

**EXAMPLE QUOTATION**  
**Phosphopeptide Enrichment of 9 Protein Samples**  
**Quotation No. Q20191126-2**  
**University of Minnesota Internal RATES**  
11/26/2019

**Estimates for 9 Samples Total**

Item Number	Analysis	Quantity	Unit	Unit Price*	Extended Price
1	Sample preparation	4	hours	\$68.75	\$275.00
2	Barocycler† (e.g., protein extraction from tissue), 2 vials each sample	18	each	\$13.20	\$237.60
3	Protein concentration (Bradford assay)	1	set	\$68.75	\$68.75
4	Trypsin digestion in solution	1	set	\$82.50	\$82.50
5	SPE (solid phase extraction) Oasis HLB desalting cartridge (Waters)	9	each	\$15.51	\$139.59
6	TiO2-column‡ (ThermoFisher) phosphoenrichment Step 1	9	each	\$18.57	\$167.13
7	Fe-NTA-column§ (ThermoFisher) phosphoenrichment Step 2	9	each	\$11.37	\$102.33
8	C18 Stage-Tip clean up for Fe-NTA samples	9	each	\$10.16	\$91.44
9	Sample preparation for enrichment procedure	4	hours	\$68.75	\$275.00
10	capillary LC-MS/MS Orbitrap Fusion for 9 x TiO2-enriched samples (includes blank gradient after each sample)	27	hours	\$65.00	\$1755.00
11	capillary LC-MS/MS Orbitrap Fusion for 9 x Fe-NTA-enriched samples (includes blank gradient after each sample)	27	hours	\$65.00	\$1755.00
12	Data analysis (Proteome Discoverer and Scaffold)	2	hours	\$68.75	\$137.50

**Total Cost      \$5086.84**

\* University of Minnesota Internal CURRENT rates; prices may change without notice, please contact CMSP for current rates

† <https://www.pressurebiosciences.com/>

‡ TiO2 column: <https://www.thermofisher.com/order/catalog/product/A32992>

§ Fe-NTA column: <https://www.thermofisher.com/order/catalog/product/A32993?SID=srch-hj-A32993>

**Phosphopeptide Enrichment Technique:**

Sequential enrichment from Metal Oxide Affinity Chromatography (SMOAC)

<https://assets.thermofisher.com/TFS-Assets/CMD/posters/PO-65032-SMOAC-Phosphoproteomics-Peptides-ASMS2017-PO65032-EN.pdf>