**Table S1. Masses and identities of proteins and protein complexes from the outer membrane of *E. coli*.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subunit/Complex  OmpA:proOmpA+DnaK | Expected mass (Da) | Measured mass (Da) | Mass difference (Da) | Mass difference (%) |
| DnaK | 69,115 | 69,148±55 | 33 | 0.047 |
| OmpA | 35,172 |  |  |  |
| Pro OmpA | 37,201 |  |  |  |
| DnaK:proOmpA:OmpA (+ADP) | 141,948 | 141,797±31 | -151 | 0.10 |
| Subunit/Complex  Bam complex | Expected mass (Da) | Measured mass (Da) | Mass difference |  |
| BamA | 88,426\* |  |  |  |
| BamB | 40,643\*  40,663\* |  |  |  |
| BamC | 35,163\*  35,183\* |  |  |  |
| BamD | 26,583\*  26,603 \* |  |  |  |
| BamE | 12,383\*  11,268 (-tag)  12,413\*  11,298 (-tag) |  |  |  |
| BamABCDE+CDL | 203,218\*-Light  202,103 (-tag)  203,288\*-Heavy  202,179 (-tag) | 203,848±19 (1492 cdl) | 177 | 0.087 |
| BamABCDEE | 213,471 | 213,549±29 | 78 | 0.036 |

\*Expected mass based on measurements reported previously (*17*). Heavy and light represent the masses of subunits bound to fatty acids with different chain lengths.