**Table S-1:** RP-HPLC data for the calibration curve of Vancomycin at different concentration.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Amount (µg)** | **Sample name** | **Retention time (min)** | **Area** | **HT** | **Average Area** | **SD** |
| 40 | n=1 | 21.527 | 8674240 | 1148417 | 9,684217 | 80788.42 |
| 40 | n=2 | 22.171 | 11730578 | 1157877 |
| 40 | n=3 | 22.207 | 8647832 | 981964.4 |
| 30 | n=1 | 21.552 | 6653902 | 943198.6 | 7199368 | 24420.07 |
| 30 | n=2 | 22.166 | 7431158 | 886522.3 |
| 30 | n=3 | 22.16 | 7513045 | 898296.1 |
| 20 | n=1 | 21.61 | 4511462 | 689819.5 | 4804436 | 27795.15 |
| 20 | n=2 | 22.174 | 4653640 | 631256.3 |
| 20 | n=3 | 22.187 | 5248205 | 690610 |
| 10 | n=1 | 21.654 | 2262253 | 373649.7 | 2362983 | 5603.364 |
| 10 | n=2 | 22.193 | 2452802 | 373539.8 |
| 10 | n=3 | 22.212 | 2373895 | 361708.6 |
| 8 | n=1 | 21.658 | 1705924 | 289824.4 | 1715090 | 8273.075 |
| 8 | n=2 | 22.192 | 1732701 | 275002.4 |
| 8 | n=3 | 22.192 | 1706645 | 270445.6 |
| 6 | n=1 | 21.667 | 1367523 | 235920.7 | 1303849 | 14345.64 |
| 6 | n=2 | 22.242 | 1266877 | 204687.2 |
| 6 | n=3 | 22.21 | 1277148 | 206359.8 |
| 4 | n=1 | 21.673 | 862103.9 | 151153.2 | 841566.4 | 6695.267 |
| 4 | n=2 | 22.276 | 828437.3 | 136943.2 |
| 4 | n=3 | 22.283 | 834158 | 136957.6 |
| 2 | n=1 | 21.675 | 435876.8 | 76745.7 | 430976.8 | 2510.408 |
| 2 | n=2 | 22.291 | 432457.4 | 72129.1 |
| 2 | n=3 | 22.307 | 424596.1 | 70919.6 |
| 1 | n=1 | 21.661 | 217438.6 | 39204.7 | 226032.6 | 668.2148 |
| 1 | n=2 | 22.259 | 233807 | 39143.3 |
| 1 | n=3 | 22.285 | 226852.3 | 37757.5 |
| 0.5 | n=1 | 21.657 | 87147.3 | 15622.3 | 92649.5 | 1089.713 |
| 0.5 | n=2 | 22.219 | 87615.2 | 14686 |
| 0.5 | n=3 | 22.243 | 103186 | 17318.9 |
| 0.1 | n=1 | 21.594 | 20091.5 | 3736.4 | 21818.57 | 147.5781 |
| 0.1 | n=2 | 22.246 | 23656.5 | 4011 |
| 0.1 | n=3 | 22.234 | 21707.7 | 3670.1 |