High Accuracy and Selectivity

12 Food Allergens in 1 Analysis

Solution for Food Allergen Screening

Reduced False Negative Results

SCIEX

Answers for Science.
Knowledge for Life.™

# Changing the Game in Food Allergen Detection

Undeclared food allergens is one of the primary sources for food recalls today. It's time to reduce the risk. Meet the state-of-the-art allergen screening assay designed to improve throughput, reliability, and confidence in your food allergen screening results.

Capitalize on these unique advantages that the SCIEX Food Allergen Screening Assay can deliver:

### Increase throughput
Detect 12 key allergens in different types of matrices at once

### Reduce false positive and false negative results
Enhance selectivity through peptide mass detection, reducing false results due to cross reactivity or matrix effects

### Improve accuracy and reliability
Detect allergens at levels as low as 10 ppm or as high as 500 ppm without worry

"Traditional methods like ELISA and PCR for allergen analysis come with several challenges, including detection accuracy in processed products or the costliness of testing for several allergens in the same sample. LC-MS/MS has the potential to overcome these challenges, leading to safer products for affected consumers."
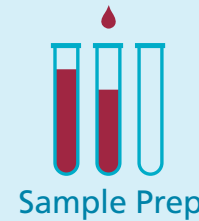
*Dr. Bert Pöpping*
*Mérieux NutriSciences Corporation*

## Assay Performance

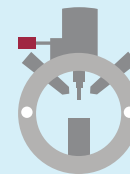| | Value |
|---|---|
| # of allergens | 12 |
| # of unique peptides per allergen | >4 |
| # of unique MRM transitions per allergen | >8 |
| Screening LOD | 10 ppm in commodity |
| % accuracy at 10 ppm | 85-125% |
| % RSD at 10 ppm | <30% |
| Sample prep time (up to 24 samples) | 3-4 hrs. sample prep; 3 hrs incubation for digestion |
| Sample Matrix | Baked goods and raw materials |
| Instrument | SCIEX Triple Quad™ and QTRAP® 4500 |
| LC-MS/MS run time | 12 min per sample |
| External verification lab | Mérieux NutriSciences |

## Assay Components

### Sample Prep

The proprietary sample preparation protocol has been verified and tested in multiple independent laboratories.
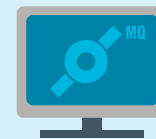
### HPLC

### Mass Spec

All the legwork has been done. Get the detailed, verified LC separation conditions and the MRM transitions for all relevant allergenic peptides, and upload the method in a few short steps.

### Software

Included is the software you need to quickly process large batches of samples to screen for all 12 allergens simultaneously.

### Service/Support

A helping hand to get you started. A dedicated SCIEX Support team member will be available to answer questions, or submit your questions on the fly in our online community.

# Your Success is Our Success
## We take it personally

As a SCIEX customer you have access to a world-class customer support organization. Wherever you are, we're there with you as a trusted partner to answer questions, provide solutions, and maximize lab productivity.

Our customer support organization has access to the latest product updates, software revisions, methods and repair procedures to make sure that you stay on top of your game.

When you have questions, we have answers.
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