

It's a Triple Quadrupole and So Much More

See how the QTRAP® system addresses your biggest analytical challenges

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QTRAP technology delivers equivalent or better data, and more of it, than you can capture on an ordinary triple quadrupole system.

Overcome these 5 common challenges by taking the leap to QTRAP.

1

Quantitation challenges due to complex matrices?

QTRAP technology can decrease the worry for accurate quantitation, as it is free from matrix interferences.

Increase data selectivity beyond triple quadrupole technology. The integrated Linear Ion Trap's (LIT) unique MRM³ scan functionality enables precise quantitation from second generation fragment ions, decreasing matrix interferences without added sample prep.

2

Not sure about the accuracy of your compound ID?

QTRAP technology can reduce the doubt for definitive compound identification.

Increase specificity beyond triple quadrupole technology. QTRAP technology's enhanced product ion (EPI) functionality gives you complete MS/MS spectra to cross reference with an integrated library for ultimate confirmation when reporting your results.

3

Looking to increase throughput by decreasing sample rechecks?

QTRAP technology produces more high quality results in every run.

Increase throughput beyond triple quadrupole technology. By capturing MRM and enhanced product ion (EPI) MS/MS confirmation scans in one injection, you get high quality MRM quantitation with MS/MS confirmation at once for ultimate throughput and fewer rechecks.

4

Needing to find unknowns in your samples?

QTRAP technology has the tools for your search.

Screen for unknowns better than you can with triple quadrupole technology. With the enhanced mass spec (EMS), enhanced resolution (ER) and enhanced product ion (EPI) scanning capabilities, QTRAP can help you find and characterize components in your sample.

5

Being asked to do more than just quantitation?

QTRAP technology gives you diversity.

Enable your lab with functionality beyond triple quad technology. Sensitive and robust MRM quantitation combines with multiple other unique enhanced scan functions, giving you the quantitative performance of a triple quad system with added power to develop new methods or improve your existing workflows. Experience the power to do so much more on one mass spec system.



QTRAP meets the challenge.
Better selectivity. Complete confidence. Unrivalled efficiency. Ultimate performance.

Discover the Benefits of QTRAP Technology for These Selected Food Testing Application Areas

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Residue Analysis

The biggest benefits:

The ability to capture full MS/MS spectra for library search comparisons when an MRM peak is detected means you not only get more confidence in your compound identification to complement your MRM ion ratios, but you reduce the potential for sample rechecks to help increase your lab's throughput.



Mycotoxin Analysis

The biggest benefits:

Experience the power of polarity switching and Scheduled MRM™ algorithm to screen and identify multi-toxins even a trace level, within a single analysis.



Quantitation in Complex Matrices

The biggest benefits:

Sometimes MRM does not offer enough selectivity to eliminate background interferences from complex matrices, making quantitation impossible. MRM³ offers the added selectivity needed to remove those interferences for clear peaks that allow reliable quantitation in complex matrices.



General Chemical Screening & Confirmation E.g. Naturally Occurring Toxic Substances

The biggest benefits:

QTRAP technology delivers true combined qualitative and quantitative (qual/quant) analysis: Qualitative screening is powered by the enhanced product ion MS/MS scans with library searching, with quantitation using the MRM peak – both from the same sample injection.

The enhanced mass spec scanning function is also powerful for the sensitive qualitative screening for unknowns across these application areas.



Veterinary Drugs & Antibiotic Analysis

The Biggest Benefit:

The QTRAP 4500 system provides optimum results and accurately screens, identifies and quantifies residues at trace levels, enabling the detection of both regulated and banned substances

The QTRAP 4500 system easily meets regulatory requirements for identification and quantitation of dozens of residues in a single run



**QTRAP meets the challenge.
Better selectivity. Complete confidence.
Unrivalled efficiency. Ultimate performance.**