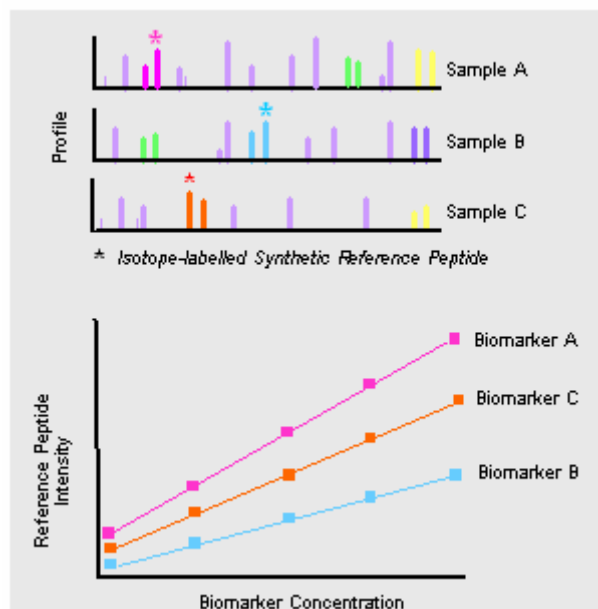


## Protein Quantitation and MRM Assay Services

Oxford Biomarker Services offers Multiple Reaction Monitoring (MRM) services to customers in order to quantitate or assay specific proteins in crude biological samples. This mass spectrometry-based technique is a very powerful way to verify and assay proteins in a high-throughput manner and does not require antibodies to the analyte of interest. It is also possible to multiplex MRM assays and monitor multiple analytes simultaneously (up to 50 different proteins can be quantitated per run). OBS is now offering our specialised services to either run or develop MRM assays. The process involves synthesizing stable isotope labelled peptides corresponding to a peptide from the protein of interest. The synthetic peptide can either be derived from the theoretical digest of a protein or using the assistance of our proprietary database DECIDER in order to select an optimal peptide based on sequence information. The DECIDER database is derived from the world's largest proprietary expressed protein database. The database enables us to select peptides that have been successfully sequenced before and this greatly increases the success of MRM assays. The technique is very quick, is sensitive and specific and it is also possible to monitor and quantify different protein isoforms as well post-translational modifications. Typically, it is possible to develop MRM assays in weeks rather than months/years as with antibody-based assays.



### Applications for MRM Assays

- Monitoring Pharmacodynamic Markers
- Monitoring surrogate biomarkers
- Monitoring markers of drug toxicity
- Developing novel Diagnostic assays
- Examining Post translational modifications and different protein isoforms
- Multi-marker biomarker assays
- Verifying and validating biomarkers
- Extending mRNA expression data to the protein level

**For further information on our services please contact:**

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