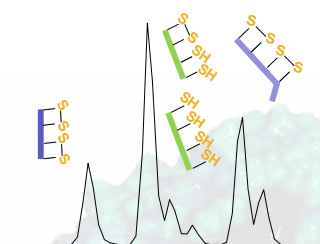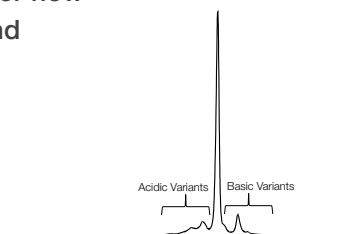**ThermoFisher**
SCIENTIFIC

BioLC

Take charge of your therapeutic protein separation with Thermo Scientific BioLC Columns

Your complete tool kit - Thermo Fisher Scientific has innovative Thermo Scientific™ BioLC™ columns for each step of your therapeutic protein characterization, no matter how challenging your separation. To demonstrate our comprehensive options and exceptional performance we characterized a model sample of Pertuzumab.
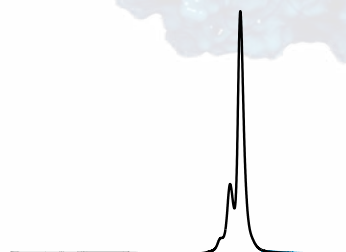
Intact or subunit analysis

Thermo Scientific™ MAbPac™ RP is ideal for intact and subunit analysis by MS or UV detection. The polymeric packing material offers column longevity, high resolution and the wide pores to allow for low carryover profiling of your sample.
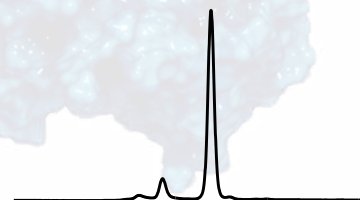
Oxidation monitoring

Deduce protein folding errors or charge-neutral amino acid modifications with the Thermo Scientific™ MAbPac™ HIC-20 hydrophobic interaction column. Our range of innovative HIC chemistries deliver native separations not seen on other columns.

Peptide mapping

Experience reproducible peptide mapping and quantitation. The combination of rapid digestion from the Thermo Scientific™ SMART Digest kit and separation with thehigh resolution Thermo Scientific™ Hypersil™ GOLD column delivers outstanding, reproducible and efficient peptide mapping separations.

Acidic Variants | Basic Variants

Charge variant analysis

Quickly develop your charge variant method with the Thermo Scientific™ ProPac Elite WCX column and the easy-to-use Thermo Scientific™ CX-1 pH gradient buffers. Elucidate your profile as quickly as 10 minutes on this reproducible platform. Find excellent, complementary selectivity with the Thermo Scientific™ MAbPac™ SCX-10 column.
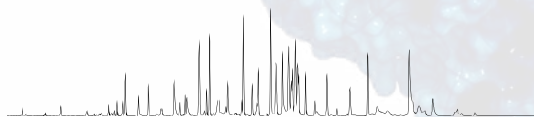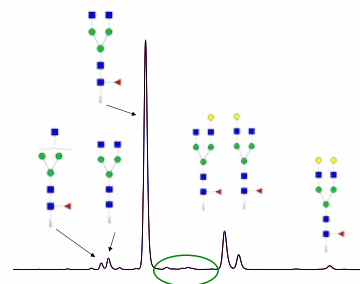
Aggregate analysis

Thermo Scientific™ MAbPac™ SEC-1 offers excellent size exclusion separation even under challenging conditions for aggregate analysis. Compatible with mass spectrometry for native LC-MS/MS workflows.

Released glycan analysis

Fully characterize your released N-glycans with the Thermo Scientific™ Accucore™ 150 Amide-HILIC column. This solid core column offers high resolution, durability, and the ability to run separations at lower temperatures to reveal the complete glycan profile.

Learn more at **thermofisher.com/bioLC**