MeCAT labeling for absolute quantification of intact proteins using label-specific isotope dilution ICP-MS

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Supporting information

The present document provides further information on the paper mentioned above.

Contents:
- Figures S-1 to S-3
Figure S-1. Gel electrophoresis analysis of labeled and unlabeled standard HSA and Tf. The samples were loaded in the following order: Proteins labeled with MeCAT(Yb)-IA, unlabeled proteins and three replicates of MeCAT(Yb)-IA labeled proteins spiked with a known amount of the proteins labeled with isotopically-enriched MeCAT\(^{(171} \text{Yb})\)-IA.
Figure S-2. Comparison of the resolution achieved for spiked serum samples with gels containing 8 and 12% acrylamide. Single lane monitoring of isotopes $^{171}\text{Yb}$ and $^{172}\text{Yb}$ by LA-ICP-MS in the migration direction. Spot size 100 μm, scan rate 100 μm s$^{-1}$. 
Figure S-3. Coomassie Blue stained gel containing spiked serum and three different standard additions. Standard HSA and Tf labeled with MeCAT(Yb)-IA (ca. 0.5 µg per protein) were separated in the first lane to calibrate migration distances.