

3.2.4 Linearity

Summary of all R², slope and intercept data of the six calibration curves are shown in **table 3.35**.

Table 3.35 Summary of all R², slope and intercept data of the six calibration curves.

Calibration Curve	R squared	Slope	Intercept
1	0.999740	0.000321	-0.008211
2	0.999573	0.000320	-0.007532
3	0.999343	0.000321	-0.007127
4	0.998461	0.000323	-0.007974
5	0.999725	0.000331	-0.009446
6	0.999740	0.000324	-0.008066
Mean	0.999430	0.000323	-0.008059
STD	0.000499	0.000004	0.000788
CV%	0.049952	1.308656	

Intra-day validation

Calibration curve of the first, second, and third day of validation are shown in **tables 3.36, 3.37 and 3.38**, respectively representing an accuracy range of (89.65%-112.99%), (93.24%-109.98%) and (94.22%-106.75%), respectively.

Stability validation

Calibration curve of freeze-thaw test, bench-top test, and autosampler test of stability are shown in **tables 3.39, 3.40 and 3.41**, respectively representing an accuracy range of (91.23-105.67%), (85.82-113.81%) and (85.84%-114.27%), respectively.