


The infographic features a central blue circle with a white arrow pointing right, containing the text 'Solution for Food Allergen Screening'. Surrounding this are three colored circles: a maroon one at the top with 'High Accuracy and Selectivity', an orange one on the left with '12 Food Allergens in 1 Analysis', and a red one on the right with 'Reduced False Negative Results'. Each circle is connected to a corresponding food image in a smaller circle: bread for the maroon circle, tomatoes for the red circle, and peanuts for the red circle. The background has a light gray network of nodes and lines.

High Accuracy and Selectivity

A circular inset image showing several slices of a golden-brown loaf of bread.

12 Food Allergens in 1 Analysis

Solution for Food Allergen Screening

A circular inset image showing a cluster of fresh, red tomatoes on a wooden surface.

Reduced False Negative Results



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.”

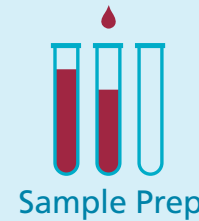
Dr. Bert Pöpping
Mérieux NutriSciences Corporation

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



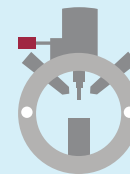
Sample Prep

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

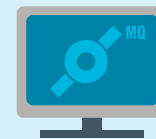


HPLC

- 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.



Mass Spec



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.

sciex.com/AllergensMS

Answers for Science.
Knowledge for Life.™

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