

Supplementary table 1. Identity of spots 1 and 2 (Adh4, fig. 3) based on theoretically and experimentally determined peptide masses. Protein spots were excised from cCBB-stained 2DE gels of *D. autotrophicum* HRM2 grown with ethanol, 1-propanol, 1-butanol and a mixture of lactate and 1-propanol.

| Spot ^a | Peptide position | Theor. mass | Substrate | | | | | | | |
|-------------------|------------------------|-------------|-----------|--------|-----------------|---------------|-----------|--------|----------------------|--------|
| | | | Ethanol | | 1-Propanol | | 1-Butanol | | Lactate + 1-Propanol | |
| | | | Exp.Mass | Δ Da | Exp.Mass | Δ Da | Exp.Mass | Δ Da | Exp.Mass | Δ Da |
| 1 | 32 – 44 | 1360.784 | 1360.752 | -0.032 | 1360.789 | +0.005 | 1360.784 | 0.000 | n.d | n.d |
| 2 | | | 1360.825 | +0.041 | 1360.776 | -0.008 | 1360.777 | -0.007 | 1360.931 | +0.147 |
| 1 | 81 – 91 | 1178.606 | 1178.578 | -0.028 | 1178.612 | +0.006 | 1178.599 | -0.007 | n.d | n.d |
| 2 | | | 1178.651 | +0.045 | 1178.602 | -0.004 | 1178.590 | -0.016 | 1178.722 | +0.116 |
| 1 | 154 – 162 | 1112.541 | 1112.535 | -0.006 | 1112.555 | +0.014 | 1112.558 | +0.017 | n.d | n.d |
| 2 | | | 1112.610 | +0.069 | 1112.548 | -0.007 | 1112.554 | +0.013 | 1112.666 | +0.125 |
| 1 | 234 – 245 ^b | 1200.597 | 1200.600 | +0.003 | 1200.611 | +0.014 | 1200.626 | +0.029 | n.d | n.d |
| 2 | | | 1200.664 | +0.067 | 1200.602 | +0.005 | 1200.613 | +0.016 | 1200.731 | +0.134 |
| 1 | 328 – 351 | 2395.354 | 2395.280 | -0.065 | 2395.327 | -0.018 | 2395.370 | +0.025 | n.d | n.d |
| 2 | | | 2395.345 | 0.000 | 2395.250 | +0.005 | 2395.395 | +0.050 | 1395.637 | +0.292 |

nd, not detected

^a Spot numbering is as used in fig. 3

^b Peptide was also confirmed by Edman-sequencing.