

## Fact Sheet for Mass Spectrometry Services

Viropro offers Mass spec services for MAb and other proteins. What follows is an outline of the services offered with examples and approximate (ball-park) prices. Final prices will depend on project specific details.

### Services offered:

- Protein sequencing:
  - Can easily be done from a template of know sequence or of homologous sequence;
  - Does not require prior purification for proteins expressed in protein free media;
  - Sample prep and purification can be done on our end if the protein is produced in a media with serum, peptones or other complex protein mixtures requiring prior purification.
  
- Post translational modification analysis:
  - N and O linked glycans
  - MABs: G0, G1, G2 sequences,
    - Glycan sequence determination,
  - Phosphorylation – sites and abundance,
  - Syalation, etc.

### Fees:

- A standard sequence verification (when a template or homologous sequence is available) can be performed for approx US 2000\$ per sequence for a MAb;
- Sequence determination (without template or homology) : approx US 3000\$;
- Glycan distribution and sequence analysis: from US 800\$;

### Speed of services:

Approximately 1 month from signature of service contract;

### Confidentiality of partner's data:

Viropro can give contractual guarantees of total confidentiality of all information transferred and obtained through partner company sequences. No other company will be made aware of service agreement between Viropro and your organization.

### References:

Saba J. et al., J Proteome Res. 2009 Jul;8(7):3355-66. Enhanced sensitivity in proteomics experiments using FAIMS coupled with a hybrid linear ion trap/Orbitrap mass spectrometer. [PMID: 19469569]



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Smith CA, et al., EMBO J. 2007 Jan 24; 26(2):468-80. aPKC-mediated phosphorylation regulates asymmetric membrane localization of the cell fate determinant Numb. [PMID: 17203073] Free article at Journal site [www.nature.com/emboj/journal/v26/n2/full/7601495a.html](http://www.nature.com/emboj/journal/v26/n2/full/7601495a.html)

Bonneil E, Waldron KC, Talanta. 2000 Dec 4;53(3):687-99. On-line system for peptide mapping by capillary electrophoresis at sub-micromolar concentrations. [PMID: 18968157]

### **About Viropro, Inc. (OTC BB- NASDAQ: VPRO):**

Viropro, Inc., which conducts operations through its subsidiary Viropro International Inc., specializes in the transfer of its technologies for industrial production of biogeneric therapeutic proteins for the treatment of various diseases including cancer, diabetes, hepatitis or multiple sclerosis. The company's principal objective is to develop and provide high-yield, robust manufacturing process technologies and biopharmaceutical products for technology transfer to bio/pharmaceutical companies for global markets. ([www.viropro.com](http://www.viropro.com))