Table 1 DNA spike recovery in process-intermediate samples.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Result (pg/ml) | Average Result (pg/ml) | Spike (pg) | Average Spike | CT | CV% | Spike Recovery | Reported Results (pg/mg) |
| Protein A Pool（7.58 mg/ml, a\*） | 5.61E+04 | 5.71E+04 | 2514 | 2511.7 | 20.2  ±  0.032 | 0.158 | 83.7% | 7.53E+03 |
| 5.68E+04 | 2212 |
| 5.83E+04 | 2809 |
| Cation Exchange (6.86 mg/ml, b\*) | 2.23E+04 | 2.35E+04 | 2832 | 2808.7 | 21.6  ±  0.073 | 0.338 | 93.7% | 3.43E+03 |
| 2.37E+04 | 2690 |
| 2.48E+04 | 2904 |
| Cation Exchange-Cleaning (6.24 mg/ml, c\*) | 2.02E+05 | 2.02E+05 | 252 | 340.3 | 18.22  ±  0.023 | 0.126 | 113.3% | 3.24E+04 |
| 1.99E+05 | 485 |
| 2.05E+05 | 284 |
| Anion Exchange-Elution (18.76 mg/ml, d\*) | 2.32 | 3.05 | 19.5 | 20.7 | 35.71  ±  0.386 | 1.081 | 69.2% | 0.163 |
| 3.79 | 20.0 |
| 3.04 | 22.8 |
| Anion Exchange-Cleaning (6.39 mg/ml, c\*) | 5.60E+04 | 5.82E+04 | 3102 | 3716.3 | 19.13  ±  0.05 | 0.261 | 120% | 9.108E+03 |
| 5.95E+04 | 3339 |
| 5.92E+04 | 4708 |

\*a, b, c, d represents different buffers.