ZipChip

High Throughput Charge Variant Analysis

Charge variant analysis is routinely used to characterize proteins and provide critical information on the charge heterogeneity of recombinant protein. The system used for this analysis should be high throughput, simple, and able to tolerant many different sample matrices so that sample prep is easy, and data is generated quickly.

Accelerate charge variant analysis

ZipChip® provides a fast, accurate, and flexible approach to charge variant analysis. Rapidly screen for the ultimate in high-throughput analysis, or tailor the method to suit a flexible mAb characterization approach without having to change conditions or instrumentation. Queue it all up, ignore your salt and polymeric buffer components, and hit go.

Get the unfair advantage

Current methodologies for charge variant analysis are typically done with conventional capillary-based CE systems using UV detection. ZipChip can not only perform native charge variant analysis coupled to high resolution mass spectrometry, but now has the added capability of choosing between high resolution OR high throughput approaches.

	Intact mAb Charge Variant Separations	Native ESI-MS Spectra	Superior Speed	Superior Separation Resolution
HSN	✘	✘	✘	
HRN	✘	✘		✘

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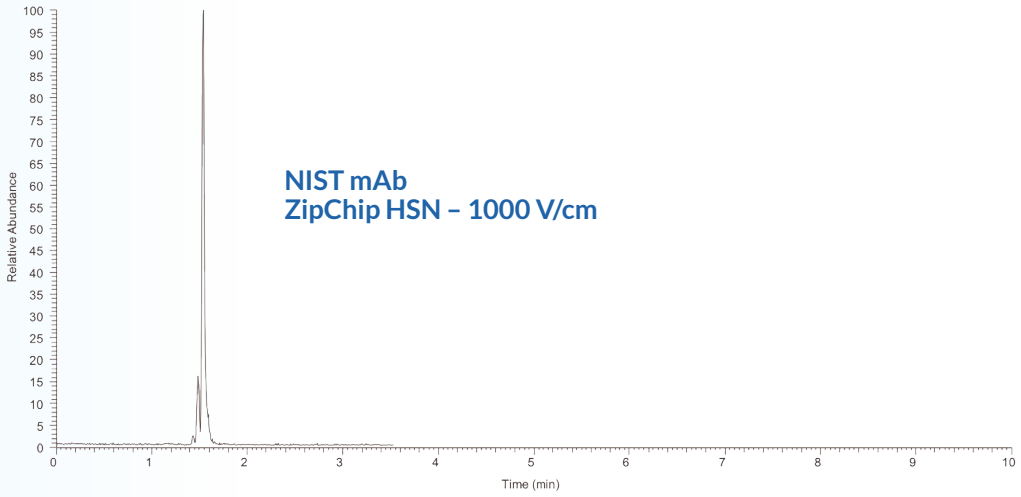
ZipChip® can be used to perform an intact charge variant assay under native-ESI conditions. These conditions generate an intact mass spectrum suitable for characterizing the intact mass and major (charged) modifications to the protein, including deamidation. By changing the type of chip used, the speed of the analysis can be easily tailored to the best suit the experiment and MS instrument used.

High Throughput Charge Variant Analysis

Run Times:
As fast as 2 minutes

Chip Type:
ZipChip HSN

Kit Type:
Native Antibodies Kit

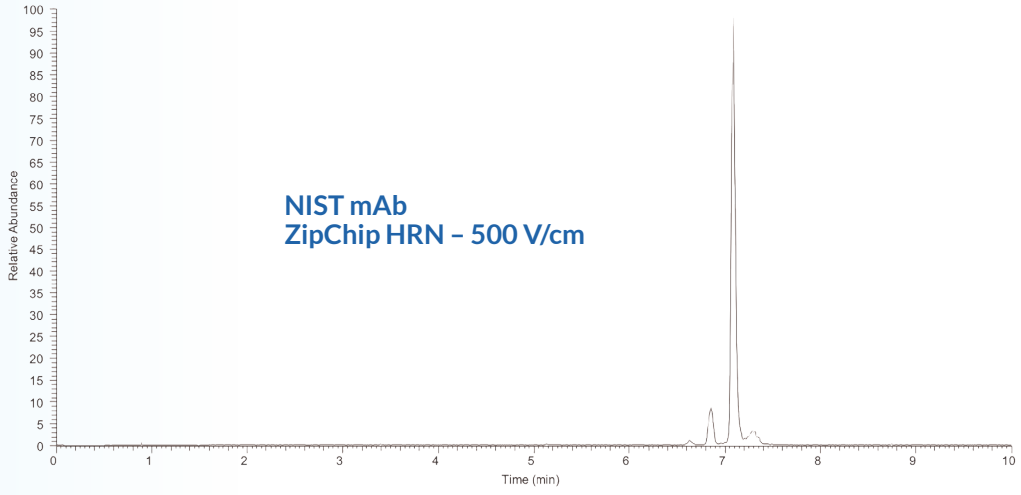


High Throughput Charge Variant Analysis

Run Times:
About 10 minutes
(molecule dependent)

Chip Type:
ZipChip HRN

Kit Type:
Native Antibodies Kit



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