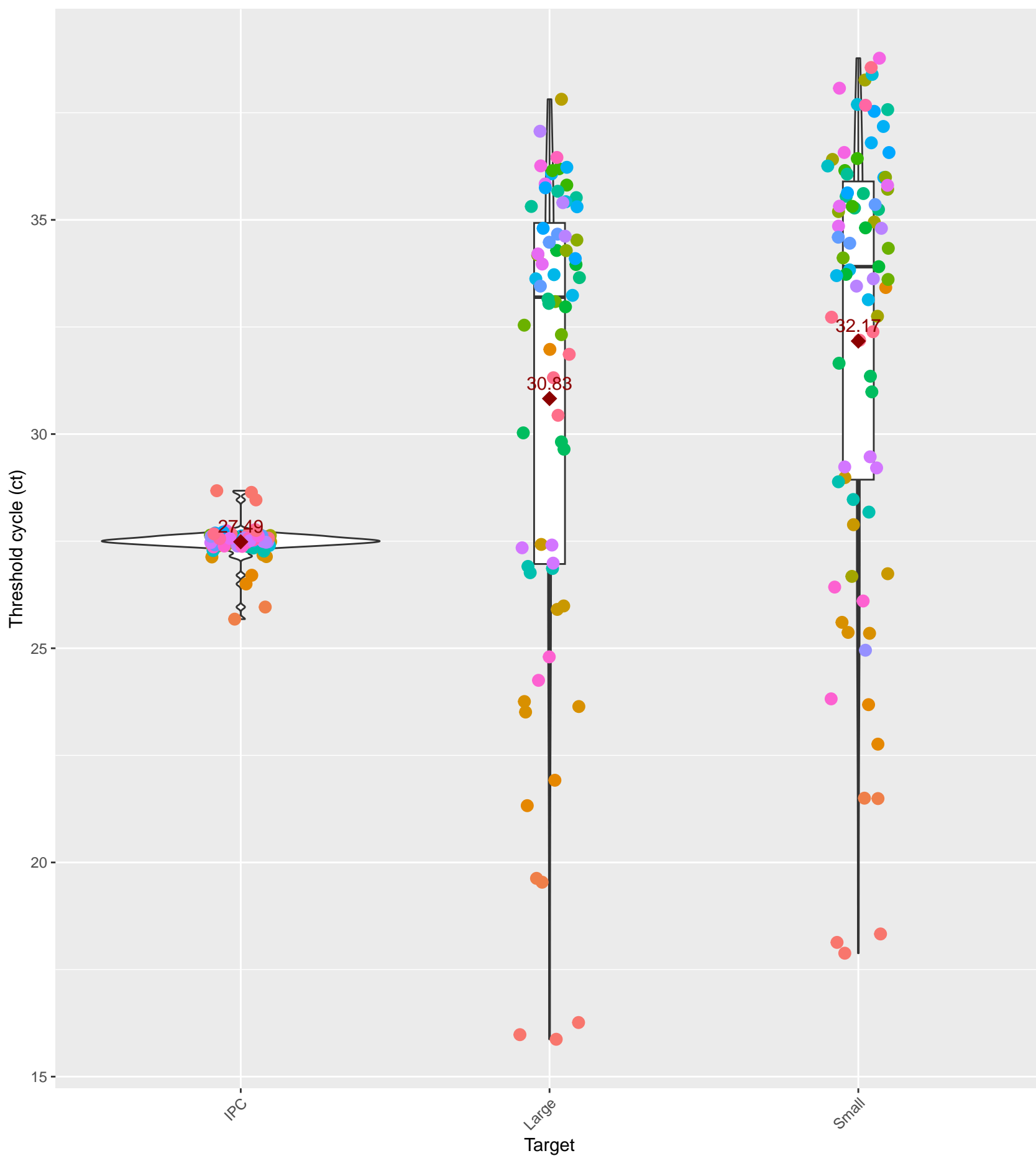


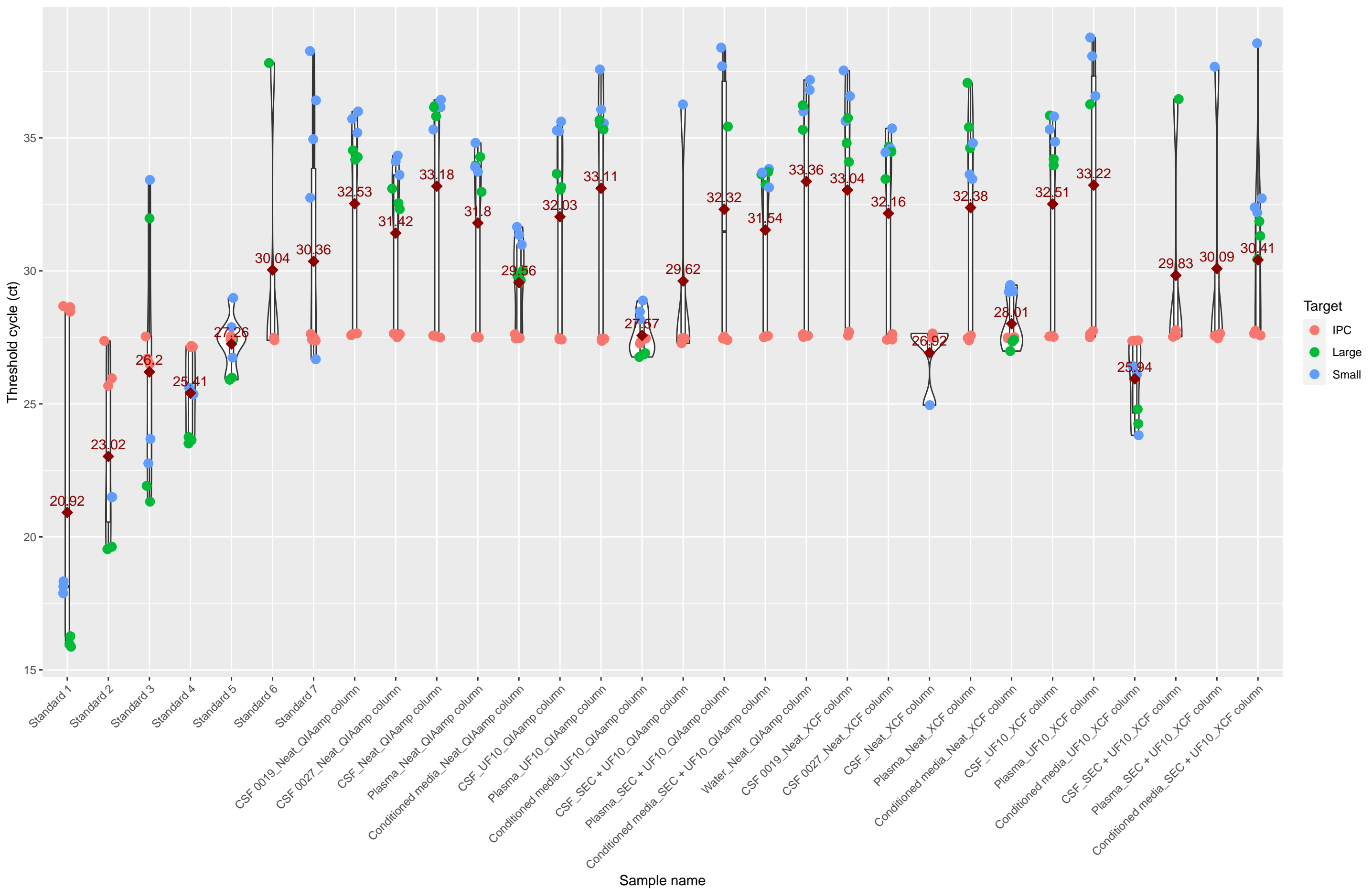
Targets



Sample name

- Standard 1
- Standard 2
- Standard 3
- Standard 4
- Standard 5
- Standard 6
- Standard 7
- CSF 0019_Neat_QIAamp column
- Plasma_SEC + UF10_QIAamp column
- Conditioned media_SEC + UF10_QIAamp column
- Water_Neat_QIAamp column
- CSF 0019_Neat_XCF column
- CSF 0027_Neat_XCF column
- CSF_Neat_XCF column
- Plasma_Neat_XCF column
- Conditioned media_Neat_XCF column
- CSF_UF10_XCF column
- Plasma_UF10_XCF column
- Conditioned media_UF10_XCF column
- CSF_SEC + UF10_XCF column
- Plasma_SEC + UF10_XCF column
- Conditioned media_SEC + UF10_XCF column
- CSF_Neat_QIAamp column
- Plasma_Neat_QIAamp column
- Conditioned media_Neat_QIAamp column
- CSF_UF10_QIAamp column
- Plasma_UF10_QIAamp column
- Conditioned media_UF10_QIAamp column

Samples



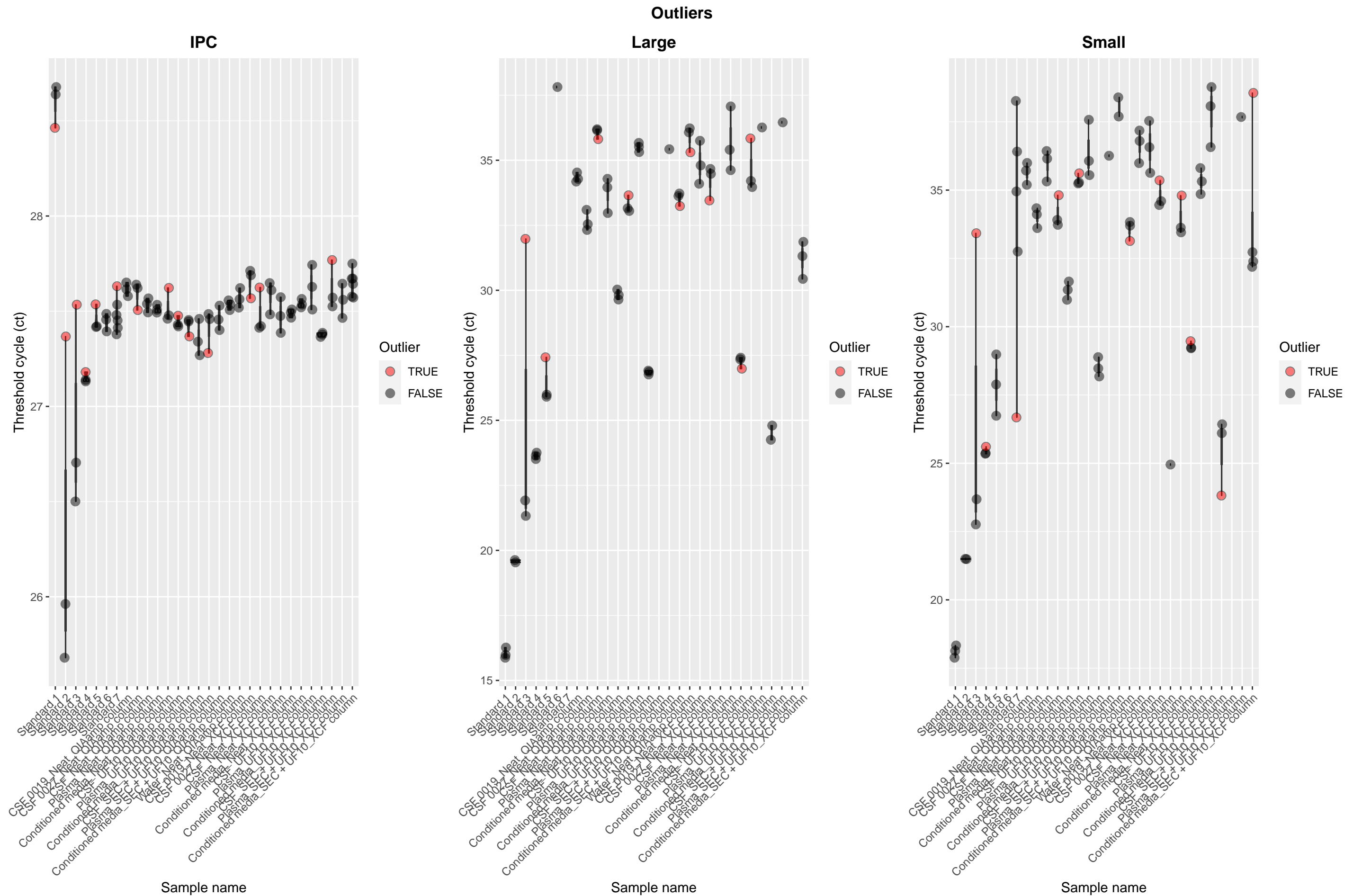
IPC outlier wells



IPC
Target

IPC outlier

● FALSE
● TRUE

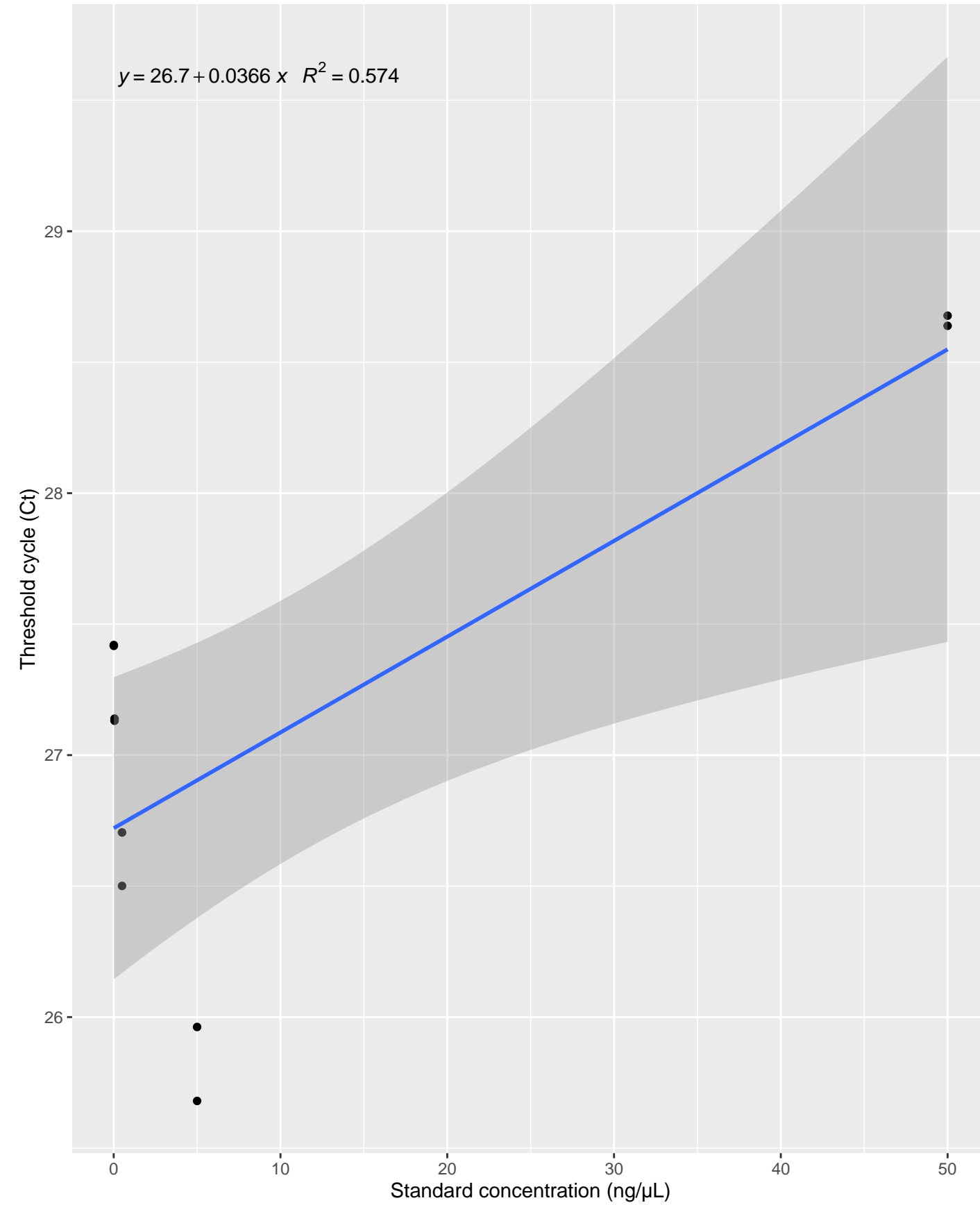


IPC standard curve

linear

$y \sim x$

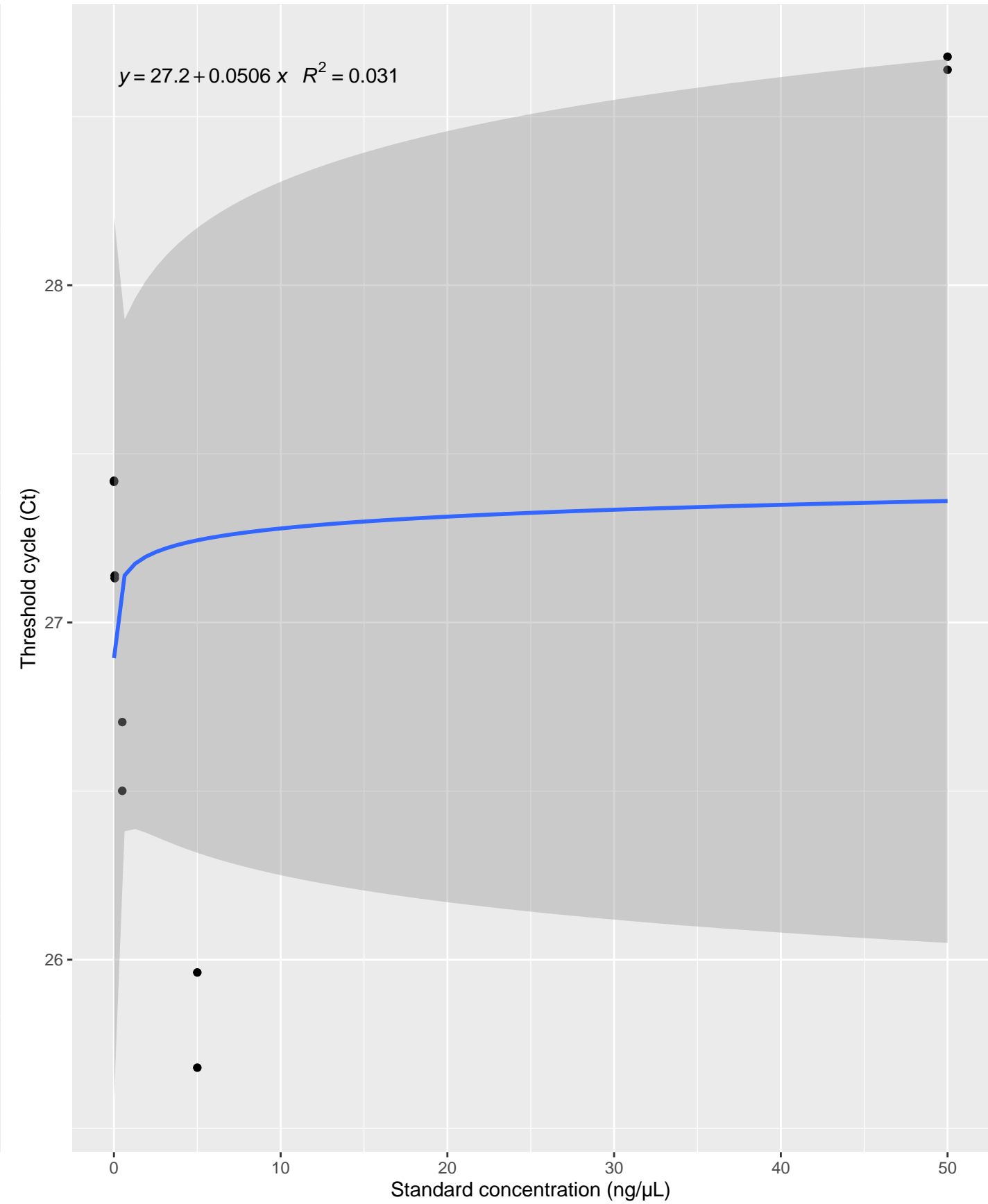
$$y = 26.7 + 0.0366x \quad R^2 = 0.574$$



log

$y \sim \log(x)$

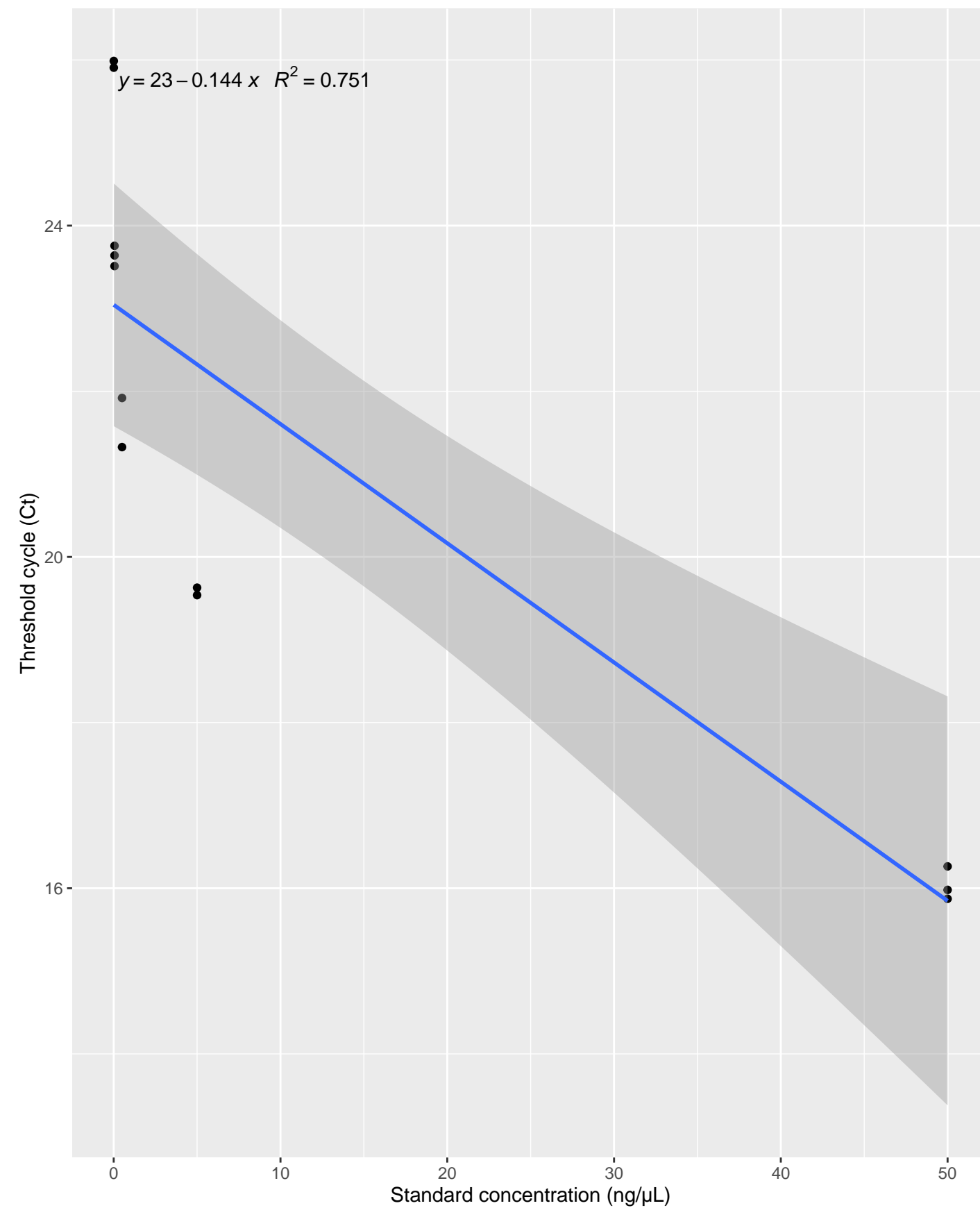
$$y = 27.2 + 0.0506x \quad R^2 = 0.031$$



Large standard curve

linear

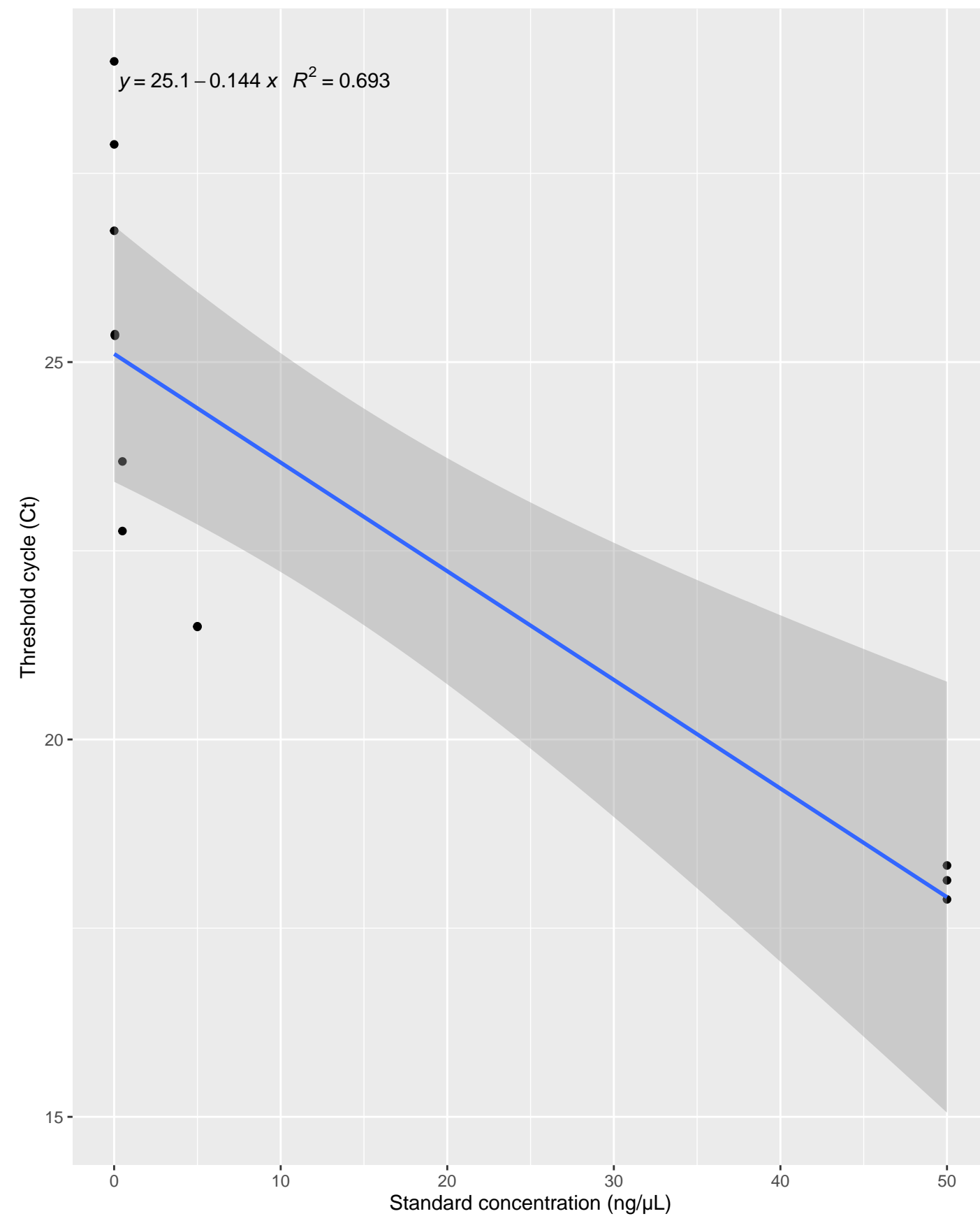
$y \sim x$



Small standard curve

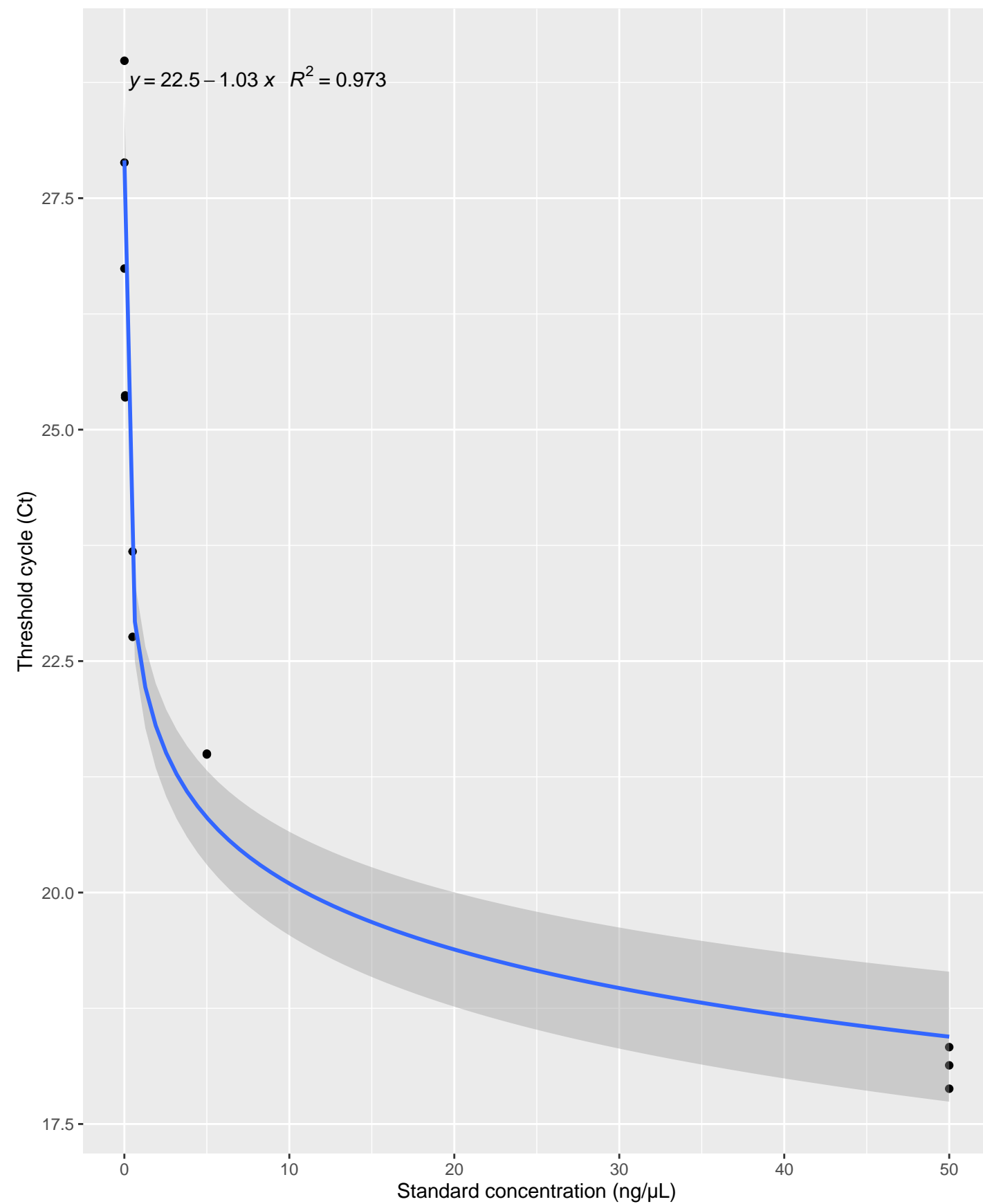
linear

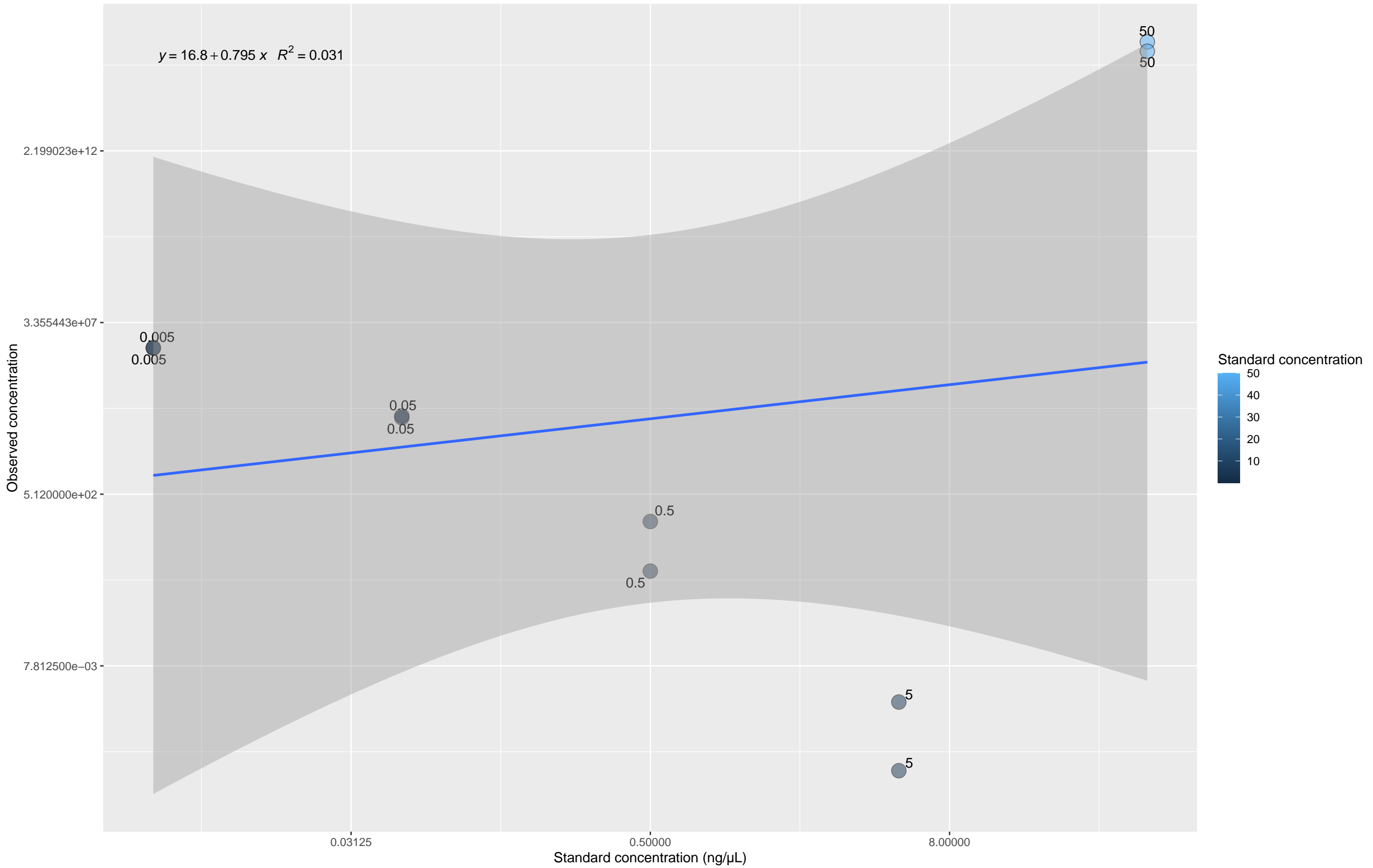
$y \sim x$



log

$y \sim \log(x)$



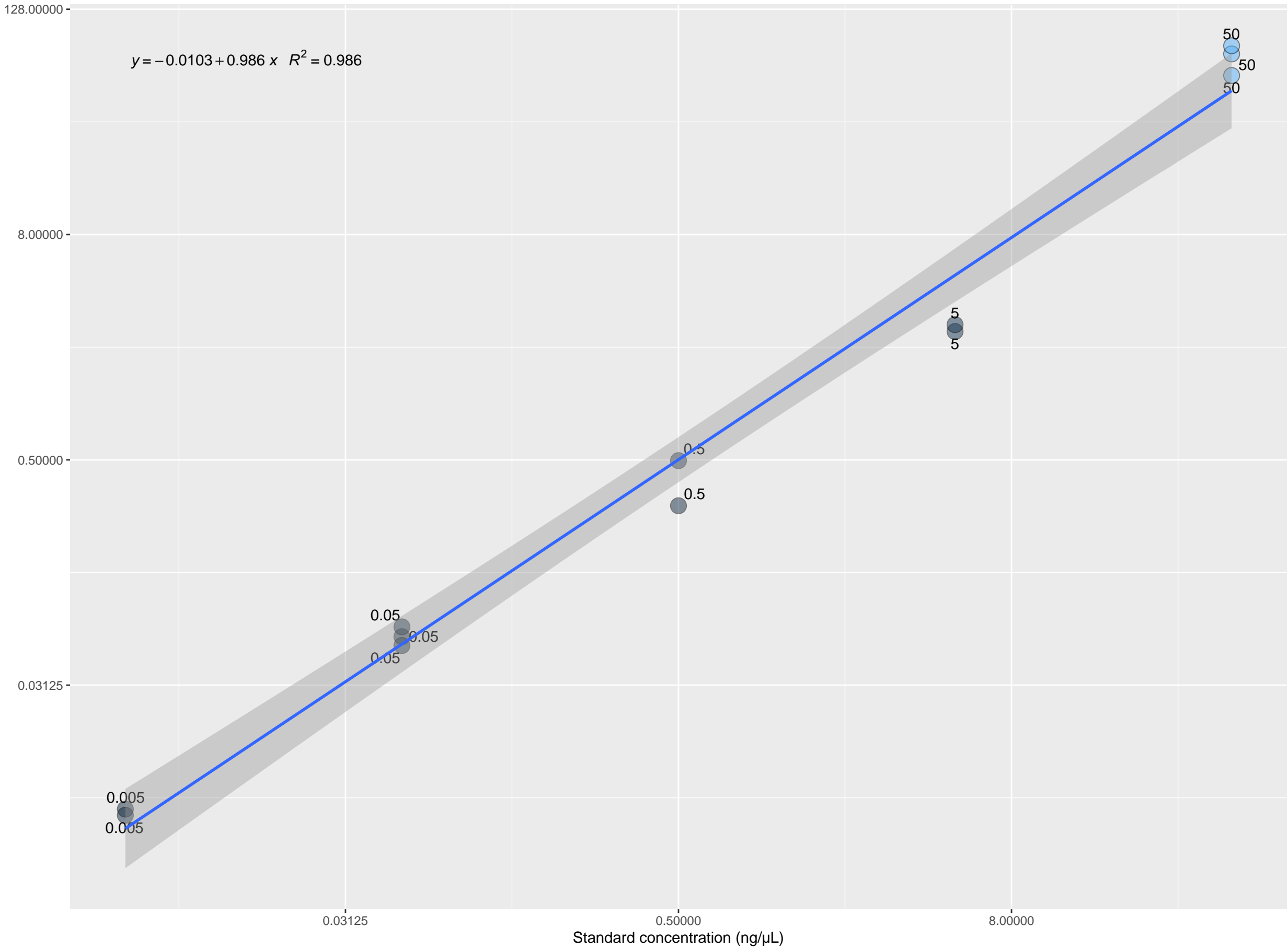
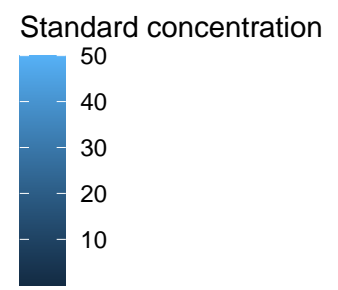


Large

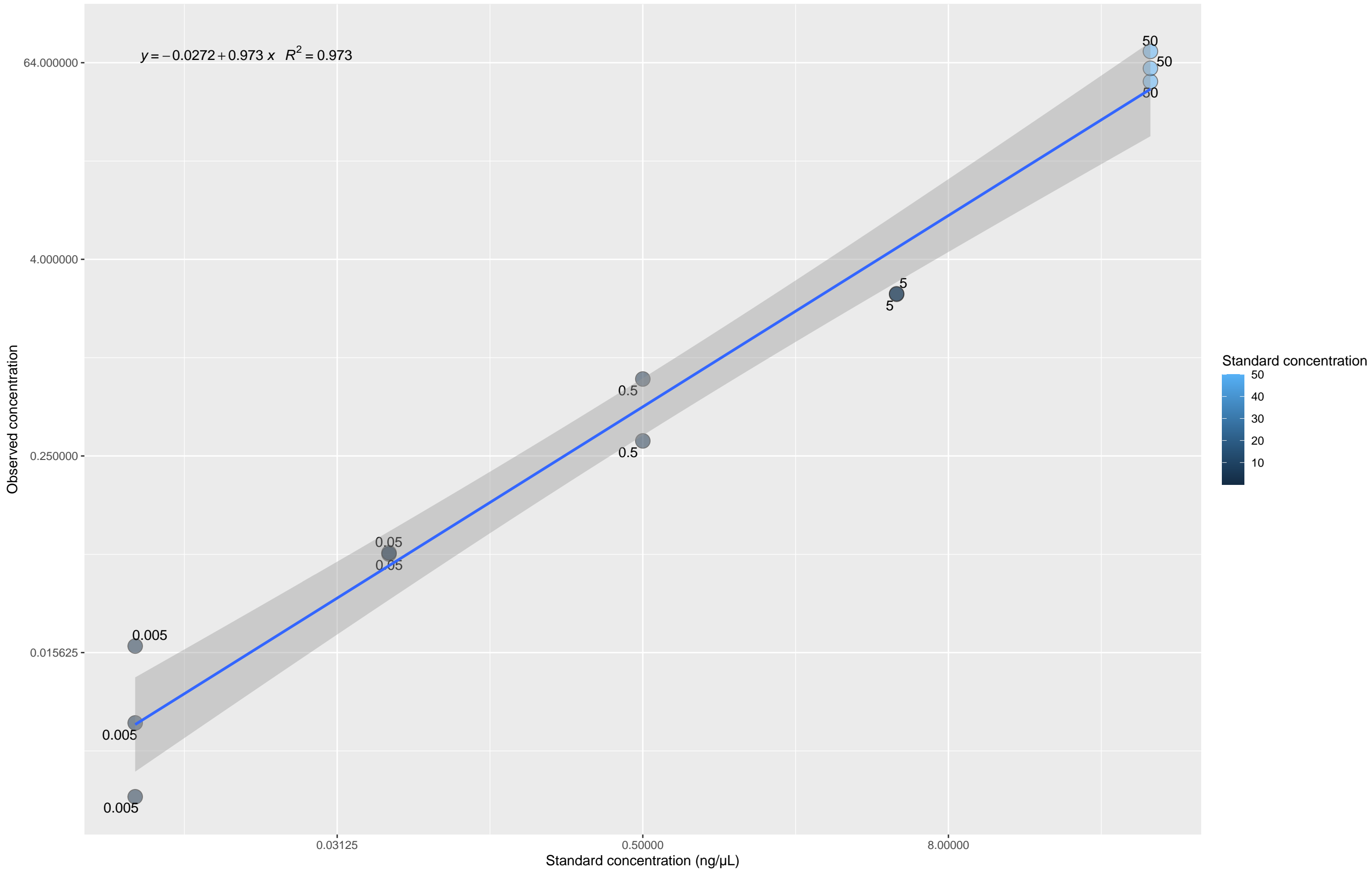
Predictive model: $\log [y \sim \log(x)]$

$y = -0.0103 + 0.986 x \quad R^2 = 0.986$

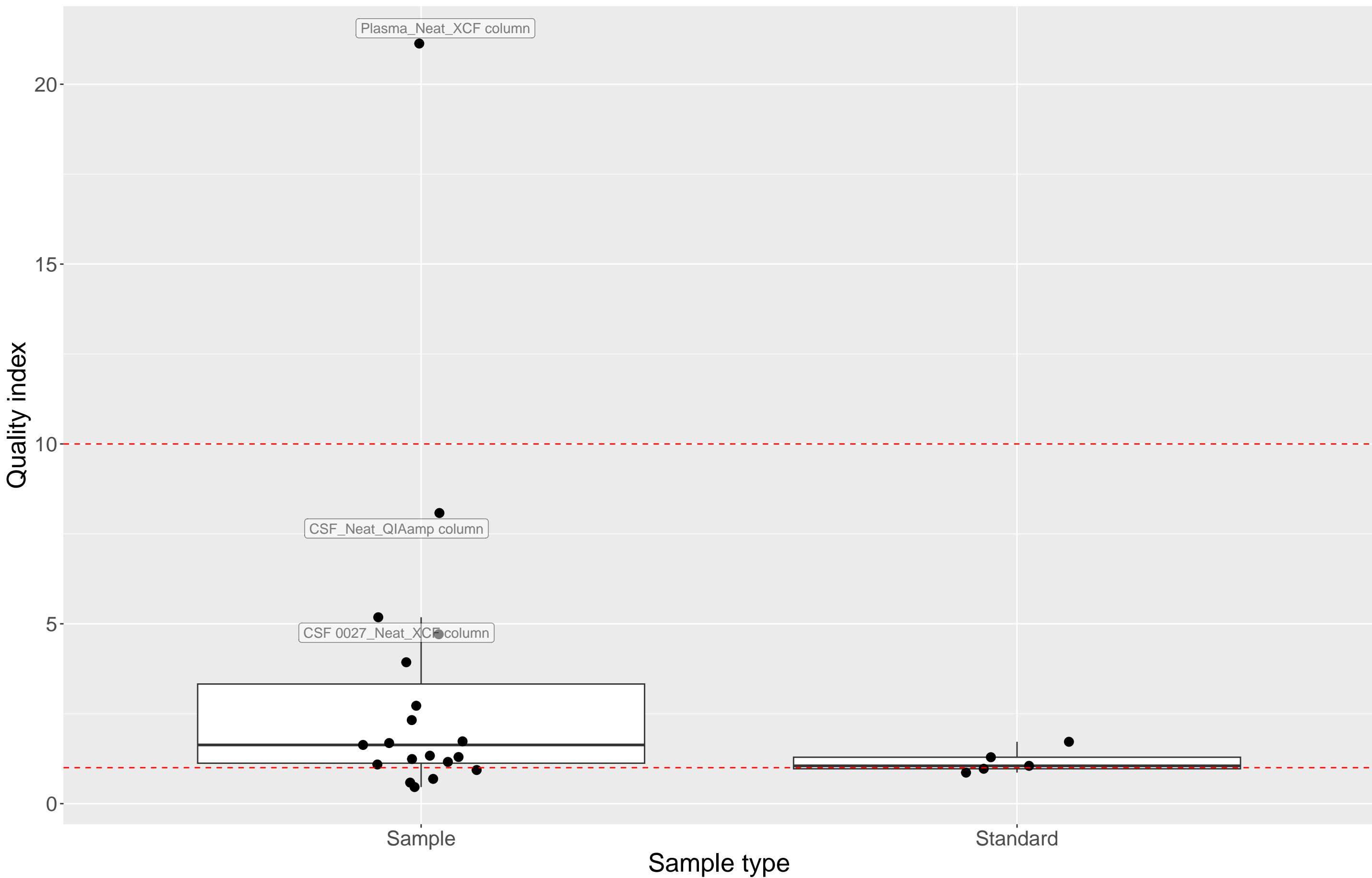
Observed concentration

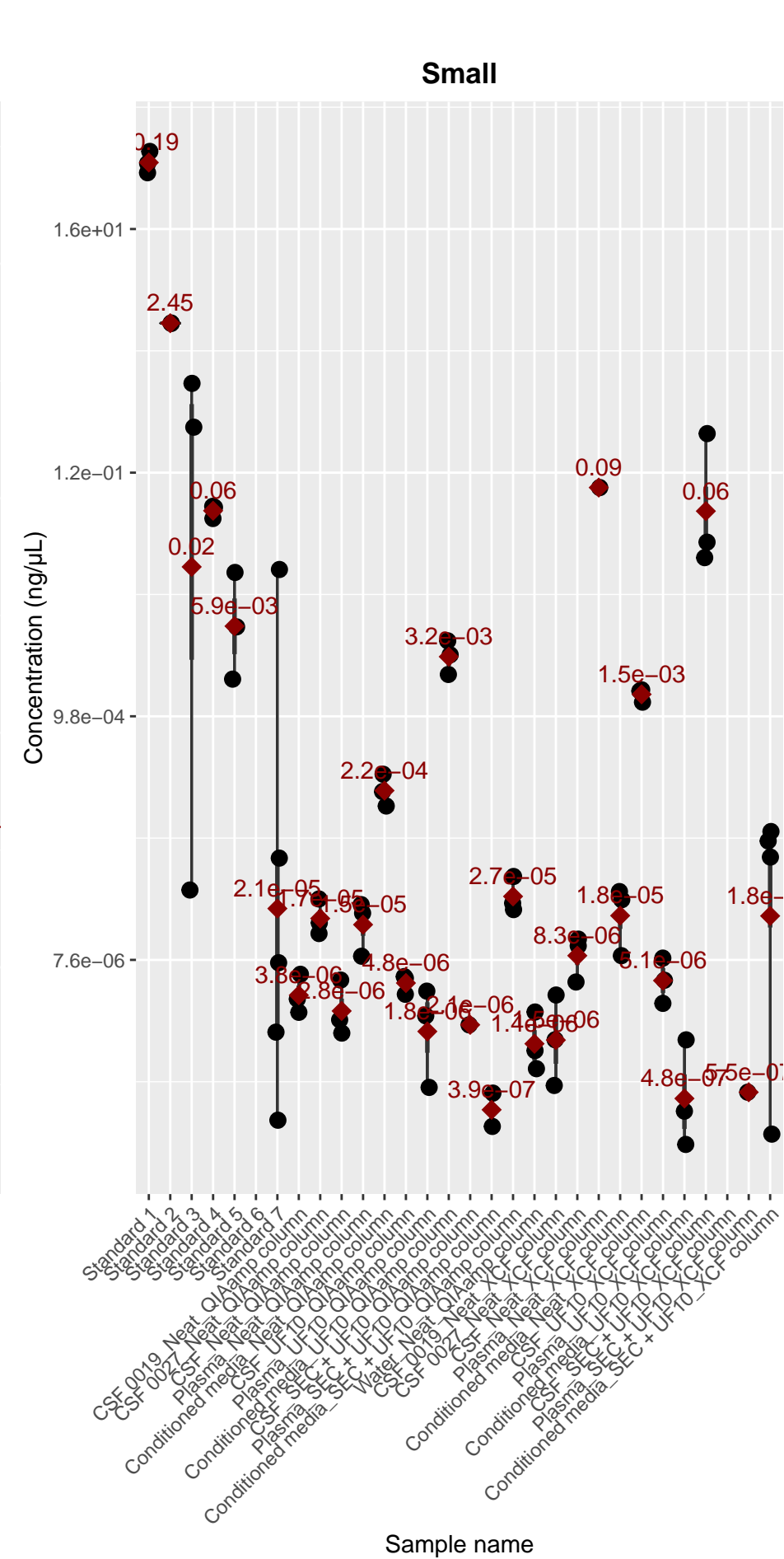
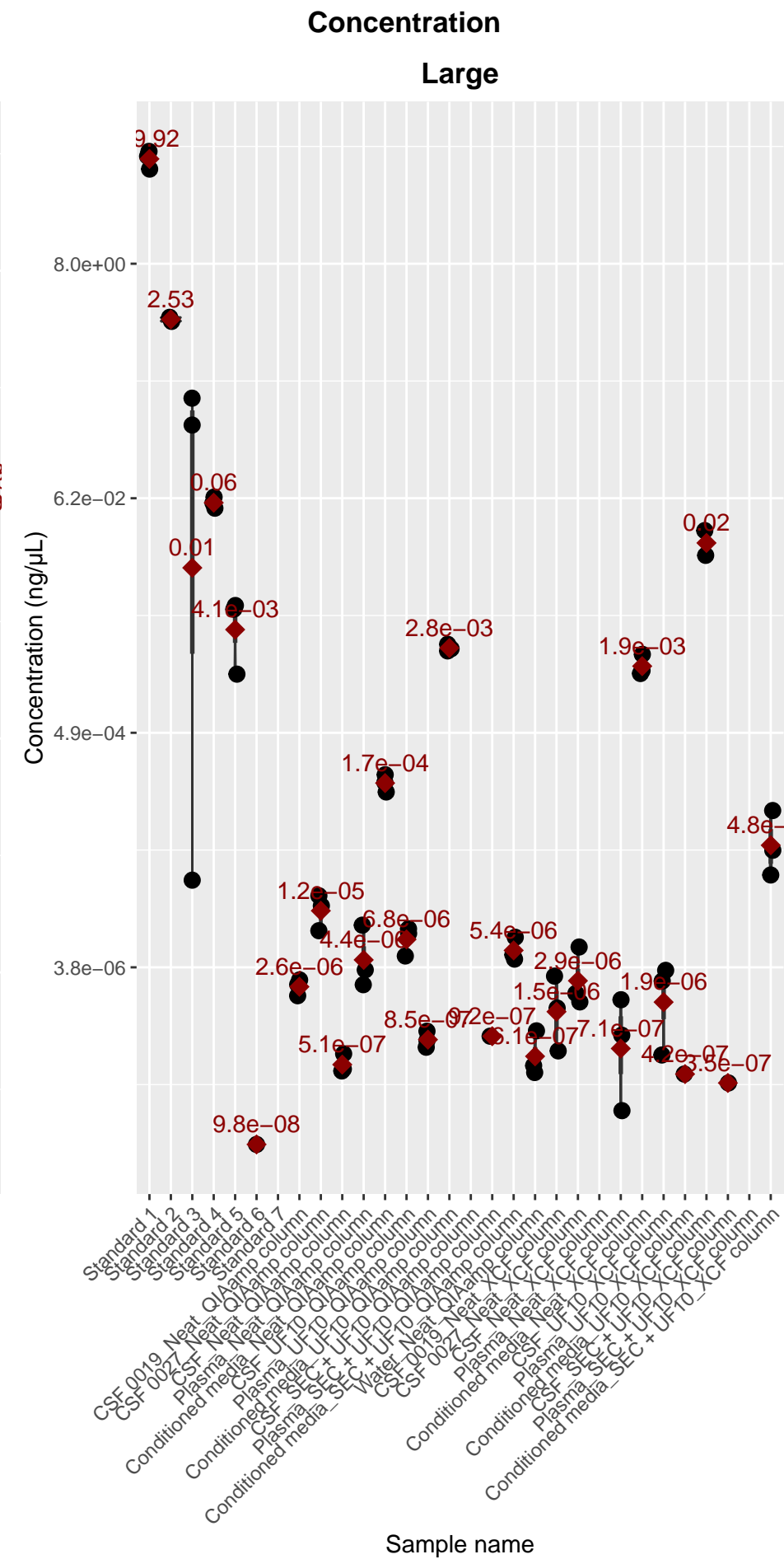
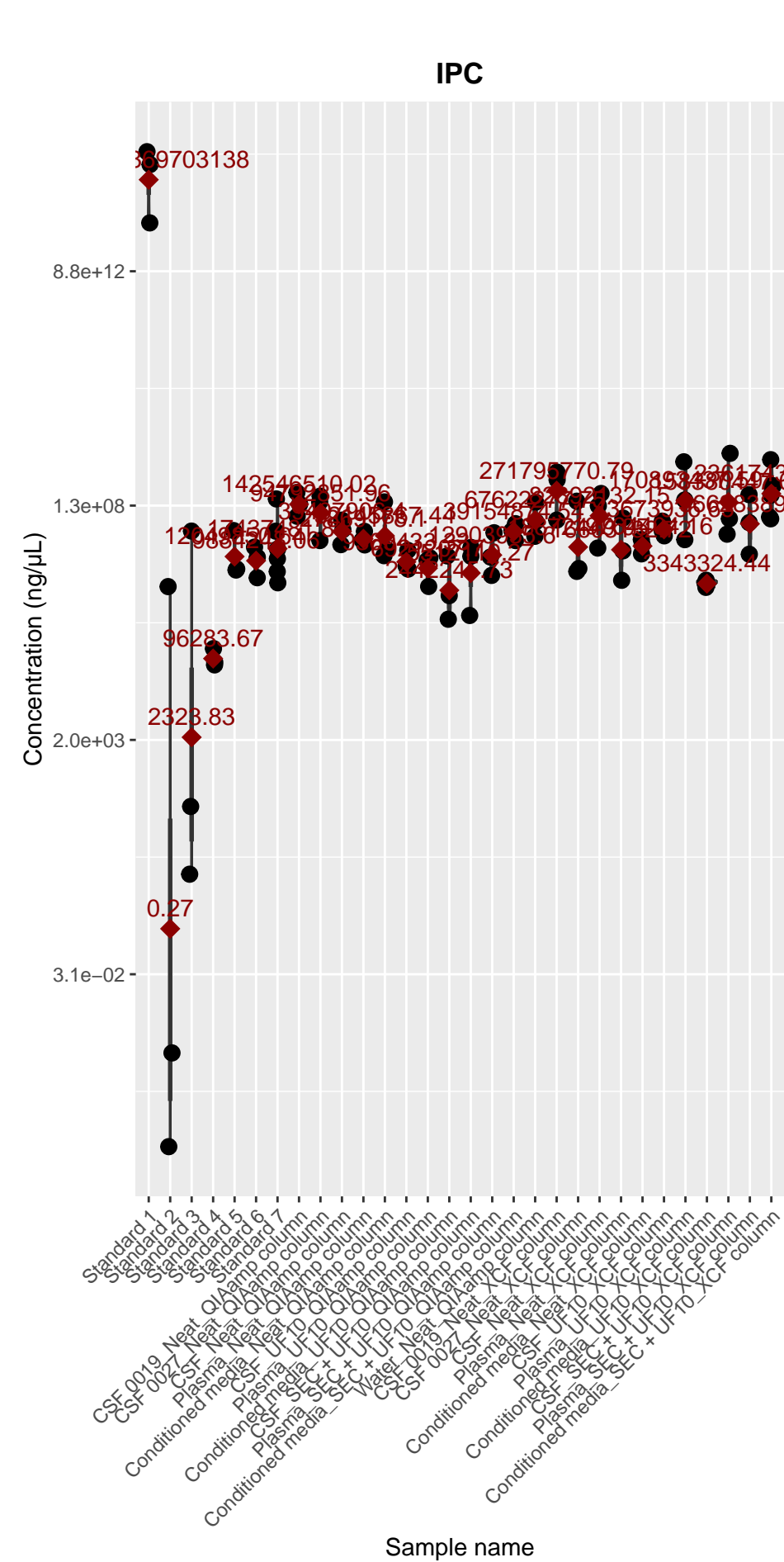


Small
Predictive model: $\log [y \sim \log(x)]$

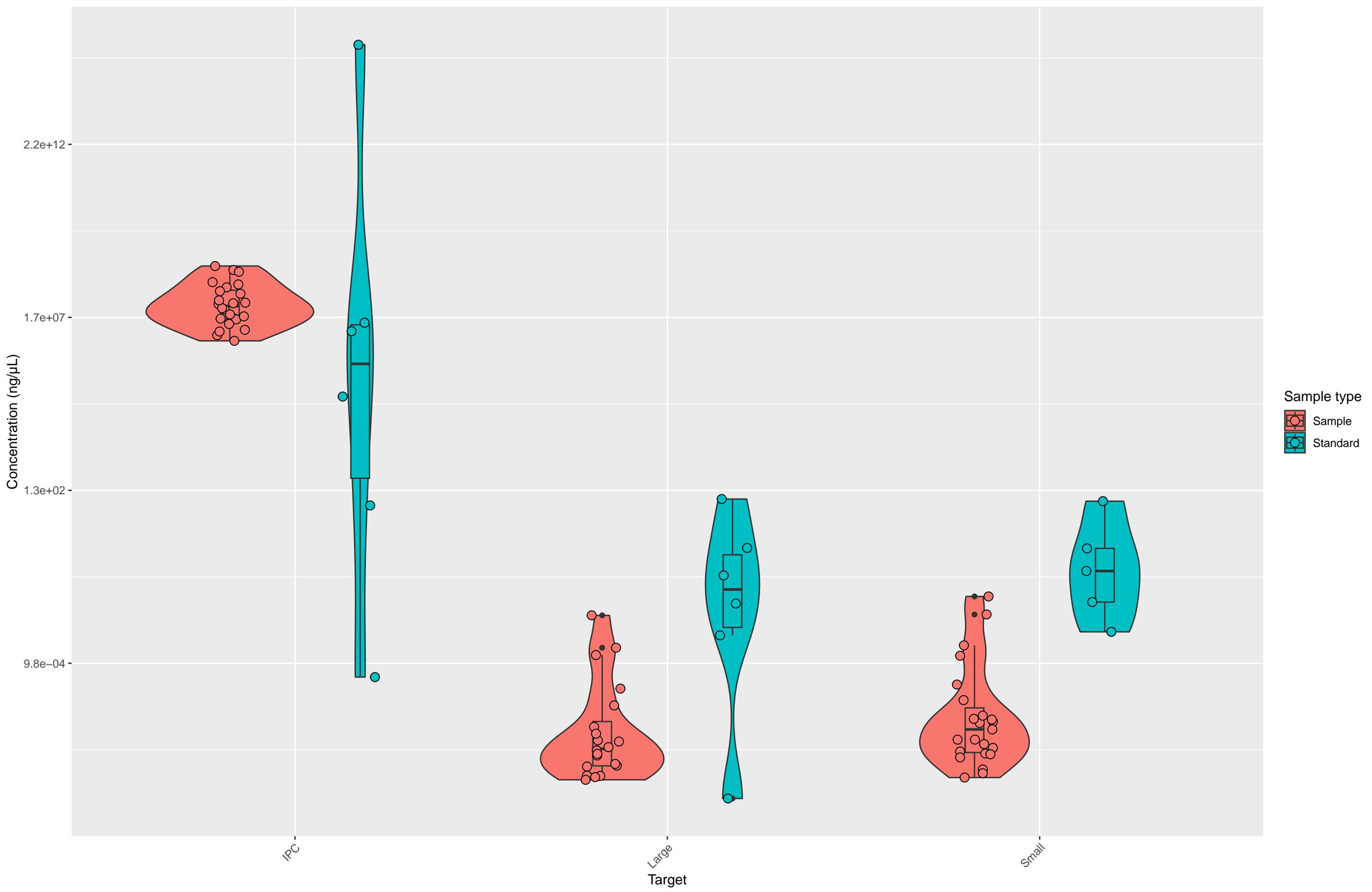


Quality index

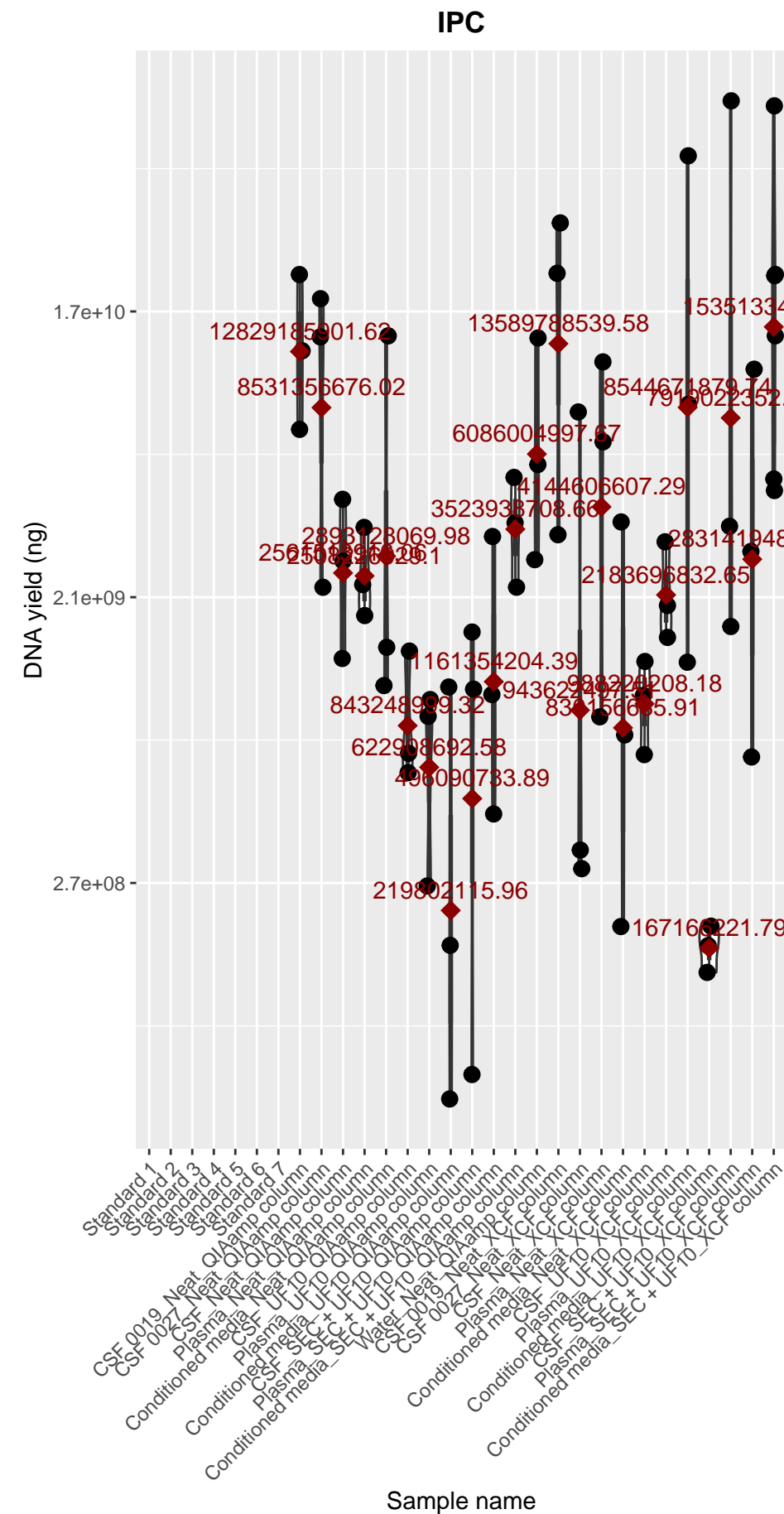




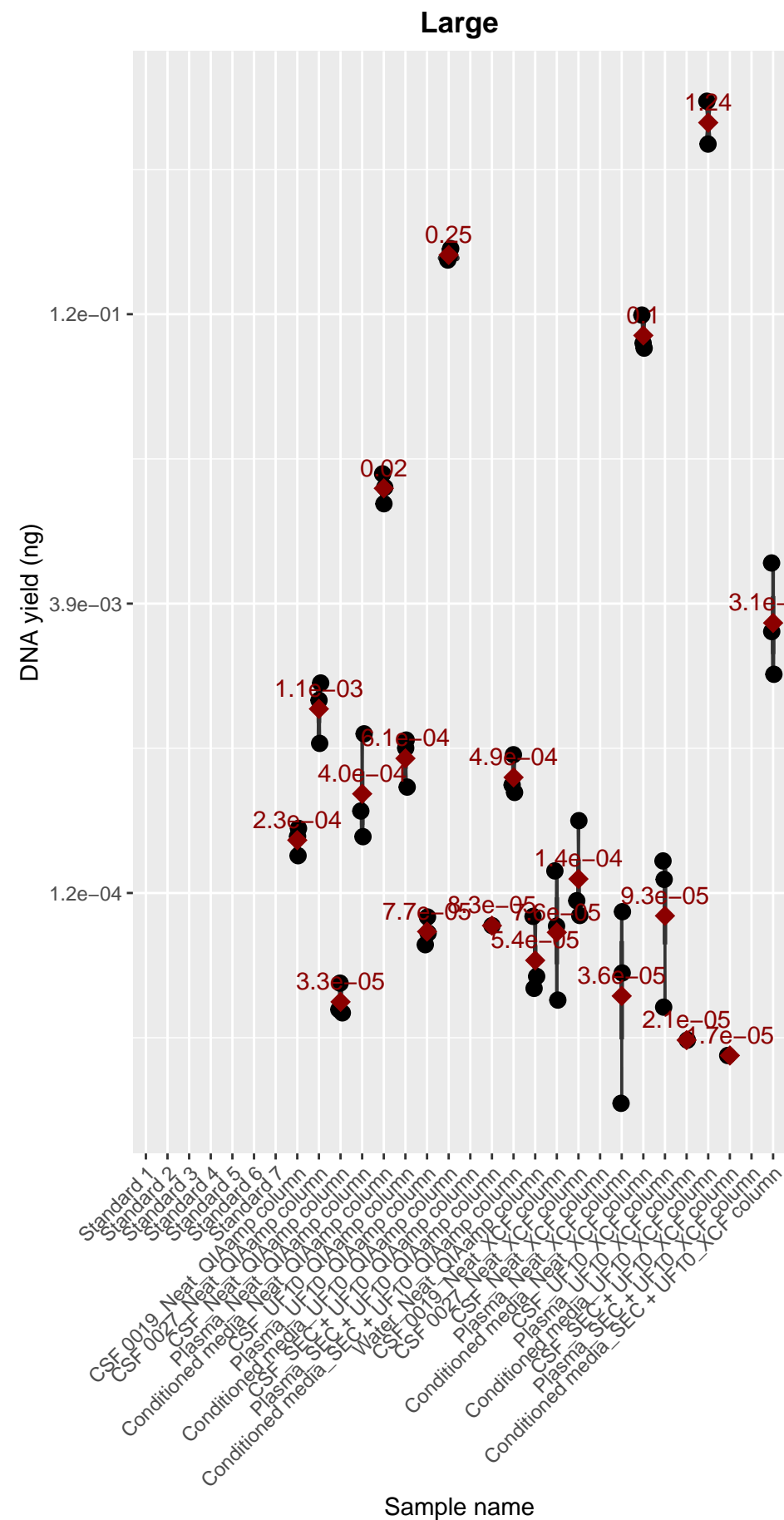
Concentration



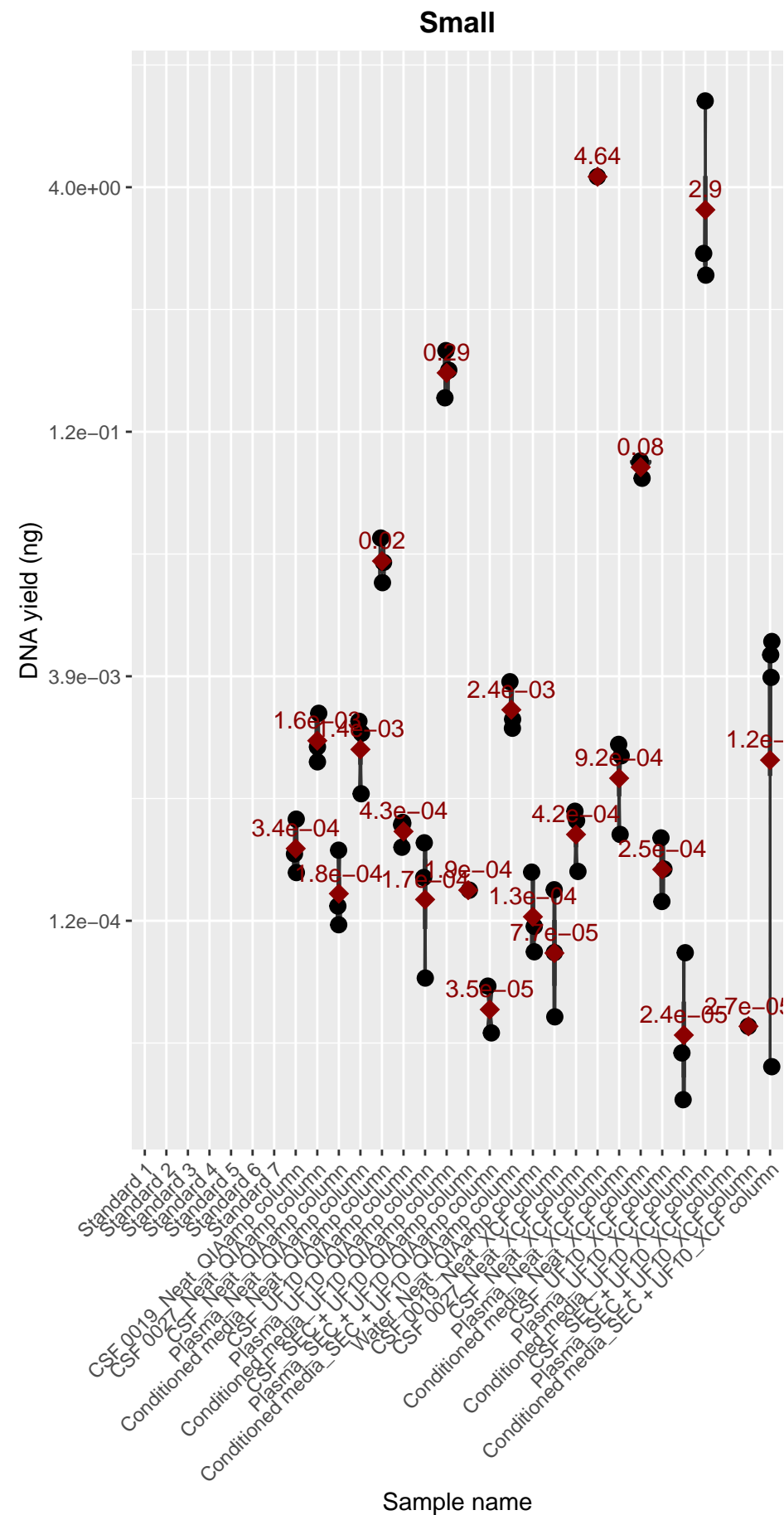
DNA yield



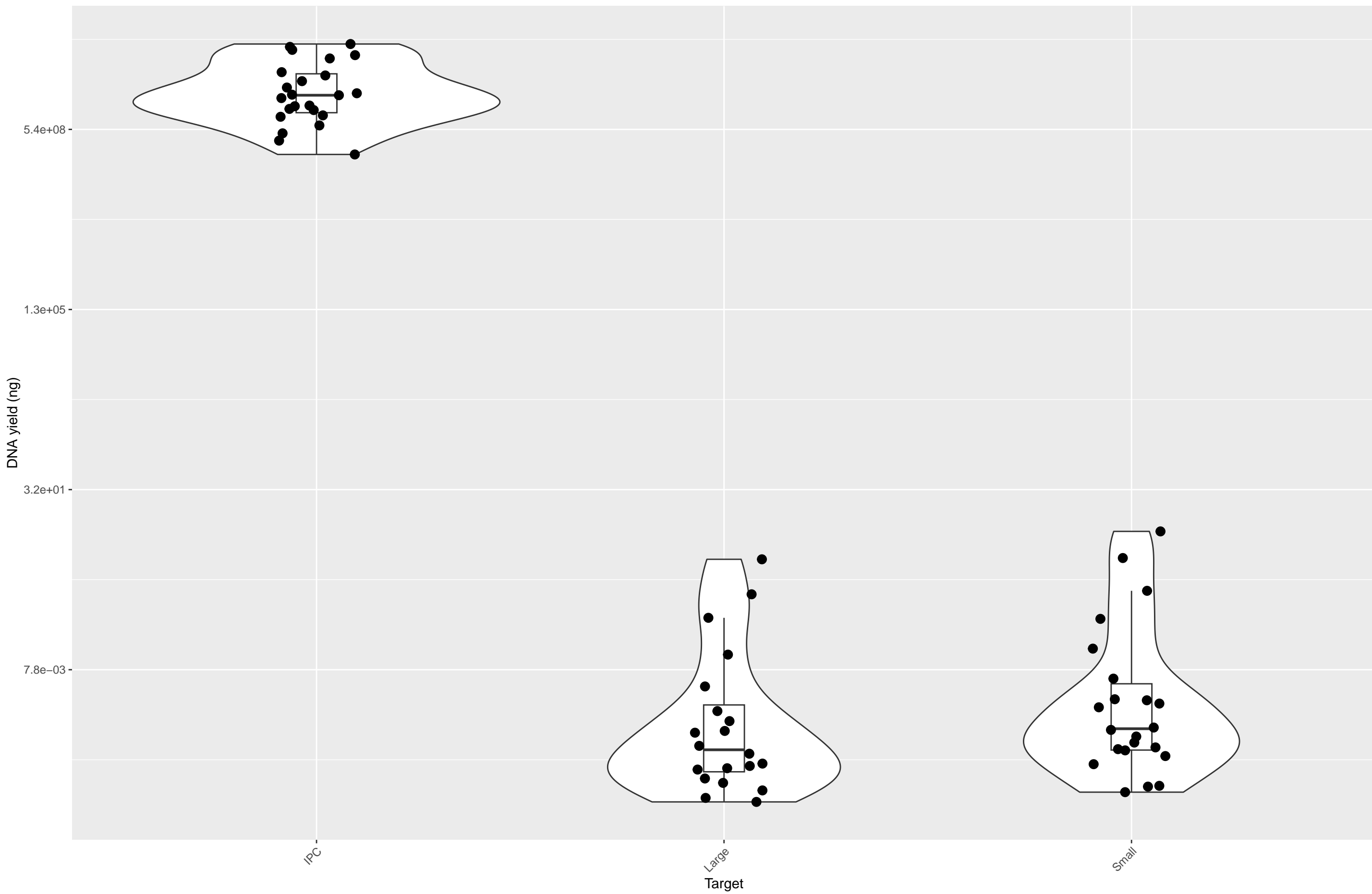
Large



Small



DNA yield

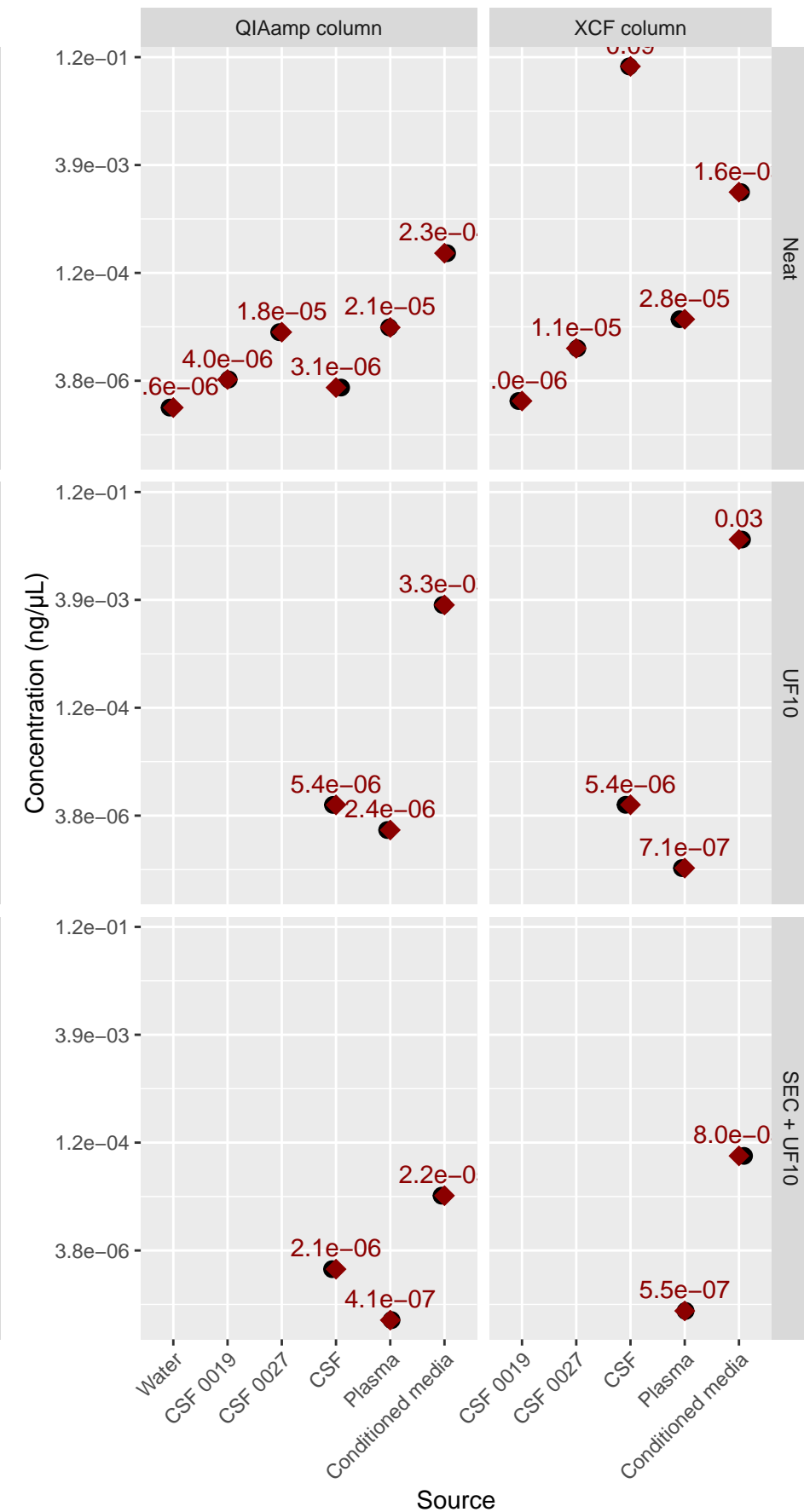
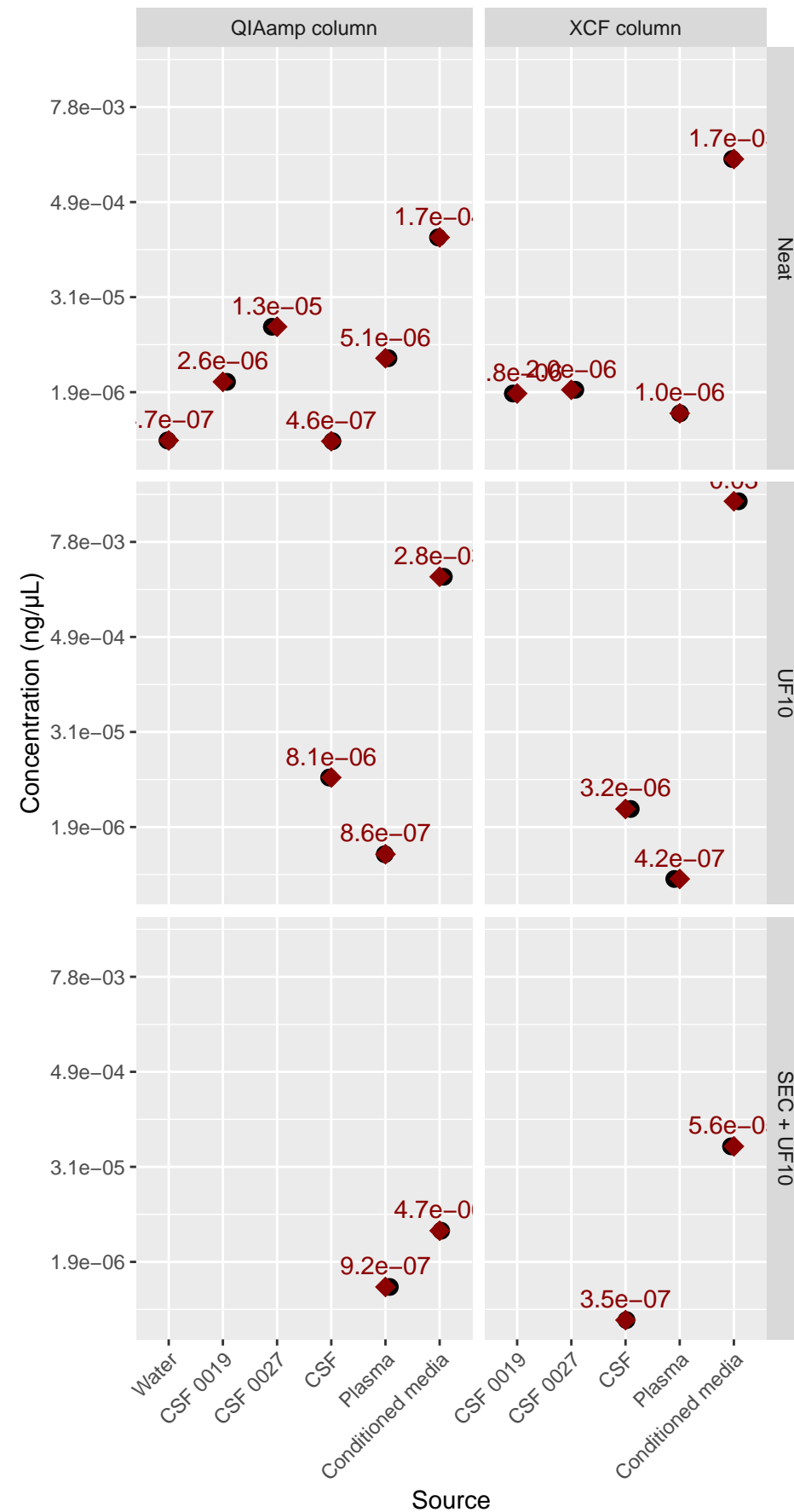
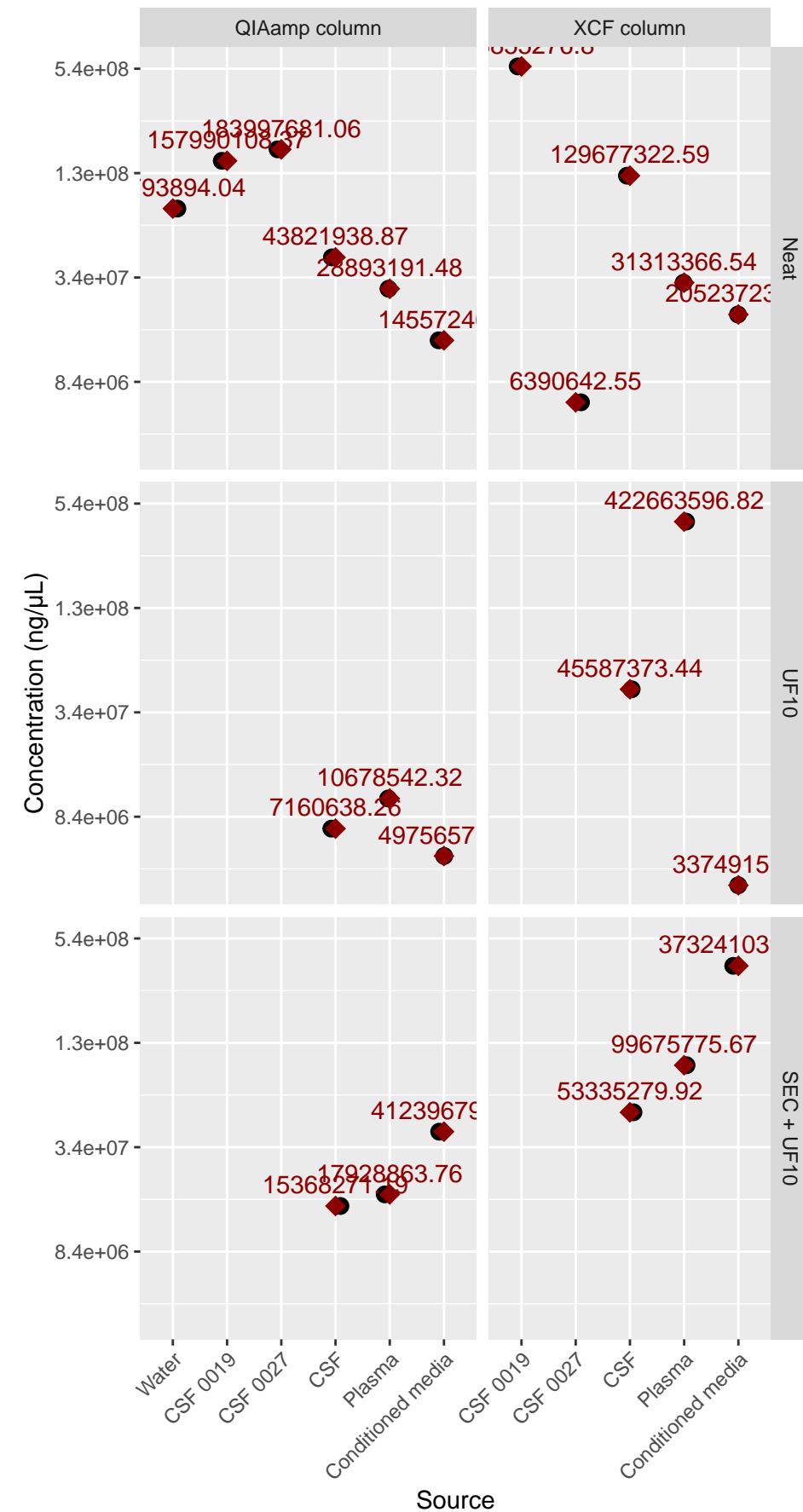


Concentration (ng/μL)

IPC

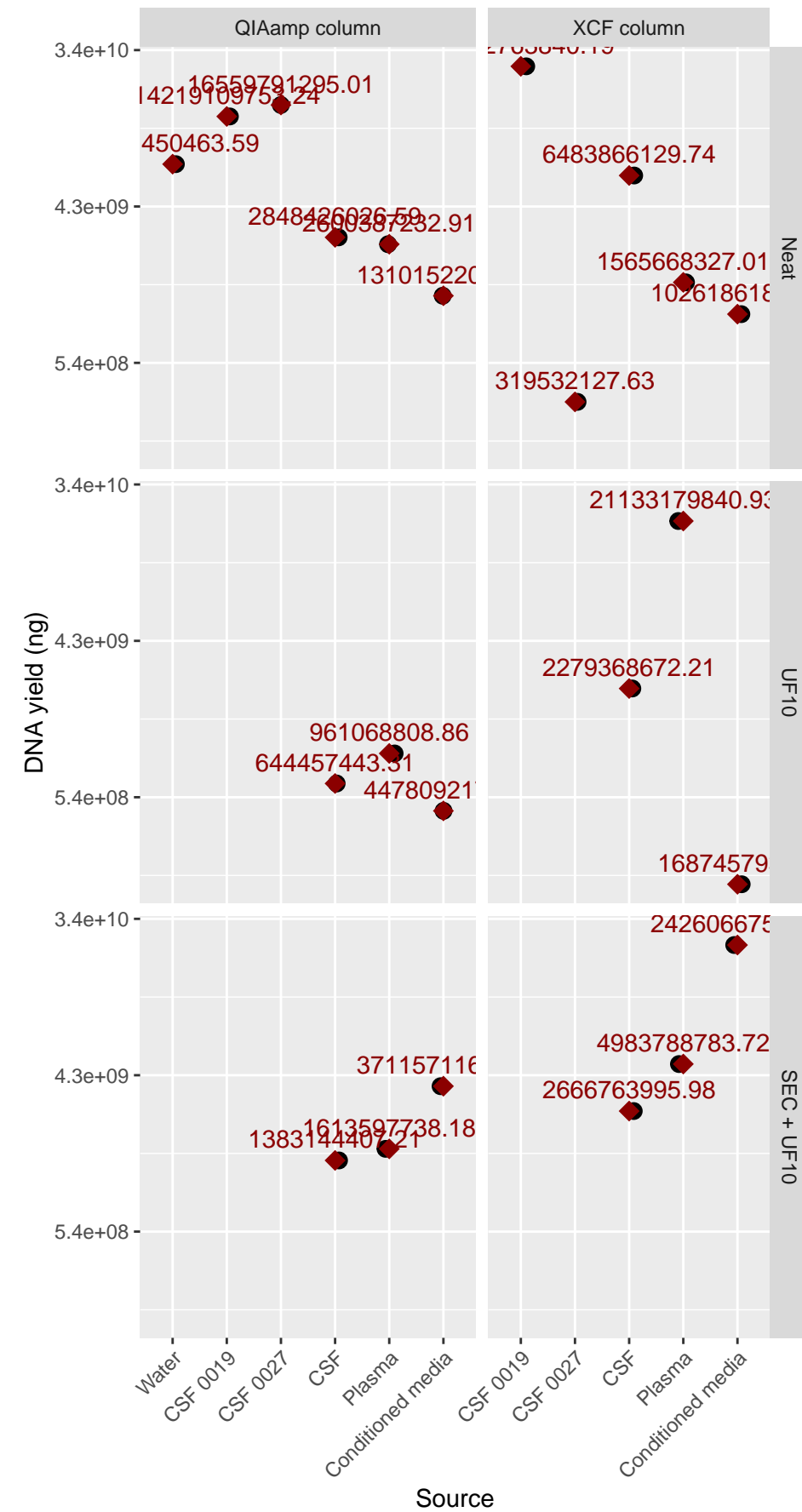
Large

Small

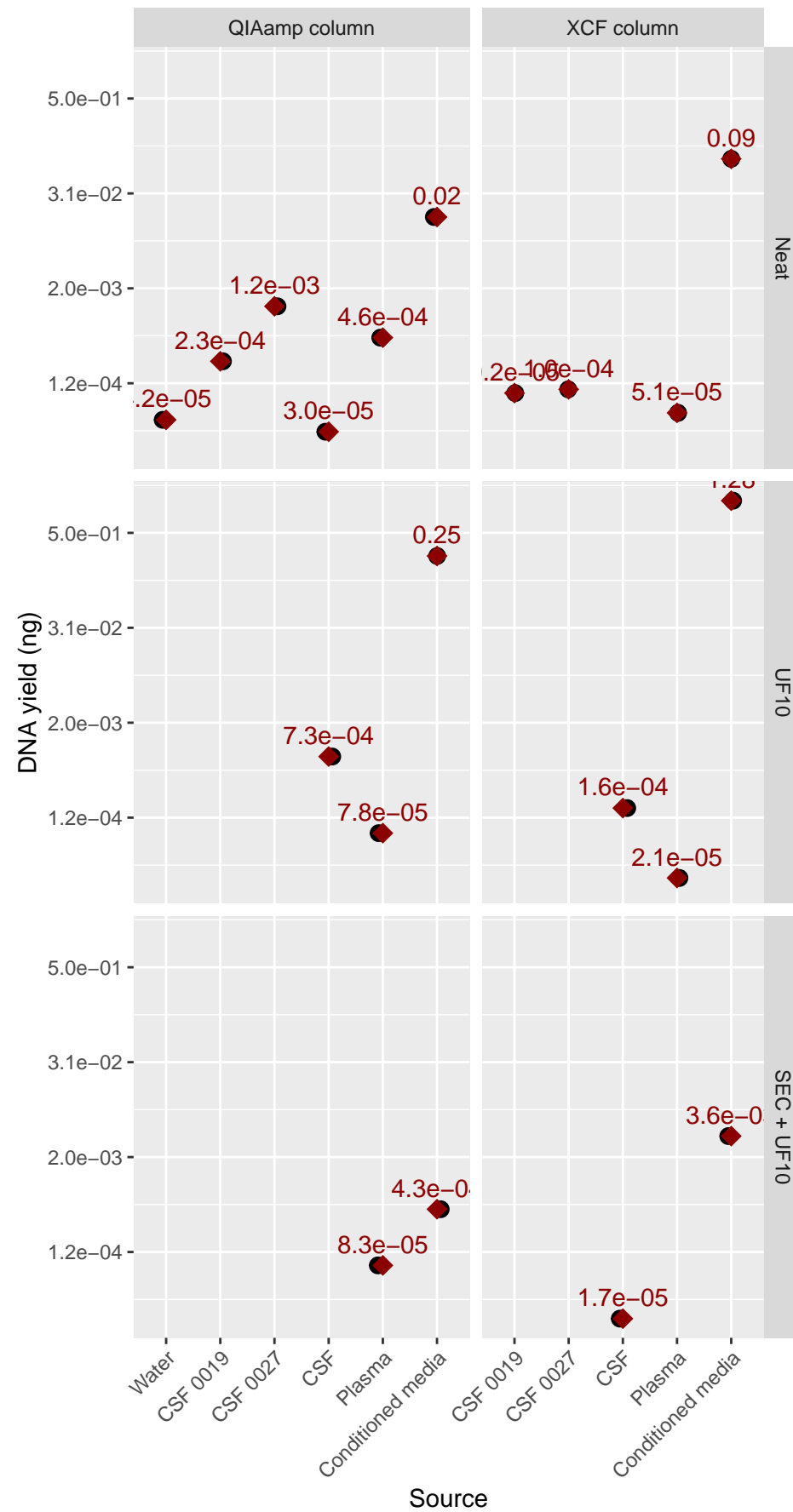


DNA yield (ng)

IPC



Large



Small

