

P401: INTACT PROTEIN ANALYSIS

APPLICATION

- Analysis of purity and heterogeneity of protein therapeutics
- Analysis of glycan forms and molecular weight of mAbs
- Molecular weight analysis of mAb heavy and light chains
- Analysis of drug-to-antibody ratio of antibody-drug conjugates

SUITABLE SAMPLE TYPE

- Purified protein with a MW \leq 180 kDa, in solution or dried

MINIMUM SAMPLE REQUIREMENT

- Purity >95%
- \geq 10 μ g/sample is recommended for optimal results
- Detection limit: \geq 0.1 μ g
- *Please contact us for any specific samples or requirements*

SAMPLE PREPARATION

- Store the samples at -20°C or -80°C prior to shipping
- Package the samples with dry-ice or chemical blue-ice bag when shipping

GENERAL SAMPLE GUIDELINES FOR MASS SPECTROMETRY ANALYSIS

- ✓ **Protein Identification:** Any biological sample; detection limit \geq 1 ng/purified protein, \geq 0.1 μ g/mixture of proteins
- ✓ **Protein Profiling (Quantitative Proteomics):** Any biological sample; (e.g., tissue, cells, protein lysates, serum/plasma, etc.) with minimum requirements of >100 μ g/sample of total protein; >5 mg/sample for tissue; or >1 million cells/sample for cell pellets
- ✓ **PTM Analysis:** Phosphorylation, Acetylation, Methylation, Ubiquitination, etc. with minimum sample requirement of target protein \geq 0.1 μ g/sample
- ✓ **Intact Protein MW Analysis:** \geq 5 μ g/sample of any purified protein \leq 180 kDa
- ✓ **Peptide mapping:** \geq 20 μ g/sample of any purified protein with a purity >90% for 100% sequence coverage