



ANTIBODY PRODUCT ANALYSIS

IN ACCORDANCE WITH REGULATORY GUIDELINES

Antibody products should be characterized according to ICH, EMA and FDA guidelines. SGS provides a full GLP/cGMP analysis package for product characterization and identification of post translational modifications, which include:

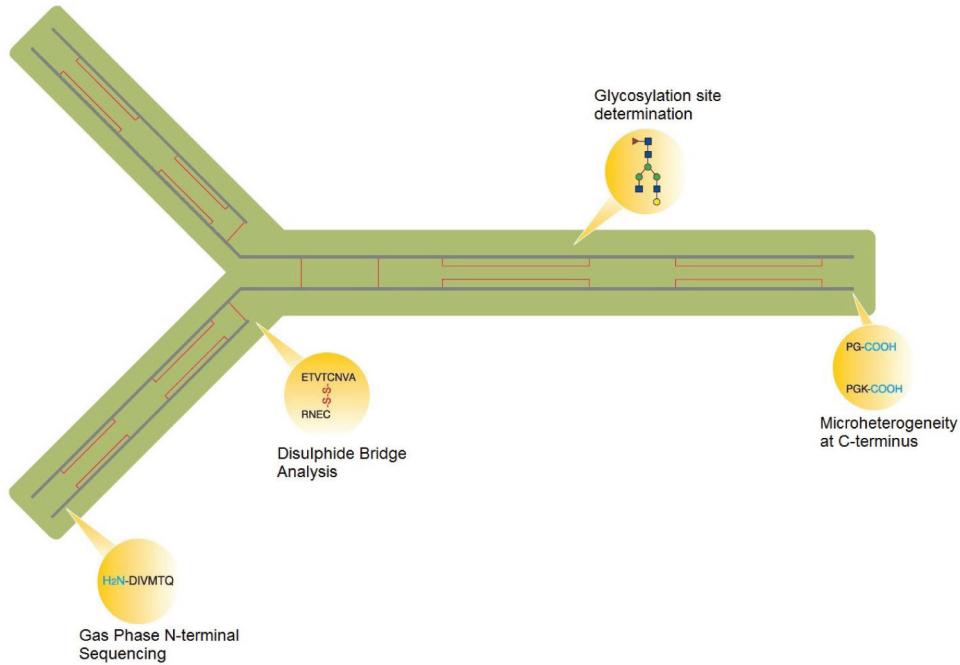
Structural characterization and confirmation:

- Amino acid sequence
- Amino acid composition
- N- and C-terminal sequence
 - N-terminal sequencing (automated Edman)
 - MS/MS peptide sequencing
- Peptide map
- Sulphydryl groups and disulphide bridges
- Carbohydrate structure
 - Monosaccharide composition analysis
 - Sialic acid analysis
 - Oligosaccharide profiling by HPAEC-PAD, HILIC-FLD and MS
 - Linkage analysis
 - Glycosylation site analysis
- Deamidation
- Oxidation

Physicochemical properties:

- Molecular weight or size
 - Gel electrophoresis
 - MALDI-TOF or ES-Q-TOF-MS
- Isoform pattern
- Extinction coefficient
- Electrophoretic pattern
 - Imaging cIEF
- Liquid Chromatographic patterns
 - Reverse Phase
 - Size Exclusion
 - Ion-Exchange
- Spectroscopic profiles
 - UV/Vis
 - Circular Dichroism
 - NMR
 - FTIR
 - Intrinsic Fluorescence
 - Extrinsic Fluorescence
 - 2nd derivative UV-VIS
- Aggregation
 - Analytical Ultracentrifugation (AUC)
 - SEC-MALS
 - DLS
- Thermal stability characterization
 - DSC
 - Thermal Unfolding curves with spectroscopic probes





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WHEN YOU NEED TO BE SURE