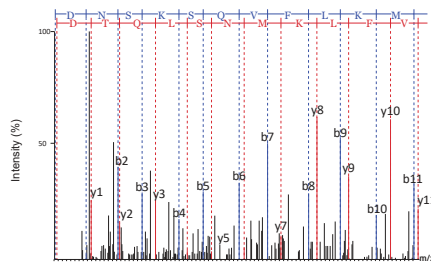
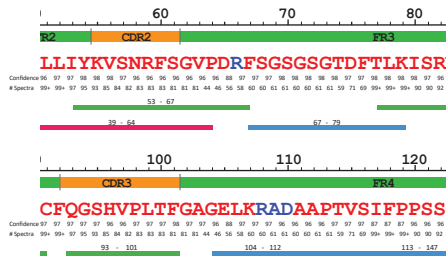
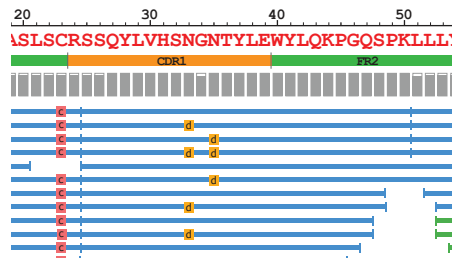


## Reporting

Once our team has completed and verified the antibody sequence, we provide a detailed, comprehensive report, which includes key information, such as:

- Constructed sequences and extensive peptide mapping
- Raw experimental LC-MS/MS data
- Sequence-level validation using Intact Mass Measurement
- Protein sequence confidence assessment
- Annotated supporting spectra
- Leucine and Isoleucine Differentiation
- And much more!



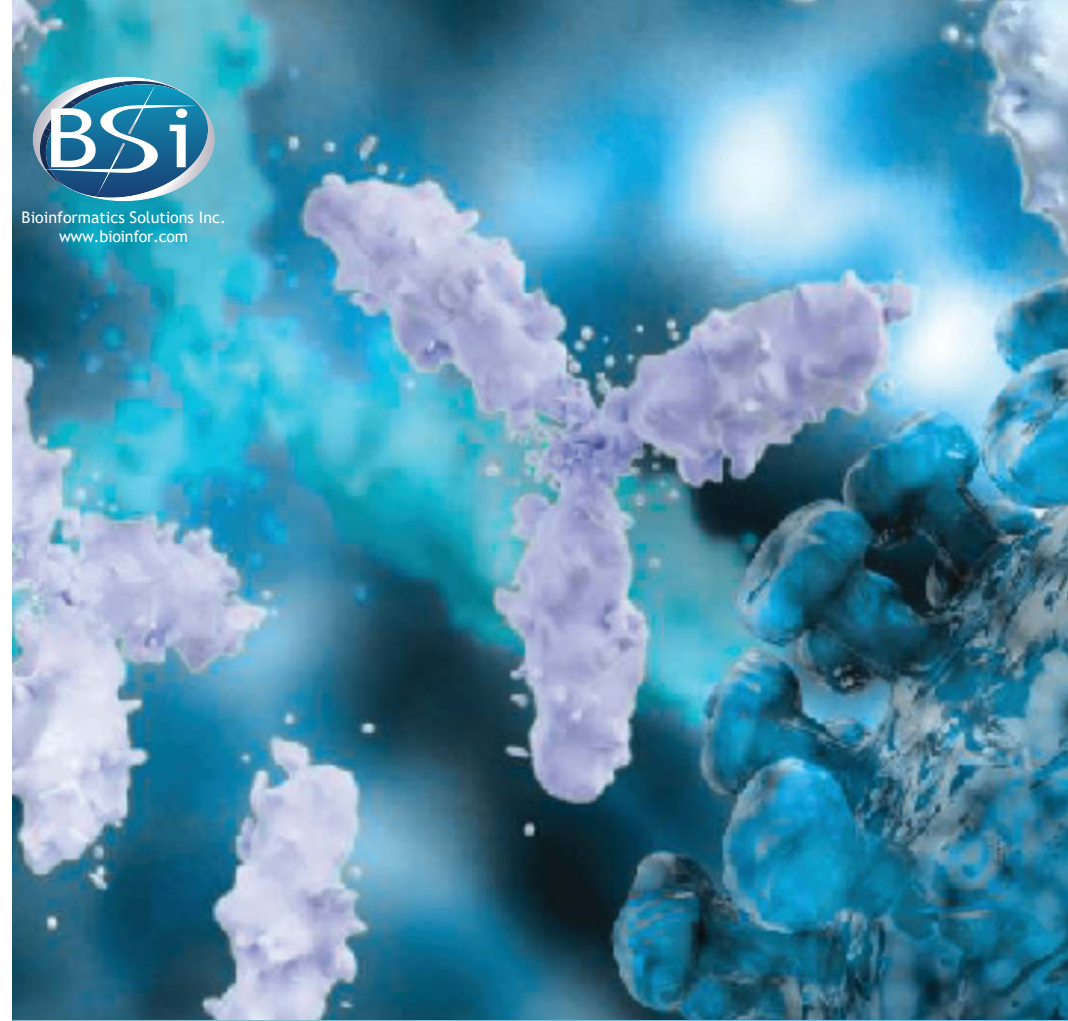
Leu/Ile Statistical Table

Position	% of I	% of L	# of Matches
I@3	36%	0%	0
L@9	0%	96%	27
L@11	0%	100%	10
L@15	8%	91%	13
I@21	100%	0%	3
I@29	43%	56%	0
L@38	1%	96%	20

The best part is? Our turnaround time is less than 2 weeks.  
Ask us about our First-Time Customer discount and Batch-Order Pricing!



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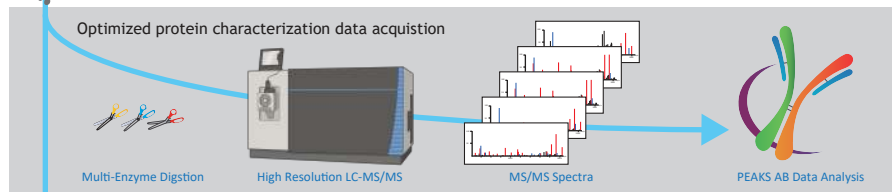


Information, descriptions, and specifications in this publication are subject to change without notice.  
Bioinformatics Solutions, Inc. 2024



PEAKS AB Service delivers accurate *de novo* sequencing of monoclonal antibody (mAb) proteins. Aside from the correct protein sequence, PEAKS AB also examines intact mass measurement for sequence validation, and quantification of post-translational modifications (PTMs)/sequence variants upon request. Our PEAKS AB Service guarantees 100% sequence coverage and 100% accuracy of the constructed protein sequences of heavy and light chains.

## Antibody Sequencing Using LC-MS/MS

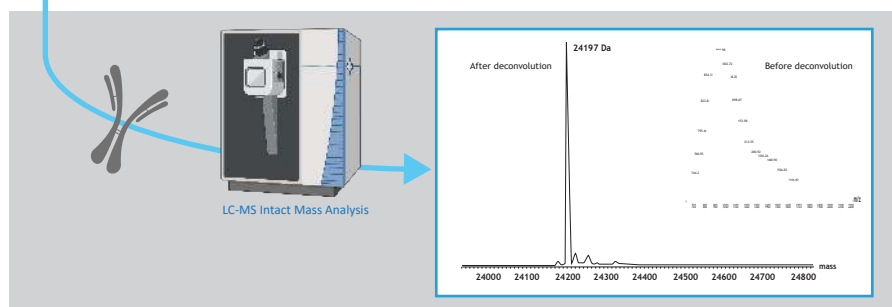


Protein *de novo* sequencing powered by PEAKS AB Software



Construct a *de novo* antibody protein sequence, directly from the fragment ion information with amino acid level accuracy

## Intact Mass Measurements of Antibody Chains



Assembled antibody sequence is validated with intact measurement of light chain and heavy chain by LC-MS

## PEAKS AB Monoclonal Antibody Sequencing Details

Time	You Provide	We Deliver
2 weeks	Monoclonal antibody sample (>0.1mg, >80% purity)	<ul style="list-style-type: none"> <li>• Full protein sequences</li> <li>• 3-tier Leu/Ile Differentiation</li> <li>• Comprehensive PEAKS AB report</li> <li>• Raw LC-MS/MS data</li> <li>• Interactive result viewer</li> </ul>

Price match guarantee and discount available for academic institutions or multiple samples. Contact us today!

## PEAKS AB Service Guarantees

- 100% Full sequence coverage from end-to-end
- Amino acid level accuracy
- Intact mass measurement validation
- Full PEAKS AB Report in less than 2 weeks
- In-depth glycan profiling (\*optional\*)

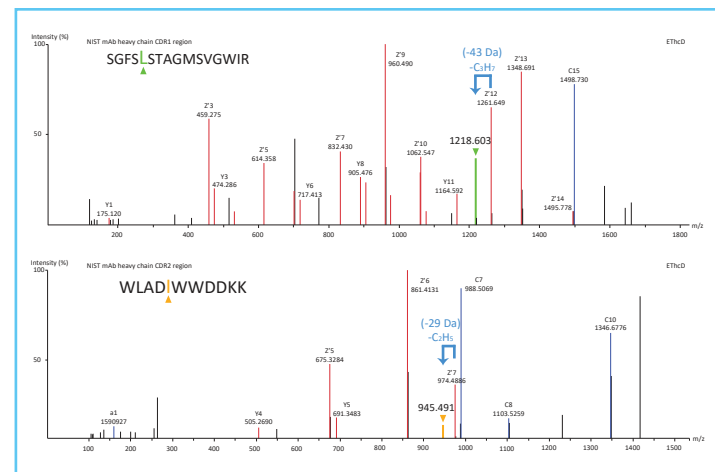
## Confident Leucine & Isoleucine Differentiation

Overall performance of the antibody's specificity and affinity can be assured with Confident Leucine and Isoleucine Differentiation.

In our Antibody Sequencing Service, we use an integrated 3-tier strategy that combines:



- 1) w-ion detection in EthcD.
- 2) enzyme cleavage preference.
- 3) homology statistics for unambiguous discrimination of Leu/Ile residues.



Characteristic loss of C<sub>4</sub>H<sub>7</sub> (-43 Da) or C<sub>3</sub>H<sub>5</sub> (-29 Da) from the side chain of particular z-ion allows the Leu/Ile discrimination