Table 1. Method Validation. The intra- \((n = 5)\) and inter-day \((n = 3)\) values representing accuracy, precision, and bias associated with selected vitamin K1 quantification method (all values presented with three significant figures)

| Nominal Concentration | Day 1       | Day 2       | Day 3       | Inter-day  |
|-----------------------|-------------|-------------|-------------|------------|
|                       | Mean Concentration ± SD | Mean Concentration ± SD | Mean Concentration ± SD | Mean Concentration ± SD |
| 0.2 µg/mL              | 0.187 ± 0.0342 | 0.186 ± 0.0369 | 0.224 ± 0.330  | 0.199 ± 0.0216  |
| CV%                   | 18.2        | 19.9        | 14.7        | 17.6        |
| MAE                   | 6.28        | 7.11        | 12.0        | 8.45        |
| ME                    | -6.28       | -7.11       | 12.0        | -0.475      |
| 0.5 µg/mL              | 0.471 ± 0.026  | 0.503 ± 0.00340 | 0.491 ± 0.00868 | 0.489 ± 0.0162 |
| CV%                   | 5.60        | 0.675       | 1.77        | 2.68        |
| MAE                   | 5.72        | 0.678       | 1.73        | 2.71        |
| ME                    | -5.72       | 0.678       | -1.73       | -2.26       |
| 1 µg/mL                | 1.02 ± 0.0629 | 1.03 ± 0.0625 | 0.975 ± 0.0307 | 1.01 ± 0.0291 |
| CV%                   | 6.15        | 6.07        | 3.15        | 5.13        |
| MAE                   | 2.23        | 2.85        | 2.46        | 2.52        |
| ME                    | 2.23        | 2.85        | -2.46       | 0.874       |
| 2 µg/mL                | 2.12 ± 0.0806 | 2.13 ± 0.0547 | 1.97 ± 0.0483 | 2.07 ± 0.0913 |
| CV%                   | 3.81        | 2.56        | 2.46        | 2.94        |
| MAE                   | 5.76        | 6.56        | 1.72        | 4.68        |
| ME                    | 5.76        | 6.56        | -1.72       | 3.54        |
| 4 µg/mL                | 4.22 ± 0.104  | 4.17 ± 0.0333 | 3.98 ± 0.0465 | 4.12 ± 0.128 |
| CV%                   | 2.46        | 0.800       | 1.17        | 1.48        |
| MAE                   | 5.61        | 4.18        | 0.524       | 3.44        |
| ME                    | 5.61        | 4.18        | -0.524      | 3.09        |
| 6 µg/mL                | 5.83 ± 0.0709 | 5.78 ± 0.124 | 6.05 ± 0.0567 | 5.88 ± 0.142 |
| CV%                   | 1.22        | 2.15        | 0.937       | 1.43        |
| MAE                   | 2.80        | 3.74        | 0.754       | 2.43        |
| ME                    | -2.80       | -3.74       | 0.754       | -1.93       |
| 8 µg/mL                | 7.81 ± 0.136  | 8.05 ± 0.0886 | 7.85 ± 0.138  | 7.90 ± 0.127 |
| CV%                   | 1.74        | 1.10        | 1.76        | 1.53        |
| MAE                   | 2.40        | 0.575       | 1.88        | 1.62        |
| ME                    | -2.40       | 0.575       | -1.88       | -1.23       |
| 10 µg/mL               | 10.25 ± 0.154 | 10.21 ± 0.0445 | 9.98 ± 0.0621 | 10.15 ± 0.149 |
| CV%                   | 1.50        | 0.44        | 0.622       | 0.852       |
| MAE                   | 2.53        | 2.09        | 0.243       | 1.62        |
| ME                    | 2.53        | 2.09        | -0.243      | 1.46        |

*CV%*: Percentage coefficient of variation; *MAE*: Mean absolute error; *ME*: Mean Error; *SD*: Standard Deviation