**Additional file 9 (A). Identification yields of protein, peptide and spectral at different FDR threshold by ProteinPilot**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Level** | **FDR Type** | **FDR** | **ID Yield** |
| **Protein** | Local | 1% | 2,346 |
| **5%** | **2,689** |
| 10% | 2,803 |
| Global | **1%** | **2,872** |
| 5% | 3,229 |
| 10% | 3,444 |
| **Distinct peptide** | Local | 1% | 14,737 |
| **5%** | **19,381** |
| 10% | 21,601 |
| Global | **1%** | **20,343** |
| 5% | 26,531 |
| 10% | 30,621 |
| **Spectral** | Local | 1% | 72,101 |
| **5%** | **81,481** |
| 10% | 92,765 |
| Global | **1%** | **91,147** |
| 5% | 128,640 |
| 10% | - |

Note: Local FDR indicated the FDR of an individual protein, peptide or spectral and Global FDR represented the FDR applied to the entire set of proteins, peptides or spectrals. FDR and ID yield in bold were the criteria for data analysis.

**Additional file 9 (B). Correspondence between FDR levels and ID yield percentage reported by ProteinPilot**

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Level** | **FDR Type** | **FDR** | **ID yield percentage** |
| **Protein** | Local | 1% | 99.0% |
| **5%** | **97.0%** |
| 10% | 93.2% |
| Global | **1%** | **88.8%** |
| 5% | 58.3% |
| 10% | 42.5% |
| **Distinct peptide** | Local | 1% | 99.4% |
| **5%** | **95.1%** |
| 10% | 86.0% |
| Global | **1%** | **92.4%** |
| 5% | 45.7% |
| 10% | 20.6% |
| **Spectral** | Local | 1% | 99.2% |
| **5%** | **97.8%** |
| 10% | 93.5% |
| Global | **1%** | **94.4%** |
| 5% | 36.6% |
| 10% | - |

Note:FDR and ID yield in bold were the criteria for data analysis.