

Additional file 1. Protein sequence comparisons of the 7 BoNT serotypes.

Percent Identity

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
|--------------------|---|--------|--------|--------|--------|--------|--------|--------|---|
| Percent Difference | 1 | ██████ | 40.1 | 58.2 | 33.8 | 35.0 | 39.0 | 39.2 | CAA52275 /G strain 89 |
| | 2 | 110.9 | ██████ | 39.9 | 31.9 | 33.2 | 40.9 | 41.1 | ABD65472 /A Hall strain |
| | 3 | 60.3 | 111.8 | ██████ | 33.5 | 34.8 | 39.1 | 39.7 | BAE48264 /B Okra strain ¹ |
| | 4 | 138.4 | 148.8 | 140.2 | ██████ | 53.6 | 33.3 | 33.1 | P18640 /C Stockholm strain ² |
| | 5 | 132.4 | 141.7 | 133.4 | 70.7 | ██████ | 33.2 | 34.0 | P19321 /D strain 1873 |
| | 6 | 115.2 | 108.3 | 115.0 | 140.9 | 141.4 | ██████ | 65.1 | ABM73980 /E Alaska strain |
| | 7 | 114.5 | 107.6 | 112.6 | 141.9 | 137.4 | 46.8 | ██████ | ABS41202 /F Langeland strain |

¹Indicates the sequences that are the most similar

²Sequences that are the least similar to /G