**Table S2. Masses and identities of inner membrane proteins and protein complexes from *E. coli.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subunit/Complex  Mdt efflux pump | Expected mass | Measured mass | Mass difference (Da) | Mass difference (%) |
| MdtA | 42,178 |  |  |  |
| MdtB | 112,078 |  |  |  |
| MdtC | 111,010 |  |  |  |
| TolC | 51,454 |  |  |  |
| 3xMdtA 2xMdtB 2xTolC | 453,598 | 453,646±7 | 48 | 0.01 |
| Subunit/Complex  Acr efflux pump | Expected mass | Measured mass | Mass difference (Da) | Mass difference (%) |
| AcrA | 113,574 |  |  |  |
| AcrB | 42,197 |  |  |  |
| TolC (outer membrane) | 51,454 |  |  |  |
| AcrZ | 5,300 |  |  |  |
| 2xAcrZ 1xAcrA 1xTolC 3xAcrB | 444,973 | 444,922±6 | 51 | 0.011 |
| Subunit/Complex  TonB complex | Expected mass | Measured mass | Mass difference |  |
| ExbA (TonB) | 26,094 |  |  |  |
| ExbB | 26,287 |  |  |  |
| ExbD | 15,227 |  |  |  |
| 5xExbB 1xExbD | 146,662 | 146,333±28 | 329 | 0.2 |
| Subunit/Complex  ATP-synthase/SecYEG | Expected mass | Measured mass | Mass difference |  |
| α | 55,222 |  |  |  |
| β | 50,325 |  |  |  |
| γ | 31,577 |  |  |  |
| δ | 19,332 |  |  |  |
| ε | 15,068 |  |  |  |
| a | 30,303 |  |  |  |
| b | 17,264 |  |  |  |
| c | 8,256  N-Formylated- 8,284 |  |  |  |
| SecY | 48,512 |  |  |  |
| SecE | 13,643 | 13,652 | 9 | 0.065 |
| SecG | 11,365 |  |  |  |
| ATP synthase holo-complex | 546,857 (12c-formyl) | 595-622kDa |  |  |
| Holocomplex+SecY | 595,369 | 595,620±37 | 251 | 0.042 |
| Holocomplex+SecY+SecG +(2 ADP) | 607,588 | 607,759±48 | 171 | 0.028 |
| Holocomplex+SecYEG | 621,231 | 621,411±83 | 180 | 0.029 |
| Subunit/Complex  Cytochrome bd | Expected mass | Measured mass | Mass difference (Da) | Mass difference (%) |
| CydA | 58,205 |  |  |  |
| CydB | 42,423 |  |  |  |
| CydX | 4,042 |  |  |  |
| AppX | 3,597 |  |  |  |
| Heme B558 | 617 |  |  |  |
| Heme B595 | 617 |  |  |  |
| Heme d | 710 |  |  |  |
| Ubiquinol | 865 |  |  |  |
| Cytochrome bdx(+AppX) complex | 108,267 | 108383 ± 8 | 116 | 0.1 |
| Bdx+AptX+2N-formylmethionine | 108,621 | 108,633 ± 10 | 12 | 0.011 |
| Bdx+AptX+Heme d | 108,977 | 109,030 ± 4 | 53 | 0.048 |
| Bdx+AptX+Ubiquinol | 109,132 | 109,229 ± 5 | 97 | 0.088 |
| Subunit/Complex  Cytochrome *bo3* | Expected mass | Measured mass | Mass difference (Da) | Mass difference (%) |
| CyoA | 32,218 |  |  |  |
| CyoB | 74,368 |  |  |  |
| CyoC | 22,623 |  |  |  |
| CyoD | 12,029 |  |  |  |
| HemeO | 838.8 |  |  |  |
| Heme B | 616.487 |  |  |  |
| 2xCyoB 1xCyoC 1xCyoD 2xHemeO3 | 185,064 | 185,096±5 | 32 | 0.017 |
| 2xCyoB 1xCyoC 1xCyoD 2xHemeB 2xHemeO 1xCDL | 187,528 (1.4-1.6 CDL) | 188,103±4 | 575 | 0.311 |