

ZipChip

KICK YOUR MASS SPEC INTO OVERDRIVE

Pop ZipChip on your mass spec, and it will separate your samples and electrospray them into your mass spec for analysis.



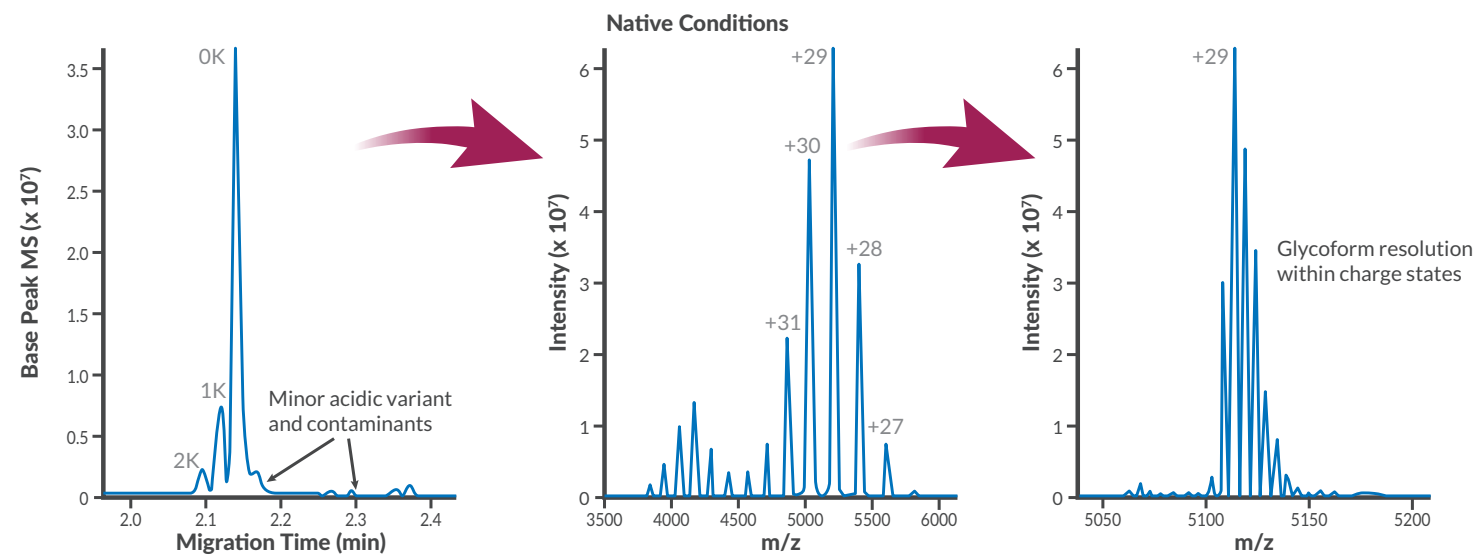
MICROCHIP CE-MS

YOUR MASS SPEC'S SIDEKICK

GIVE YOUR MASS SPEC SOME ZIP

The ZipChip® platform prepares and separates a wide range of biological samples, then electrosprays them into your mass spec for analysis. Just clip it on.

The process takes as little as a few minutes, and it results in better separation quality than most LCs in a fraction of the time. Simple workflows and multiple kit options cover a host of biotherapeutic, metabolomic and proteomic applications.



EASY ON SAMPLES

Now the kicker. ZipChip plays well with your mass spec and your proteins. Gentle sample prep reagents preserve structural integrity without denaturing or unfolding proteins for fully native mass spectra. No need to remove detergents or desalt. Negative and neutrals are trashed. Only positive analytes head out for cleaner mass spectra and more identified peaks.



CRAZY EFFICIENT

EASY AS 1-2-3

Pick an application, a chip, and a kit. After simply loading the premixed background electrolyte and sample into the autosampler, pop in a ZipChip, and hit run. Use vials or 96-well plates.

It's hands-off from there. Smart chips tell the system which method to use based on your preferences. Samples are automatically loaded, separated and electro sprayed. Integrated software cues the mass spec to start analysis.

THE SECRET SAUCE

Microfluidic technology integrates capillary electrophoresis (CE) and electrospray ionization (ESI) on the ZipChip. Junctions and dead volumes don't exist so analytical quality stays high, and no injection bias improves repeatability.



1 Pick your application, kit, and chip



2 Simple sample prep



3 Load reagent and chip, then run



“WITH ZIPCHIP YOU GET THE DATA FASTER, AND BECAUSE OF THAT YOU CAN MAKE QUICK DECISIONS”

Associate Scientist at Amgen

HERE'S WHAT HAPPENS:

A small sample plug is pressure-injected into the ZipChip

1

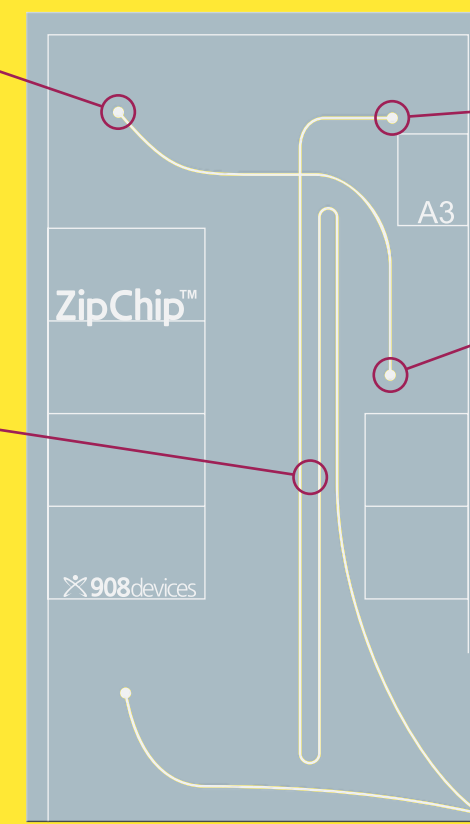
2 Voltage is applied across the separation channel

5 Neutrals and negatives go to waste

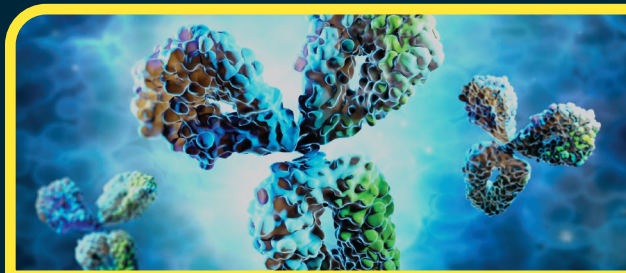
Sample migrates through microfluidic channel fulfilled with BGE and separates based on charge and size

3

4 Positive analytes are separated for electro spray into the MS

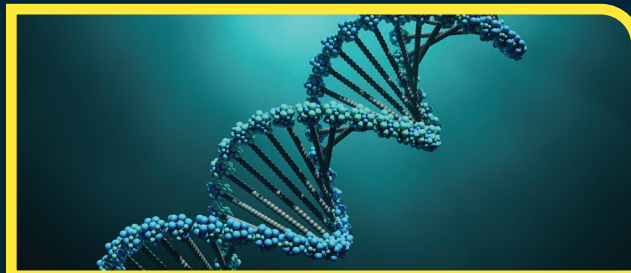


FROM LARGE TO SMALL MOLECULES, **ZIPCHIP'S** GOT YOU COVERED



Protein Characterization:

ZipChip is a one-stop shop for CQA's - from native analysis to peptide mapping. You'll get high-resolution separation coupled to MS with simple, streamlined workflows.

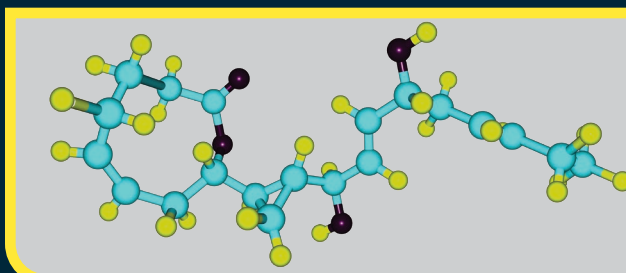


Oligonucleotides:

The characterization of nucleic acid-based drugs like oligonucleotides isn't easy. ZipChip can offer some advantage over LC separations, such as no ion-pairing agents to contaminate the instrument.

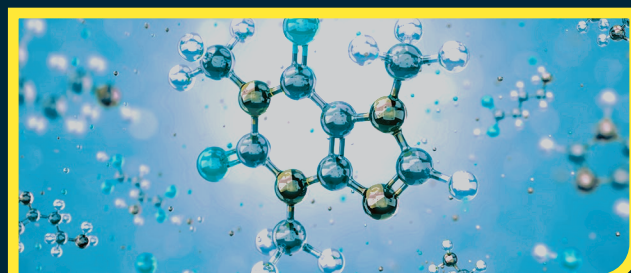
Small Molecules:

Analysis is easy and fast with ZipChip. Simply dilute and shoot; there's no labeling or derivatization. Small polar analyte assays take as little as 2 minutes. Add internal standards for full quantitation on a variety of analytes.



Metabolomics:

Detect, identify and quantitate small polar analytes from a variety of matrices like cell lysates or growth media and monitor dynamic levels of metabolites in real time. Sample prep is quick and easy and results are ready in minutes.





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