



Accelerating precision medicine through proteomics and immune monitoring™
caprion.com

IDENTIFY AND QUANTITATE HOST CELL PROTEINS IN BIOLOGICS WITH PROTEOCARTA™ HCP DETECT TECHNOLOGY

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WHY CHOOSE CAPRION AS MY BIOANALYTICAL PARTNER?

ProteoCarta's HCP Detect technology platform is mass spectrometry-based, providing detailed characterization of protein impurities throughout all stages of process development. Unlike total HCP immunoassays, HCP Detect provides early identification and quantitation of individual host cell proteins.

ProteoCarta's HCP technology does NOT require antibodies, resulting in:

- Deep coverage of HCPs throughout all development phases of a biologic
- Fast conversion to a quantitative and multiplexed protein-specific assay for batch testing
- Requires only 1 mg of drug substance

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WHAT ARE THE ADVANTAGES OF PROTEOCARTA'S MASS SPECTROMETRY-BASED HCP TECHNOLOGY PLATFORM?

Quantifiable and Specific Results

- Identification of exact HCPs in early process development when only a total HCP immunoassay is available
- Ability to use the quantitative assay on demand on an unlimited basis
- Allows the comparison of different production processes and demonstration of clearance of HCPs

Comprehensive Results

- Ability to simultaneously identify multiple HCPs and verify identities
- Sensitive and specific
- Identification of other protein-based process impurities

Confident Results

- Increased depth of coverage ensures better characterization of protein impurities
- Mass spec-based HCP assays are gel-free and antibody-free

Characteristic	ProteoCarta™ HCP Detect	Total HCP immunoassays
Identification of HCP	Positively Identify Individual HCPs	Detect HCPs as a Population
Antibody Development Required	No	Yes
Quantitation	Quantitative	Semi-Quantitative
Measurement Type	Direct	Indirect
Specificity	Very High	Medium

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HOW WILL CAPRION HELP MY MANUFACTURING OF BIOLOGICS?

ProteoCarta's HCP Detect Technology provides an unbiased and orthogonal tool to measure host cell clearance in biologics during process development and manufacturing.

Caprion has established Standard Operating Procedures and has extensive experience in assay development, qualification, and validation.

We have expertise to analyze and identify very small amounts of protein impurities in biologics, in a very specific and quantitative process.

Our mass spectrometry based platform enables rapid development of custom HCP assays.

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WHO IS PROTEOCARTA™?

ProteoCarta is the proteomics business unit of Caprion and a trusted contract research partner for companies manufacturing biologics. Over 50 biotechnology and pharmaceutical companies have trusted Caprion's expertise for more than a decade.

Our expertise, technologies and capabilities continue to meet the rapidly growing and critical needs of biologics manufacturing.



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For more information contact us at 1-877-776-3443 • caprion.com • info@caprion.com