

From Discovery to Manufacturing

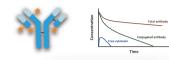


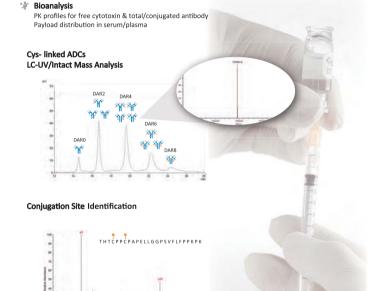
Analytical Solutions to Antibody Drug Conjugate (ADC)

HPLC/LC-MS/Immunoassay/Immunocapture

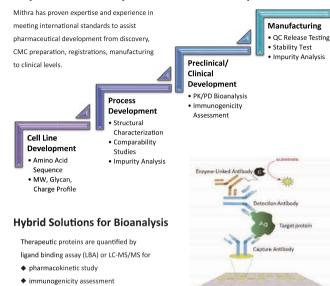
For Lys- or Cys- linked ADCs

Detailed Characterization Payload distribution Drug-to-antibody ratio (DAR) Drug conjugation site Full characterization of antibody

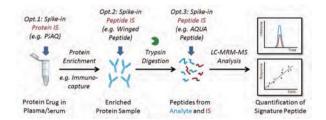




Analytical & Bioanalytical Services for Biopharmaceuticals



Ligand binding assay (LBA)



during preclinical and clinical research

www.mithracro.com

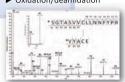
www.mithracro.com

Full Characterization Plan for Biologics

With profound expertise in biological products diverse in monoclonal antibodies, growth factors, antibody drug conjugates (ADC) and a variety of other proteins, our services include primary structure characterization, terminal sequencing, PTMs identification, disulfide bond assignment, carbohydrate structure analysis and peptide mapping for biosimilar comparison or lot-to-lot QC, and degradation/impurities profiling.

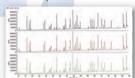
PTM Identification

- ▶ Disulfide bond and mismatch
- ► N-term pyroglutamate
- ► C-term Lys clipping
- ► Oxidation/deamidation



Peptide Mapping

- ► Lot-to-lot QC
- Variant analysis
- ► Comparability studies
- ► Similarity studies

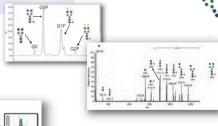


Amino Acid Sequence

- N-term, C-term sequence
- ► Full sequence analysis
- ▶ De novo sequencing

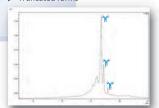
Glycan Analysis

- ▶ Carbohydrate structures
- ► Glycan profile
- ► Glycopeptide quantification
- ► Glycosylation sites



Product-related Impurities

- ▶ IEX. SEC. RP-HPLC
- ▶ Truncated forms



Molecular Weight Determination

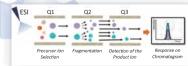
G0F/G2F or

▶ Reduced/deglycosylated form

► Intact mass

Process-related Impurities

- ► HCP & Protein A
- ▶ Residual antibiotics



Your Brilliant Choice of CRO Partner

Mithra Biotechnology Inc., the first Contract Research Organization in Taiwan since 1988 offers integrated and multi-dimensional CRO services including full characterization plans for biologics in accordance with ICH Q6B, and bioanalytical services for chemical drugs and biologics. Our GLP laboratory is equipped with state-of-the-art analytical instruments including UPLC-MS/MS, LC-MS/MS, nanoflow LC-HRMS, ICP-MS and ELISA systems for sensitive and high throughput drug quantification in various biological matrices. A great variety of comprehensive methods have been developed and validated for contract research, as well as SOPs been established and applied to ensure the result been delivered to its highest quality.







Mithra Biotechnology Inc. www.mithracro.com

- T: +886-2-2696-2669
- F: +886-2-2696-2543

Taiwan

E: info@mithracro.com 7F., No. 104, Sec 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221,

www.mithracro.com www.mithracro.com