# Summary of Analysis

Dose-response data quality good.
Best model found:log_logistic

## Model Predictions

| Model | Chi-squared | p-val | AIC | BMD10 | BMDL10 |
|---|---|---|---|---|---|
| logistic | 29.162 | 0.0 | 263.698 | 0.192 | 0.16 |
| gamma | 7.231 | 0.204 | 241.684 | 0.043 | 0.023 |
| weibull | 6.904 | 0.228 | 241.396 | 0.043 | 0.034 |
| log_logistic | 6.033 | 0.303 | 240.433 | 0.048 | 0.028 |
| probit | nan | nan | nan | nan | nan |
| log_probit | nan | nan | nan | nan | nan |
| multistage_2 | 54.532 | 0.0 | 279.607 | 0.039 | nan |
| quantal_linear | 10.035 | 0.123 | 241.909 | 0.065 | 0.053 |

## Scaled Residuals

| Model | dose0 | dose1 | dose2 | dose3 | dose4 | dose5 | dose6 | dose7 |
|---|---|---|---|---|---|---|---|---|
| logistic | 2.10931 | 1.127983 | 1.723308 | -0.079729 | -0.057484 | -4.140187 | -0.806975 | 1.63369 |
| gamma | 0.018974 | -0.275654 | 1.125778 | -0.132042 | 0.749473 | -2.202077 | 0.483783 | 0.474432 |
| weibull | 0.018974 | -0.315077 | 1.119299 | -0.106032 | 0.804918 | -2.117166 | 0.520718 | 0.372258 |
| log_logistic | 0.018975 | -0.737478 | 0.938277 | -0.186157 | 0.944035 | -1.75436 | 0.774734 | 0.069765 |
| probit | nan | nan | nan | nan | nan | nan | nan | nan |
| log_probit | nan | nan | nan | nan | nan | nan | nan | nan |
| multistage_2 | 1.600073 | 0.966741 | 1.96474 | 1.066589 | 2.128954 | -0.034261 | 3.619191 | 5.329829 |
| quantal_linear | 0.435995 | -0.898024 | 0.702589 | -0.758702 | 0.315835 | -2.438028 | 0.683579 | 1.207394 |

Dose-response with best fit model (log_logistic)