SHIMADZU

NOT JUST ANOTHER COG IN THE MACHINE

Improving Liquid Chromatography Workflows with Mass Spectrometry



High-performance liquid chromatography (HPLC) is used extensively across research and industry, to quantify and qualify target compounds. However, its accuracy and sensitivity can be limited when separating compounds with close retention time.

This infographic will demonstrate the impact of mass spectrometry (MS) on HPLC accuracy and efficiency.

Putting the MS into LC-MS

Traditionally, LC uses ultraviolet, fluorescent or refractive index detectors to identify and quantify compounds present in a sample. However, LC-MS workflows have emerged as a more selective, sensitive and universal option for detection.







Incorporating MS into your HPLC workflow

Adding an MS system into an existing LC lab can seem like a daunting task, but a modular MS instrument can tackle the limitations of an LC without putting any extra burden on the user.



Futureproofing LC-MS: meet the Shimadzu LCMS-2050

The single quadrupole LCMS-2050 fits seamlessly into existing LC workflows to give high-speed and highsensitivity analysis.

Technical advantages of the LCMS-2050 for molecular identification

By adopting a heated dual ion source (DUIS™) that combines ESI and APCI features, sensitivity is increased for low polarity compounds, removing the need to switch ion sources.

An effective tool for a wide range of applications

LCMS-2050 shows increased performance in various fields of research and industry that have traditionally used LC alone for analysis.

Elevate your HPLC workflow with MS today.

Mass-it, LabSolutions and DUIS are trademarks of Shimadzu Corporation or its affiliated companies in Japan and/or other countries