

FRONT COVER PRODUCT

Triple Quadrupole MS



Improving precision and throughput, Shimadzu's new GCMS-TQ8040 is a most accurate, cost effective and easy-to-use triple quadrupole GCMS.

The system combines Ultra Fast Mass Spectrometry (UFMS) and Multiple Reaction Monitoring (MRM) based on Shimadzu's patented UFsweeper technology. MRM streamlines the entire process of adjusting the loop and dwell times for optimum sensitivity, and methods are created with the touch of a button. Through smart technologies, the triple quadrupole GCMS provides a new level in routine work: Smart Productivity is the key to simultaneous multi-component analysis, high efficiency and sample throughput. UFMS in the Multiple Reaction Monitoring mode can acquire up to 32,000 transitions in a single analysis. Smart MRM technology adjusts the analytical dwell time automatically for each transition to fully optimize sensitivity and data quality; Smart Operation facilitates rapid and easy method development. Tools, software and functions optimize the operation of the system, e.g. a smart database of related compounds (pesticides, drugs etc.), and the GCMSSolution operation software featuring Automatic Adjustment of Compound Retention Time (AART); Smart Performance enables Scan/MRM for low detection limits and simultaneous target compound confirmation. Shimadzu's proprietary UFsweeper technology achieves high-speed MRM analysis and provides high-efficiency CID and fast ion transport. Rapid ion removal minimizes cross-talk and enables trace analysis. The high-efficiency ion source supplies maximum possible sensitivity and repeatability.

SHIMADZU

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Connected slide stainer/cell analysers



With the ability to connect up to three DxH 800 analysers with one DxH Slidemaker Stainer, the UniCel DxH Workcell enables labs to create a customized, scalable

workflow solution that can streamline workflow management while delivering comprehensive and accurate patient results. Performance, low review rates and first past accuracy are all driven by Beckman Coulter's exclusive Automated Intelligent Morphology (AIM), a multidimensional, flow cytometric technology that improves analysis of abnormal specimens, Digital Signal Processing (DSP), Multi-Transducer Module (MTM) and advanced algorithms. Workflow is managed efficiently through the DxH Workcell's automated sample routing and increased data management capabilities. The UniCel DxH eliminates the need for pre-sort and offers workflow enhancements with bi-directional transport, preventing any potential for delay in sample testing and the reporting of results. The UniCel DxH Workcell is currently not available in the U.S. for in vitro diagnostic use.

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Multiplex respiratory array

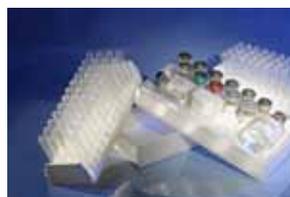


New research from Public Health England and University College London reveals the startling increase of antibiotic prescribing across the UK; up 40% since 2000. The debate around the issue of antimicrobial resistance assumes additional urgency.

In addition, it is estimated that each year one million people across GB spend at least one week in hospital due to respiratory infections. Through more accurate diagnosis, and the more appropriate use of antibiotics, it is possible to improve treatment and reduce the effect of antibiotic resistance. A reduction of average bed stays from seven days to five days would save the NHS half a billion pounds (€600 mil.) annually. First time, accurate diagnosis is the key and the latest weapon in the fight against antibiotic resistance is taking the form of advanced diagnostics. Randox Respiratory Array is a new test for the identification of respiratory infections. The test screens saliva, mucus or sputum from a patient and can accurately identify up to 22 infections, both viral and bacterial, at the same time, with results back to the doctor on the same day. The test will allow for much needed progression in appropriate prescribing and treatment – enabling doctors to prescribe the correct antibiotic, not just 'an' antibiotic or indeed another form of effective medication.

RANDOX LABORATORIES

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RIA*,
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always love it!

DIAsource offers :

- 30 years' development and manufacturing experience in RIA
- More than 70 different IVD-CE marked assays
- Different disease fields covered

Endocrinology Field	Examples of products (RIA)
Bone metabolism	25 OH Vitamin D, 1,25 (OH)2 Vitamin D, PTH, Osteocalcin
Cancer markers	AFP, CEA, NSE, CT, CgA, CA15.3, CA19.9, CA125, Gastrin
Cardiovascular & Salt Balance	Renin, Aldosterone, Cortisol, CBG, 11-desoxycortisol
Diabetes Metabolism	Insulin, C-Peptide, AIA, Glucagon
Fertility	Free Testosterone, Estrone, DHEAS, DHEA, DHT, 3-Alpha DIOL G, 17 OH Progesterone, Testosterone, Estradiol, Androstenedione
Growth Factors	hGH, IGF-1, IGFBP-3, IGFBP-2, IGFBP-1, IGF-2
Thyroid	TSH, T3, T4, FT3, FT4, TSH-Receptor Ab, Rev T3, Tg-Ab, TPO-AB

*Radio-Immuno-Assay



DIAsource ImmunoAssays S.A. - Rue du Bosquet 2 - 1348 Louvain-La-Neuve - Belgium
E-Mail: info@diasource.be - Tel +32 10 84 99 11 - Fax +32 10 84 99 96 - www.diasource.be

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