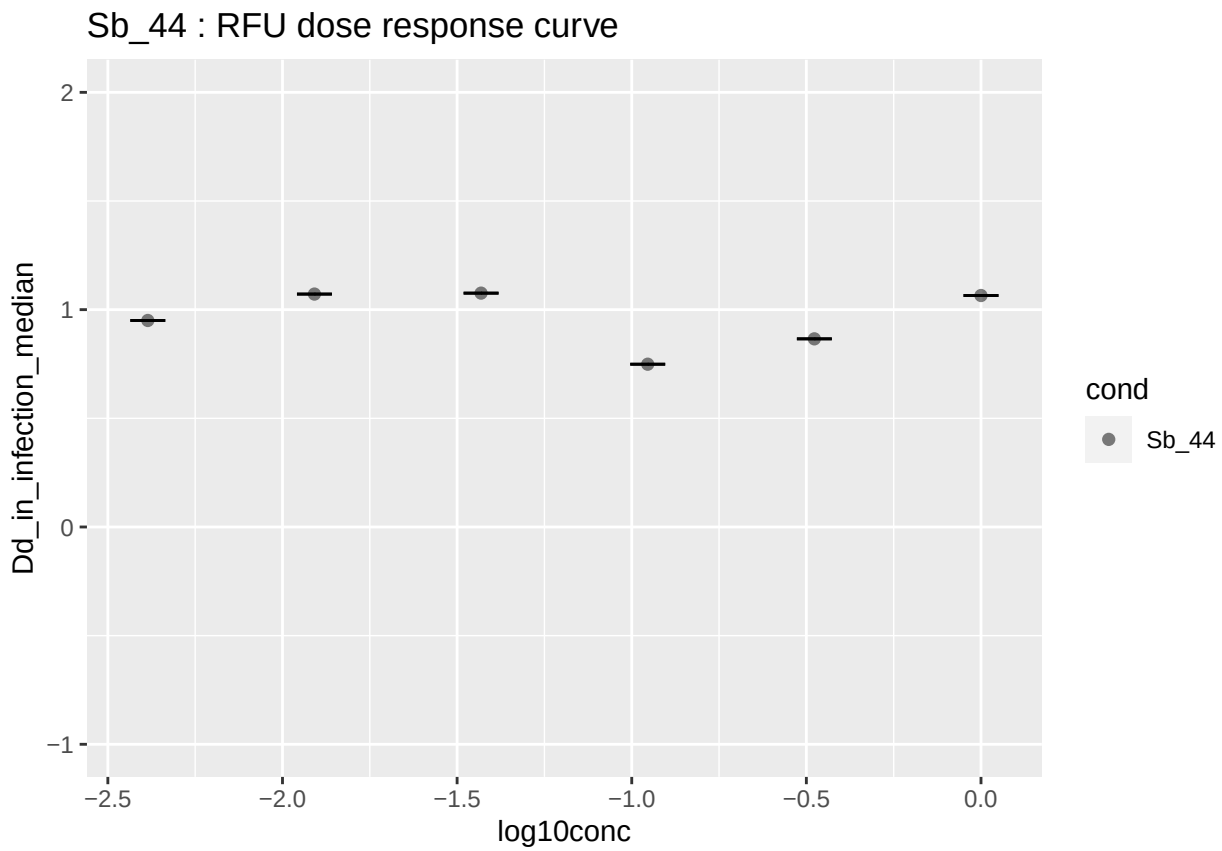

Sb_25 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

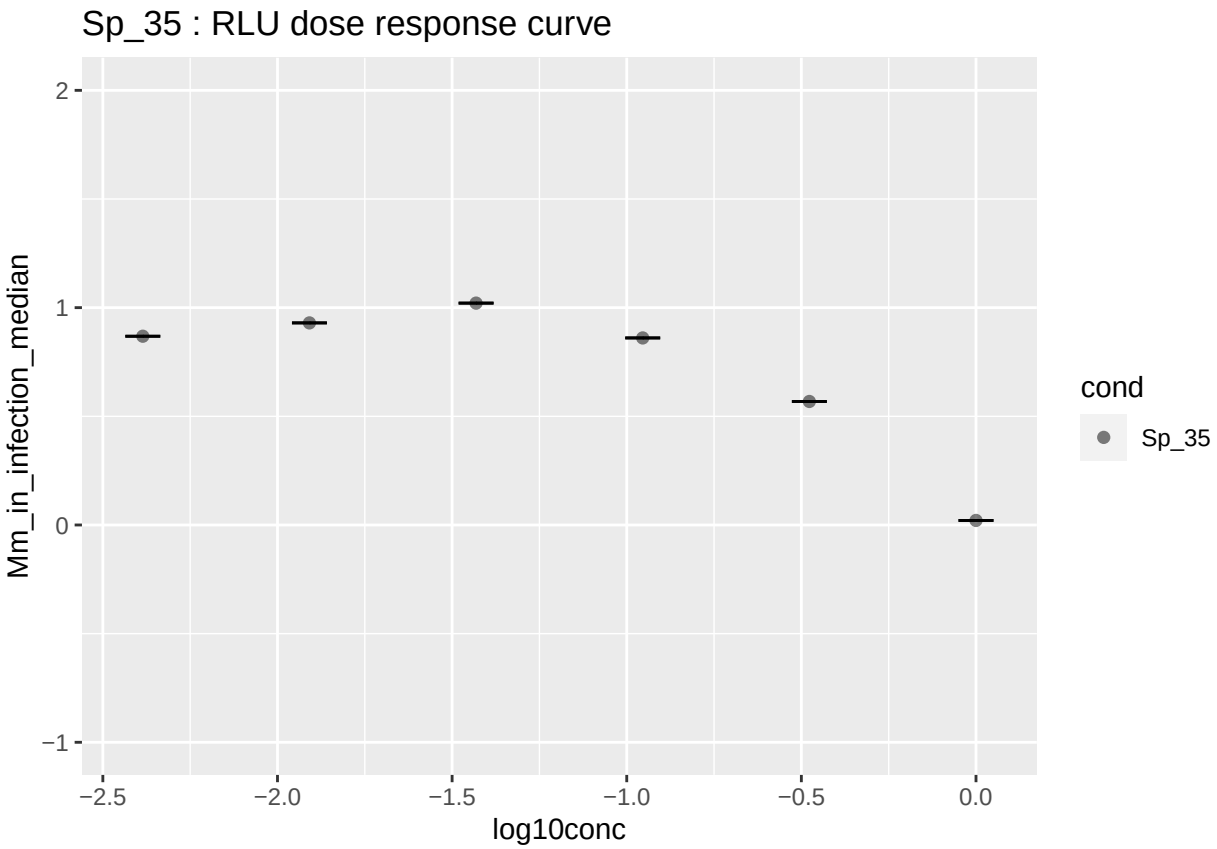

Sb_25 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_25

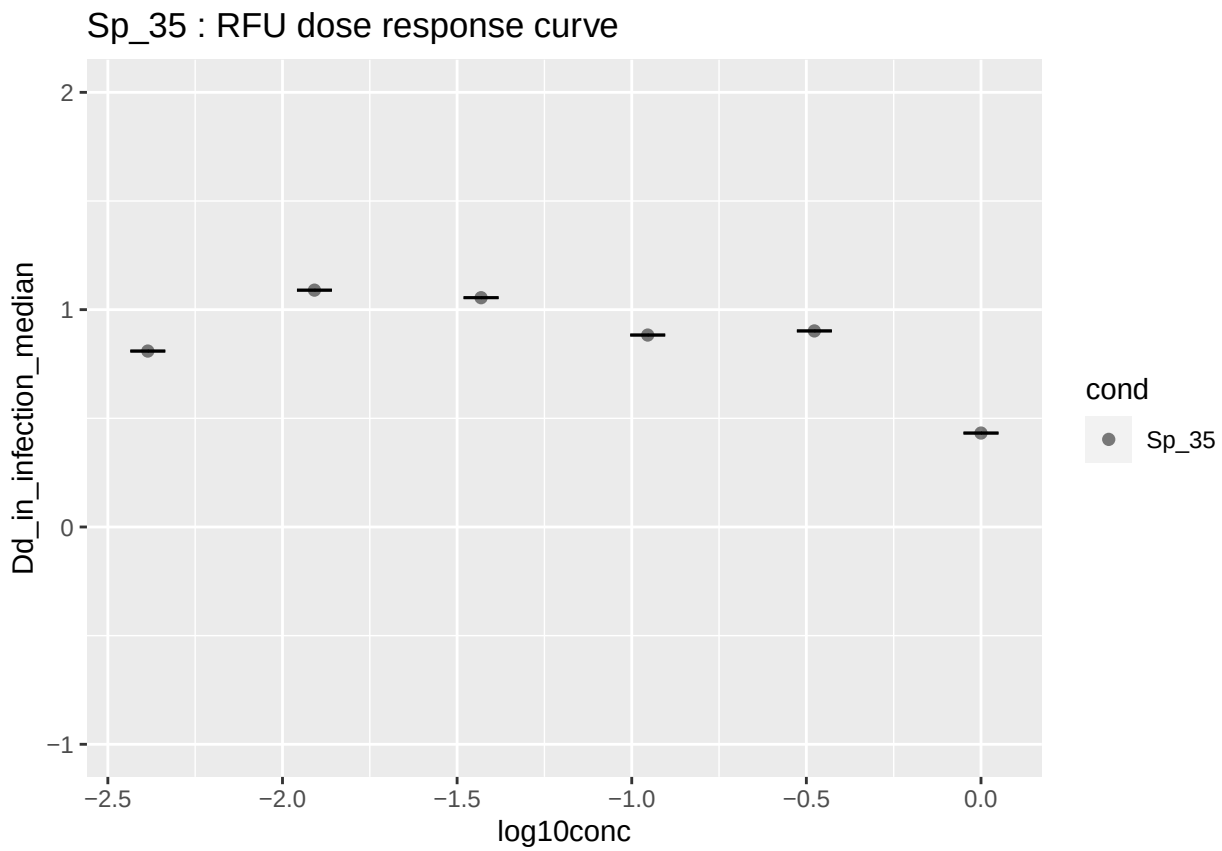

Sb_26 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

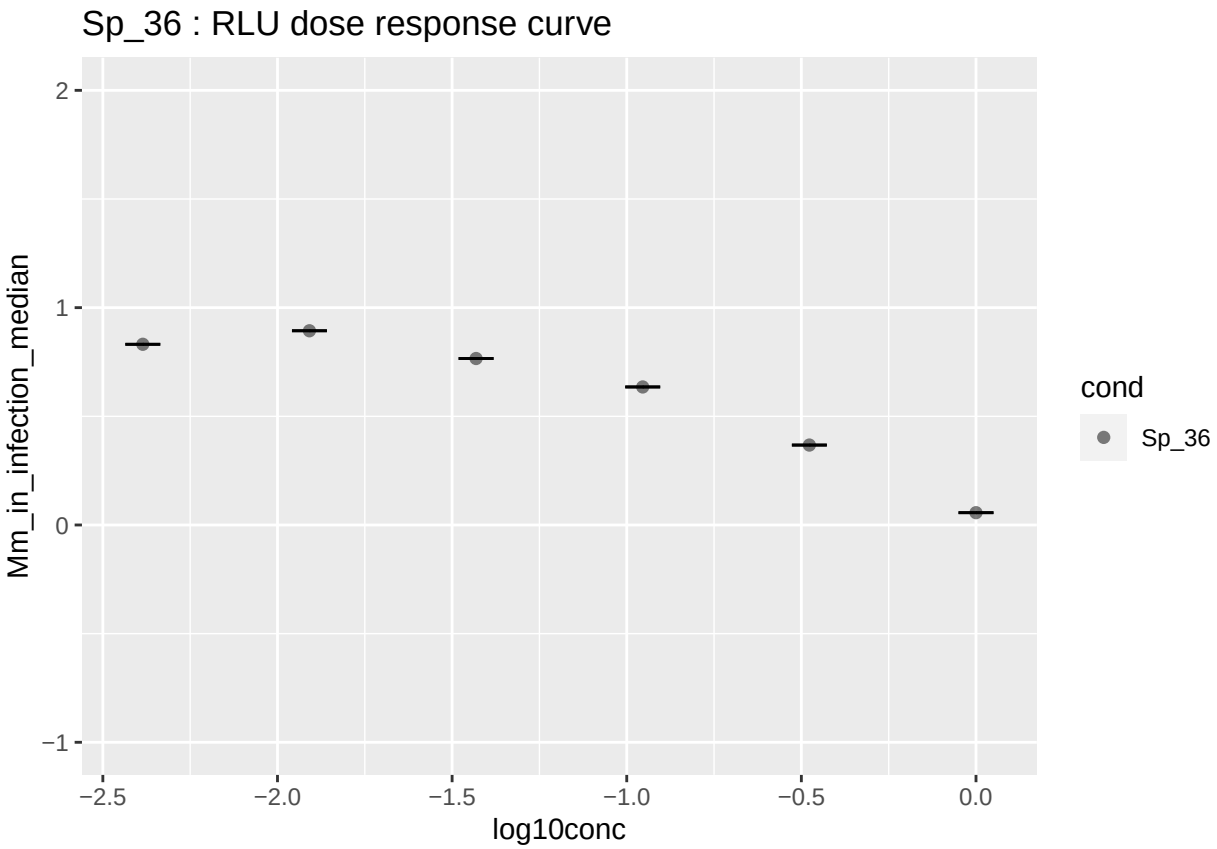

Sb_26 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_26

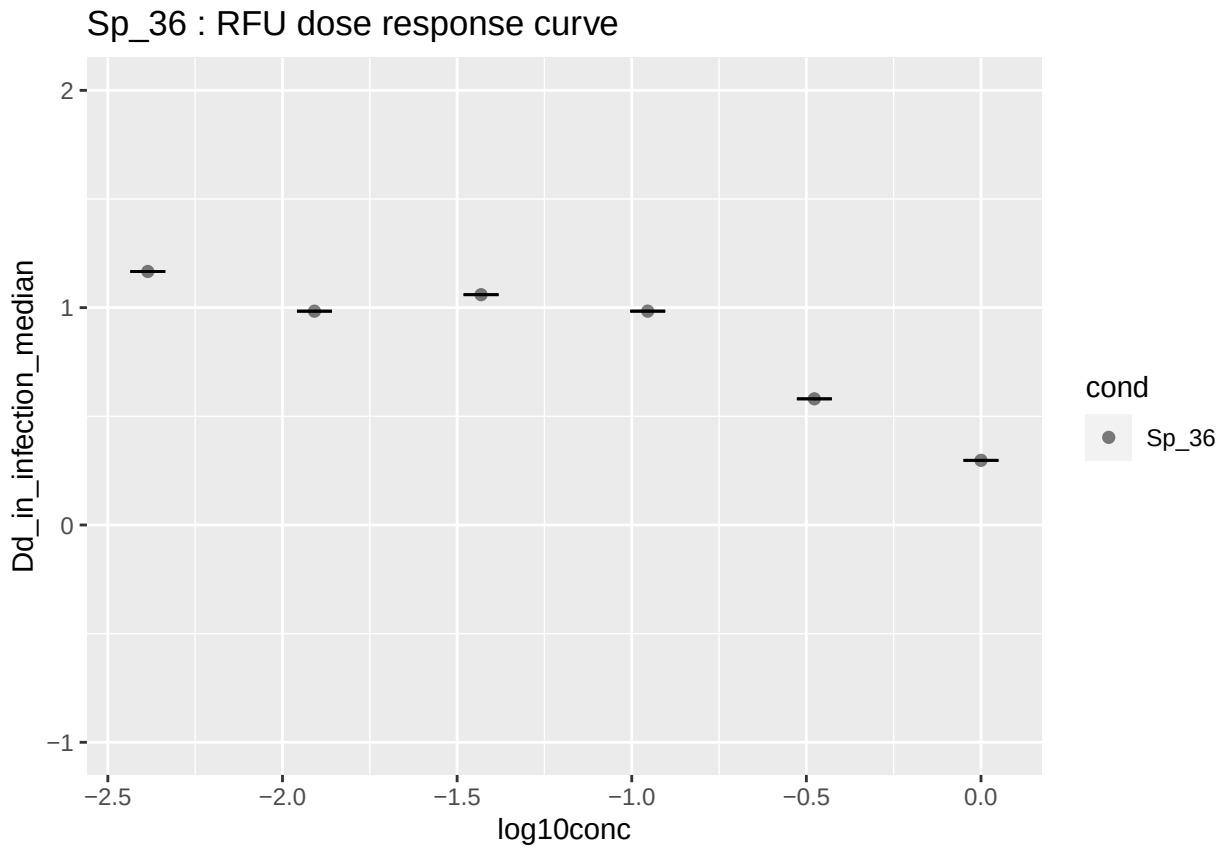

Sb_44 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

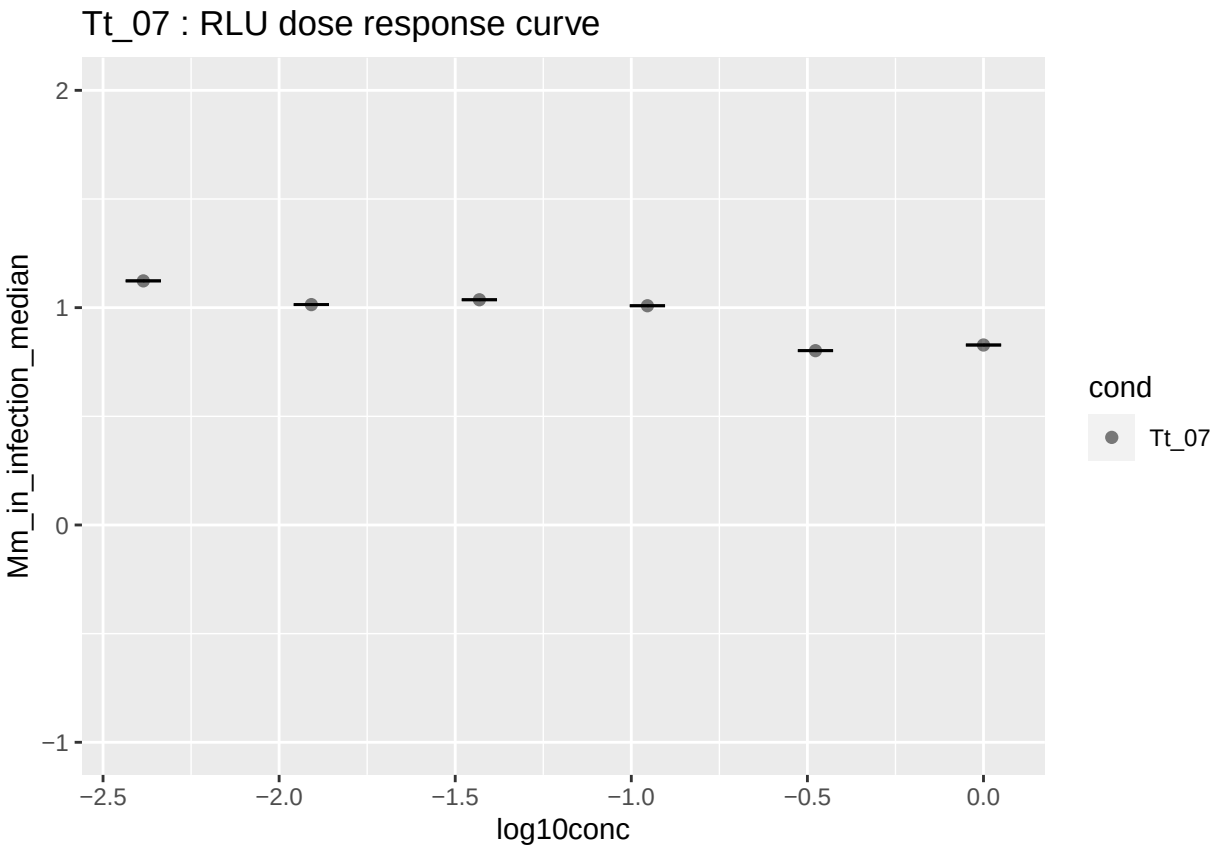

Sb_44 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sb_44

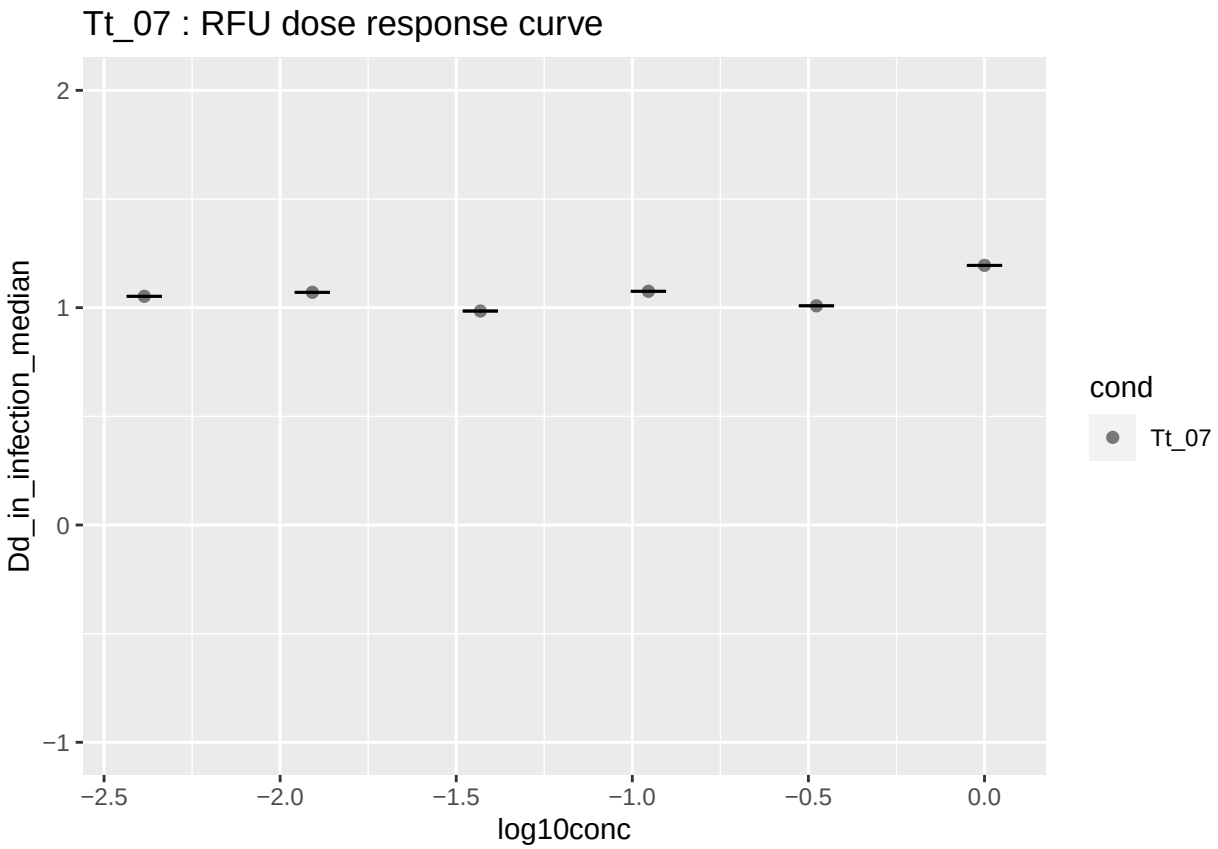

Sp_35 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35

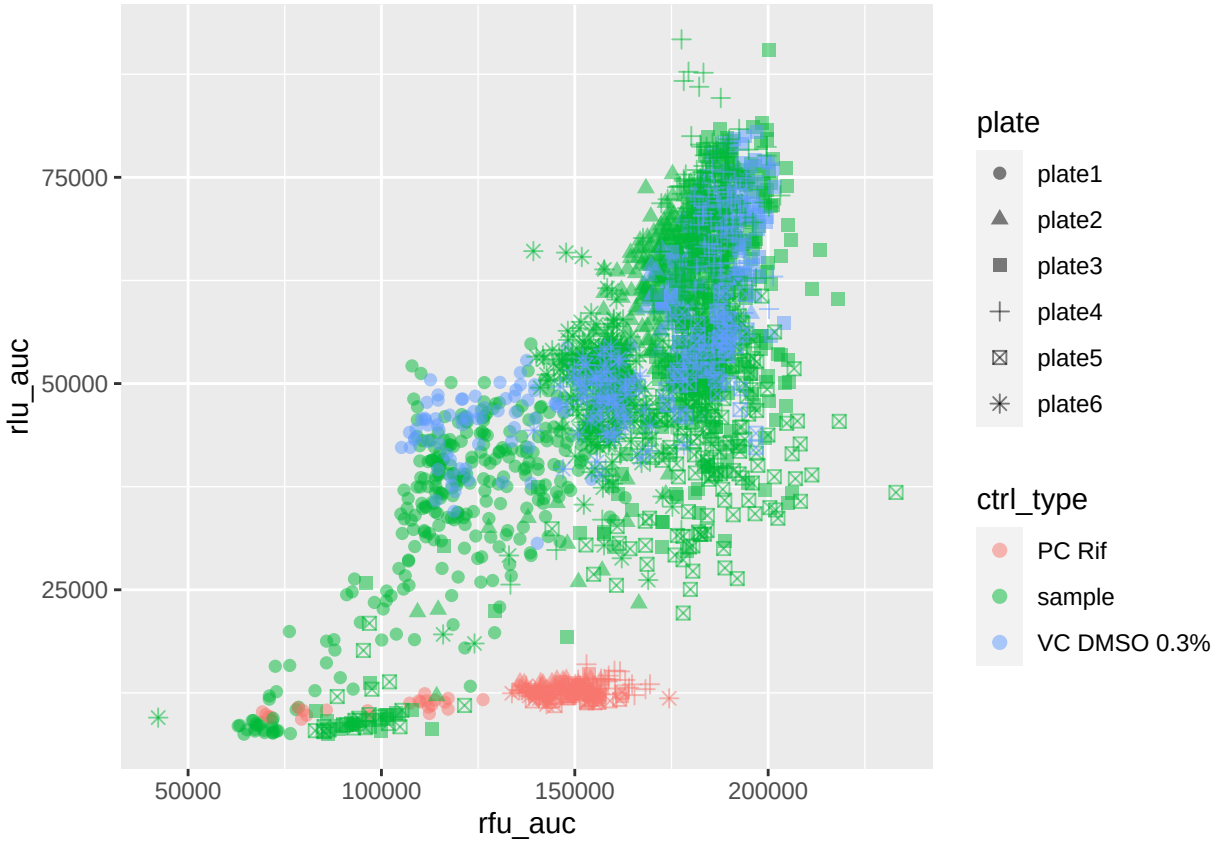

Sp_35 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_35

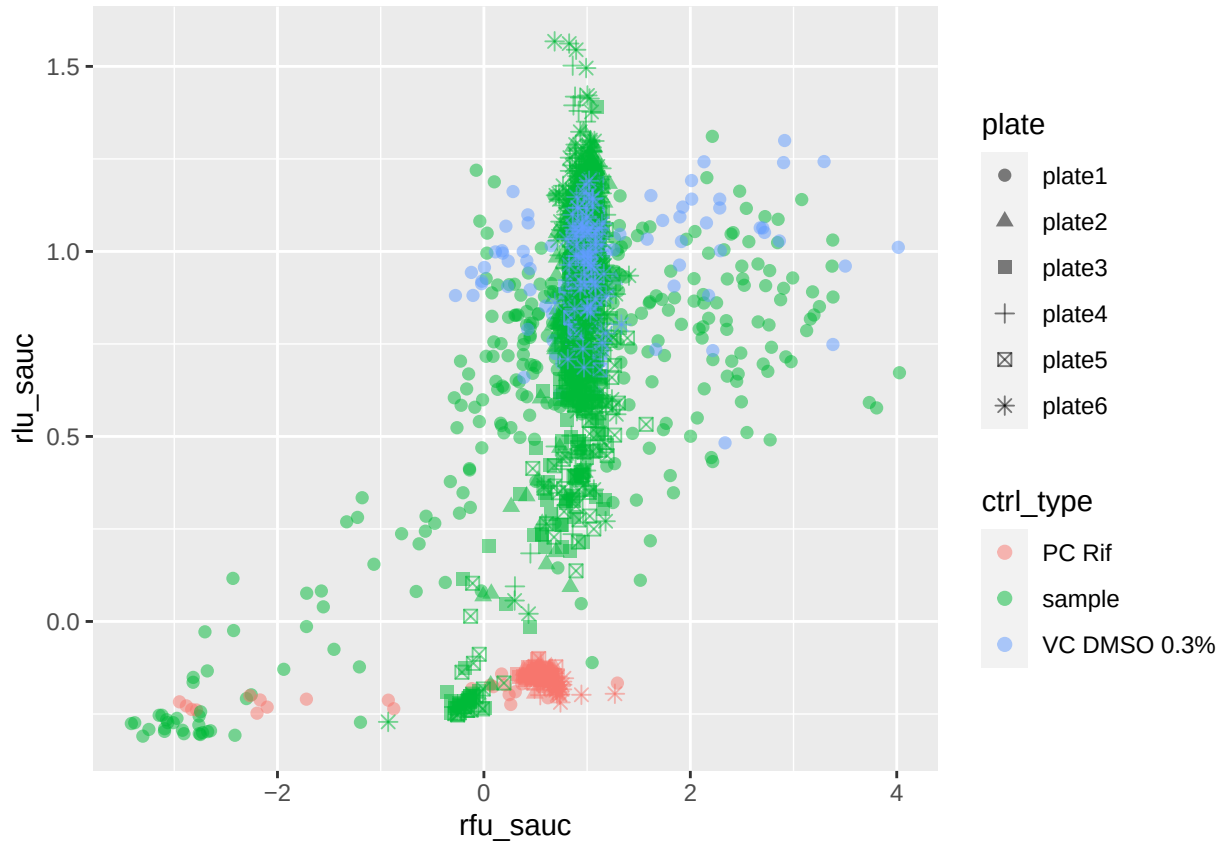

Sp_36 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36

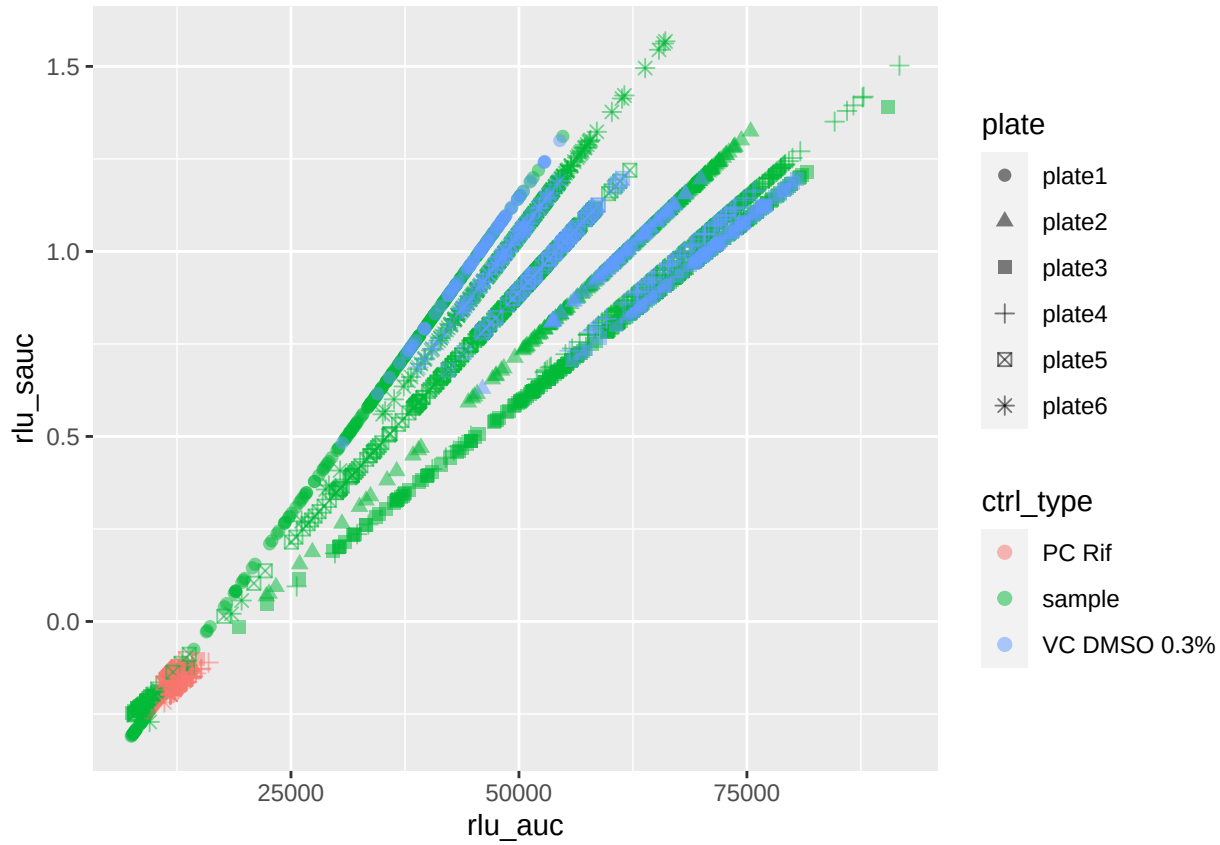

Sp_36 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Sp_36

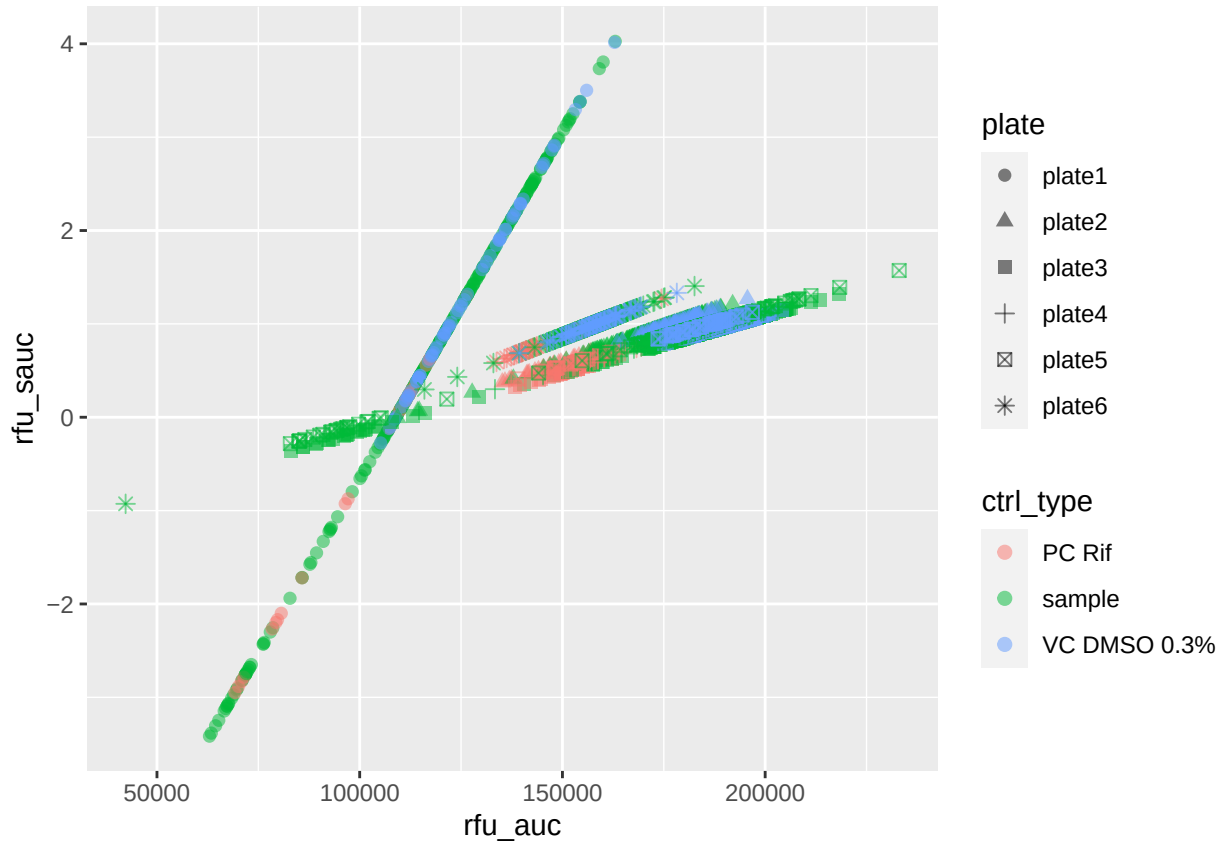

Tt_07 : RLU dose response curve
Mm_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Tt_07

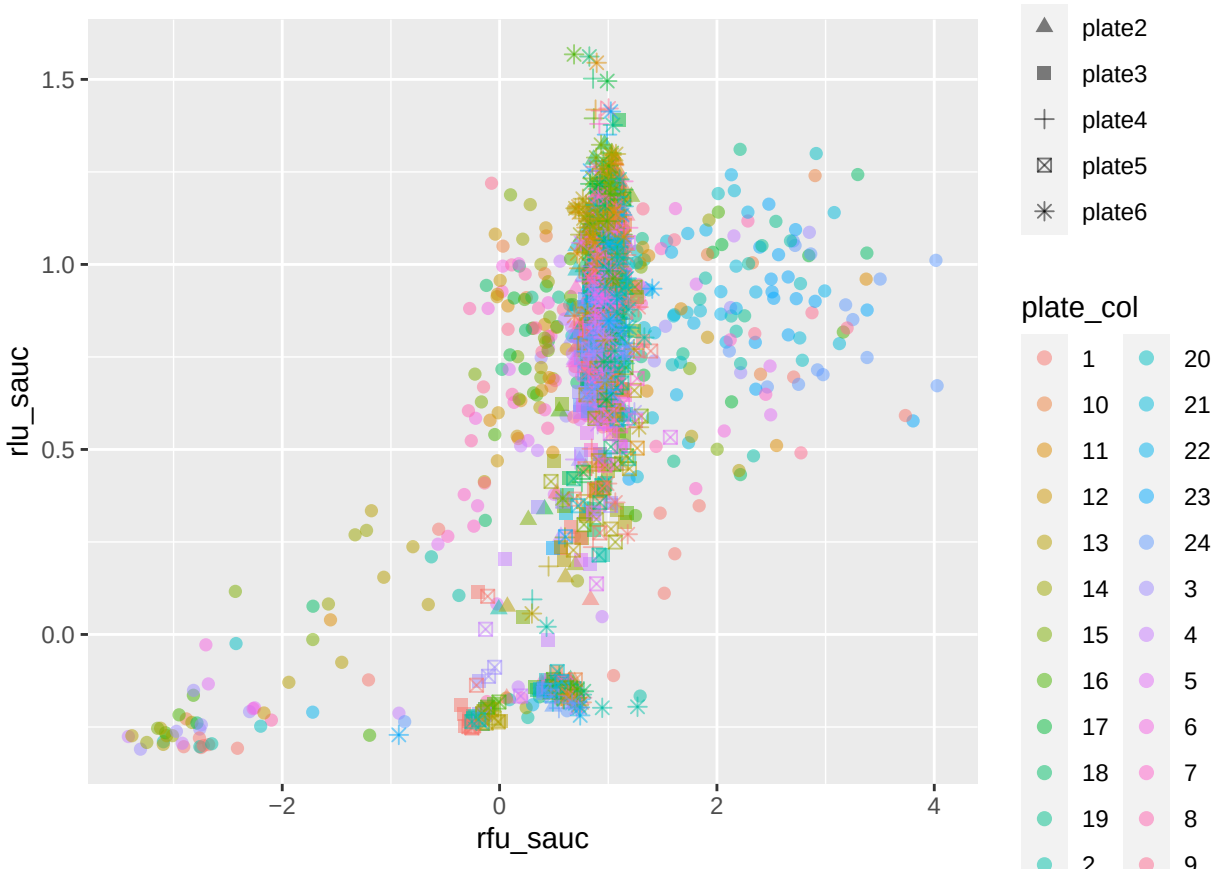

Tt_07 : RFU dose response curve
Dd_in_infection_median
2
1
0
−1
−2.5
−2.0
−1.5
−1.0
−0.5
0.0
log10conc
cond
Tt_07

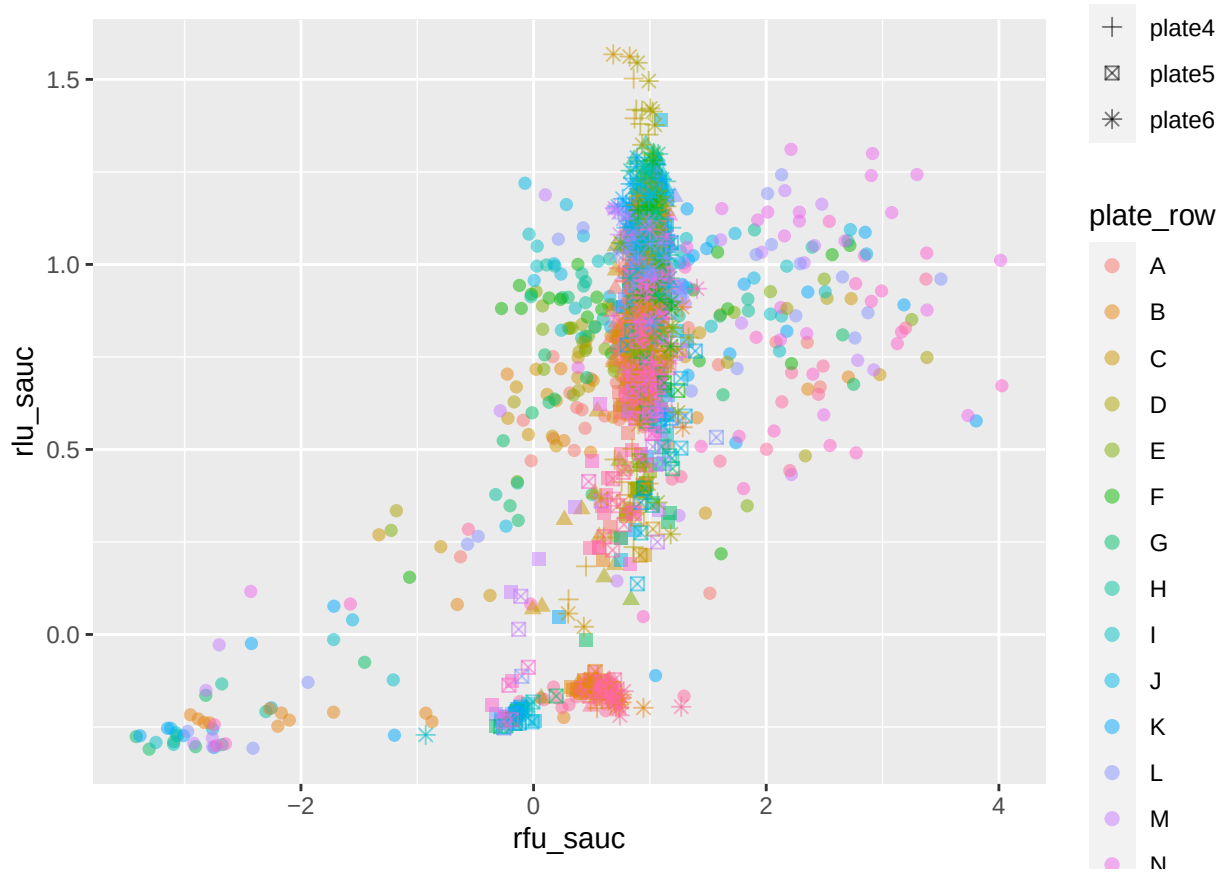

75000
50000
25000
rlu_auc
50000
100000
150000
200000
rfu_auc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%

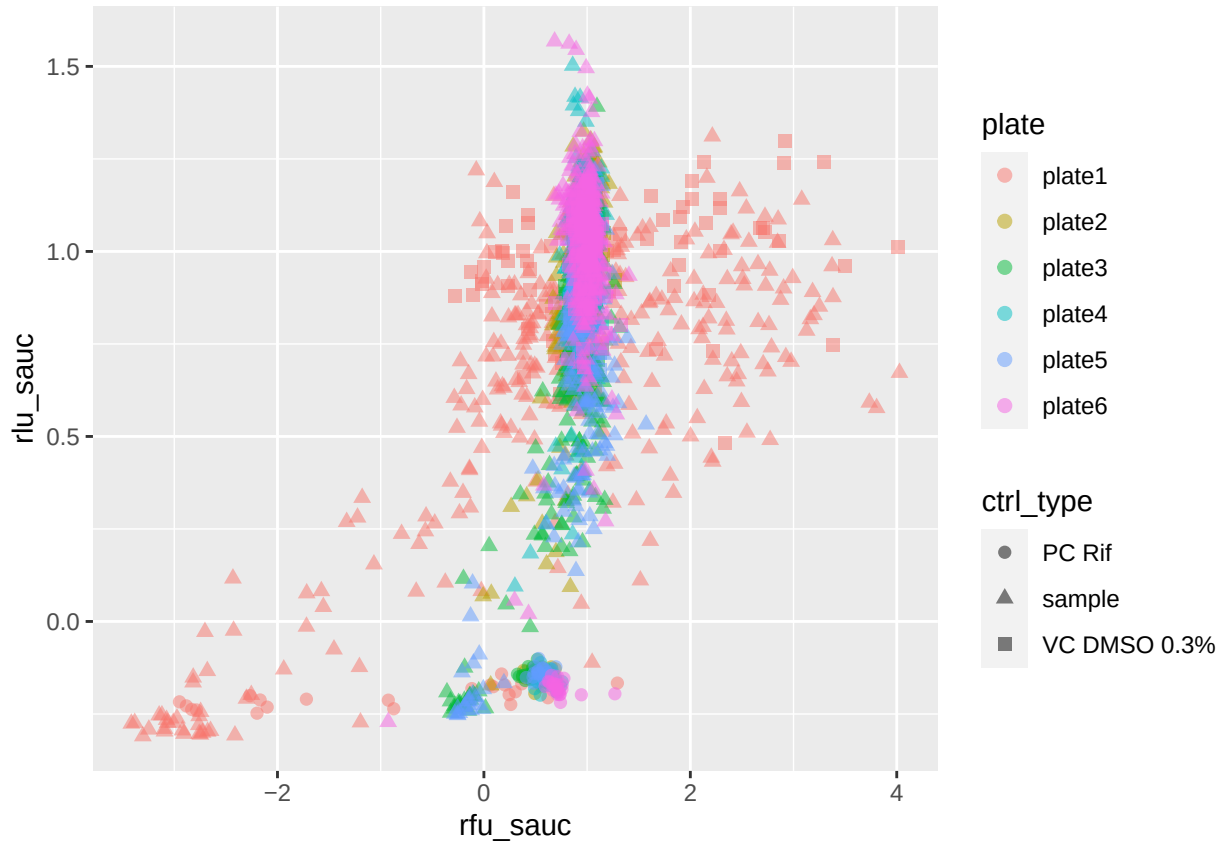

1.5
1.0
0.5
0.0
rlu_sauc
−2
0
2
4
rfu_sauc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%

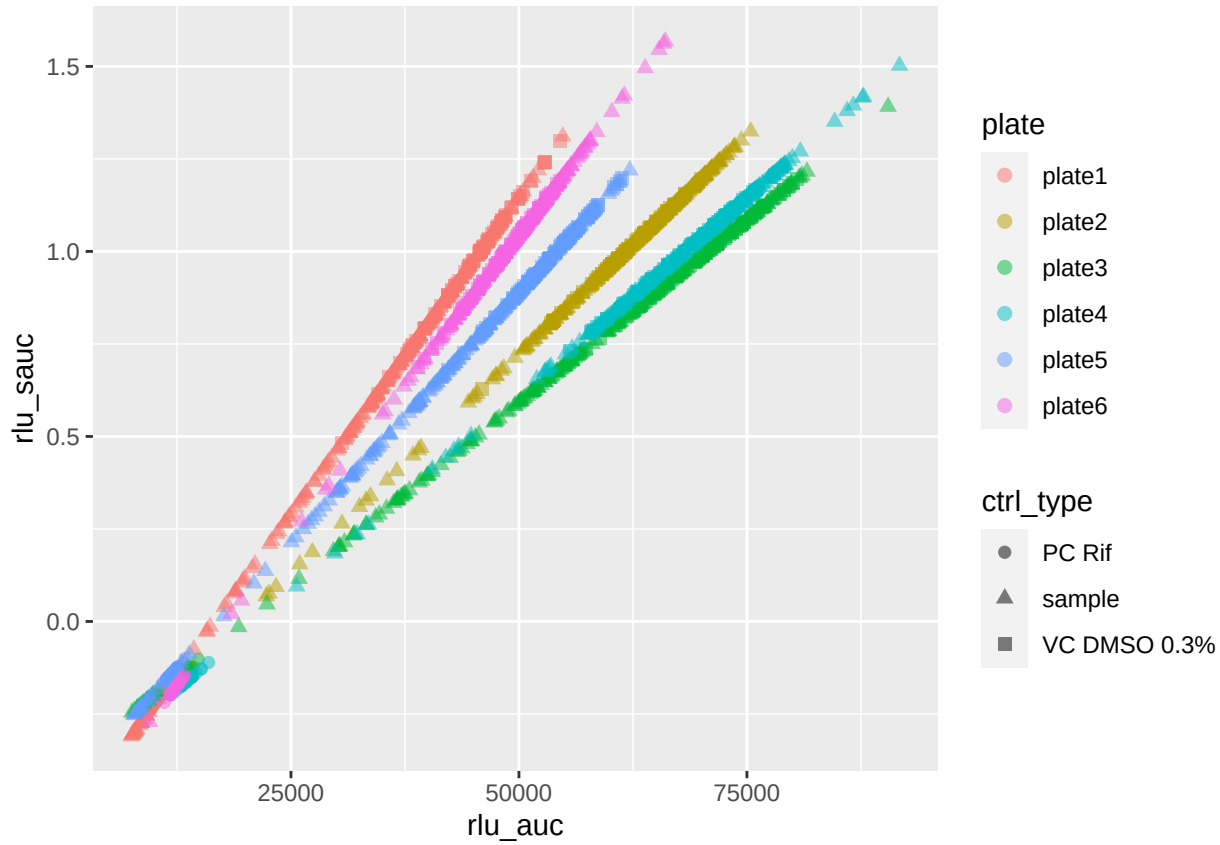

1.5
1.0
0.5
0.0
rlu_sauc
25000
50000
75000
rlu_auc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%

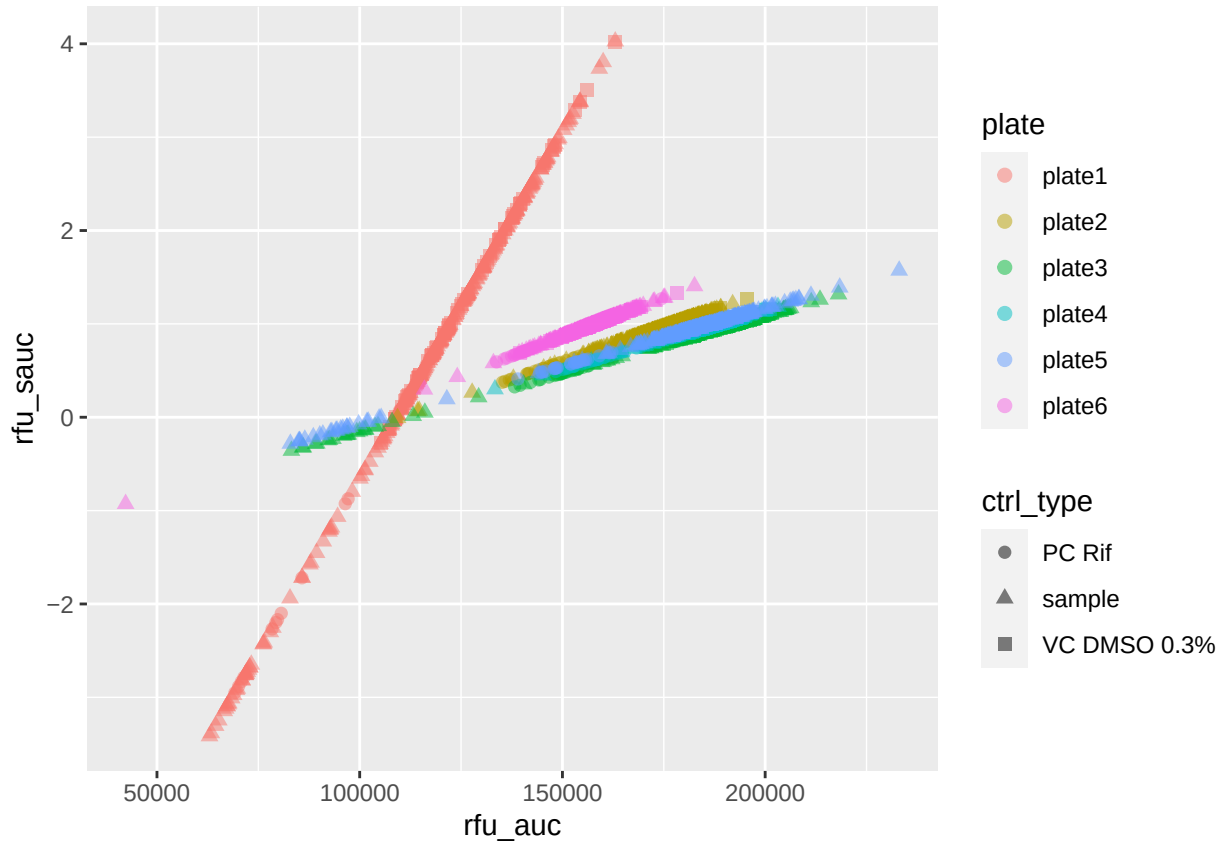

4
2
0
−2
rfu_sauc
50000
100000
150000
200000
rfu_auc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
−2
0
2
4
rfu_sauc
plate2
plate3
plate4
plate5
plate6
plate_col
1
10
11
12
13
14
15
16
17
18
19
2
20
21
22
23
24
3
4
5
6
7
8
9


1.5
1.0
0.5
0.0
rlu_sauc
−2
0
2
4
rfu_sauc
plate4
plate5
plate6
plate_row
A
B
C
D
E
F
G
H
I
J
K
L
M
N


1.5
1.0
0.5
0.0
rlu_sauc
−2
0
2
4
rfu_sauc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%


1.5
1.0
0.5
0.0
rlu_sauc
25000
50000
75000
rlu_auc
plate
plate1
plate2
plate3
plate4
plate5
plate6
ctrl_type
PC Rif
sample
VC DMSO 0.3%




```
## 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
```