

Supplemental Table 1 : Peptide Quantitation of Standard Mixtures by IsoQuant

Supplemental Table 2 : Protein Quantitation of Standard Mixtures by IsoQuant

Supplemental Table 3 : Peptide Quantitation of Standard Mixtures by Proteome Discoverer.

Supplemental Table 4 : Protein Quantitation of Standard Mixtures by Proteome Discoverer.

Supplemental Table 5. Comparison of peptide quantitation performance by IsoQuant and Proteome Discoverer using various known SILAC mixture standards.

Expected ratio	IsoQuant ratio	SD	Proteome Discoverer ratio	SD
1	0.98	0.01	0.98	0.01
2	1.97	0.05	1.96	0.12
5	5.36	0.12	5.20	0.06
10	11.96	0.44	10.91	0.18
25	26.26	0.06	24.87	0.47
50	53.19	3.20	40.19	0.39
100	82.53	4.57	58.09	3.57

Supplemental Table 6. Comparison of protein quantitation by IsoQuant and Proteome Discoverer using various known SILAC mixture standards.

Expected ratio	IsoQuant ratio	SD	Proteome Discoverer ratio	SD
1	0.96	0.04	0.96	0.02
2	1.93	0.11	1.97	0.06
5	5.24	0.09	5.18	0.05
10	11.06	0.53	10.45	0.15
25	24.64	0.77	23.93	0.74
50	47.95	1.51	38.64	1.70
100	68.97	3.77	51.96	3.00