

# DIGITAL CLASSROOMS

RESOURCE BOOKLET FOR  
ON-DEMAND WEBINARS

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# Excellence in Science

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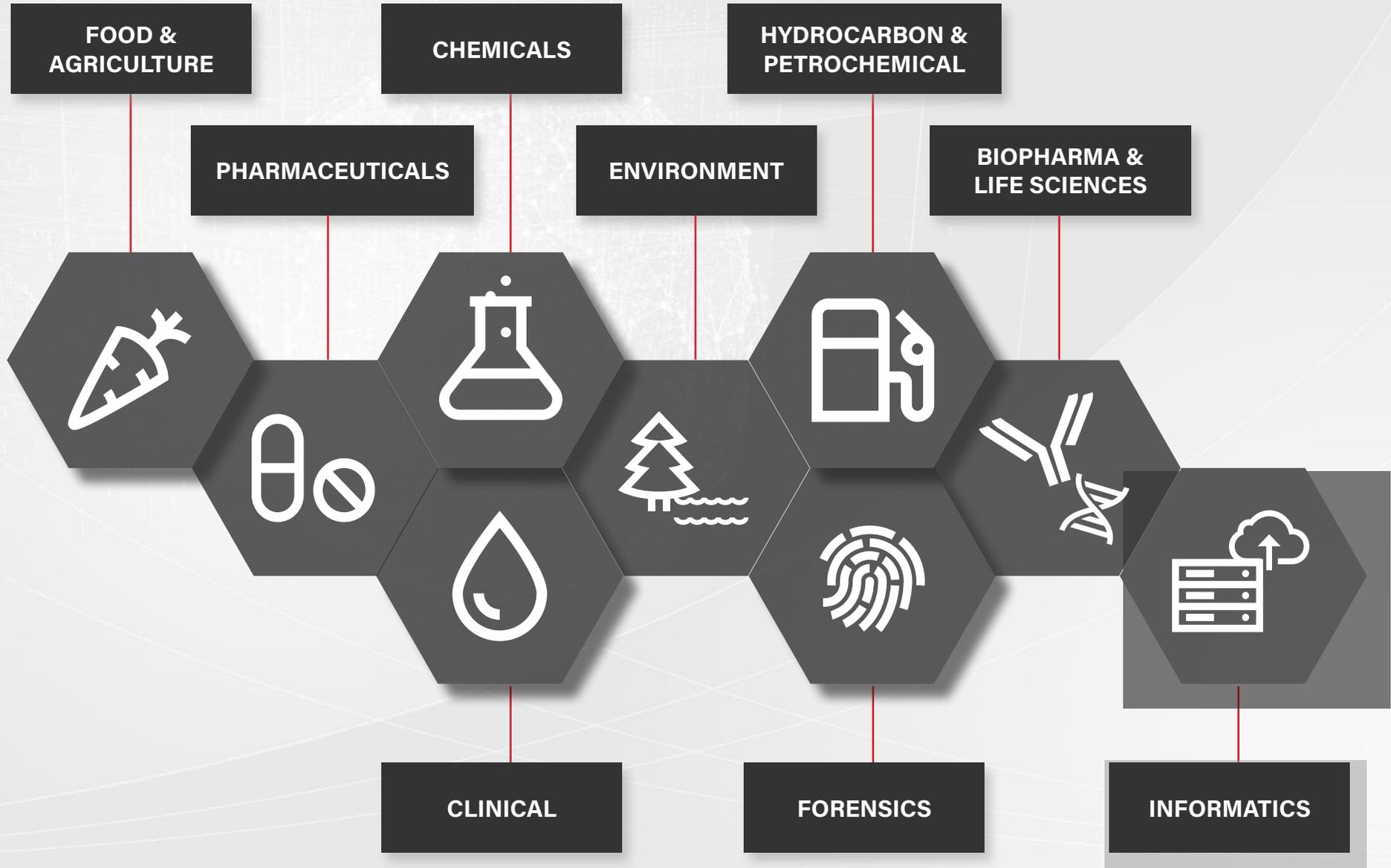
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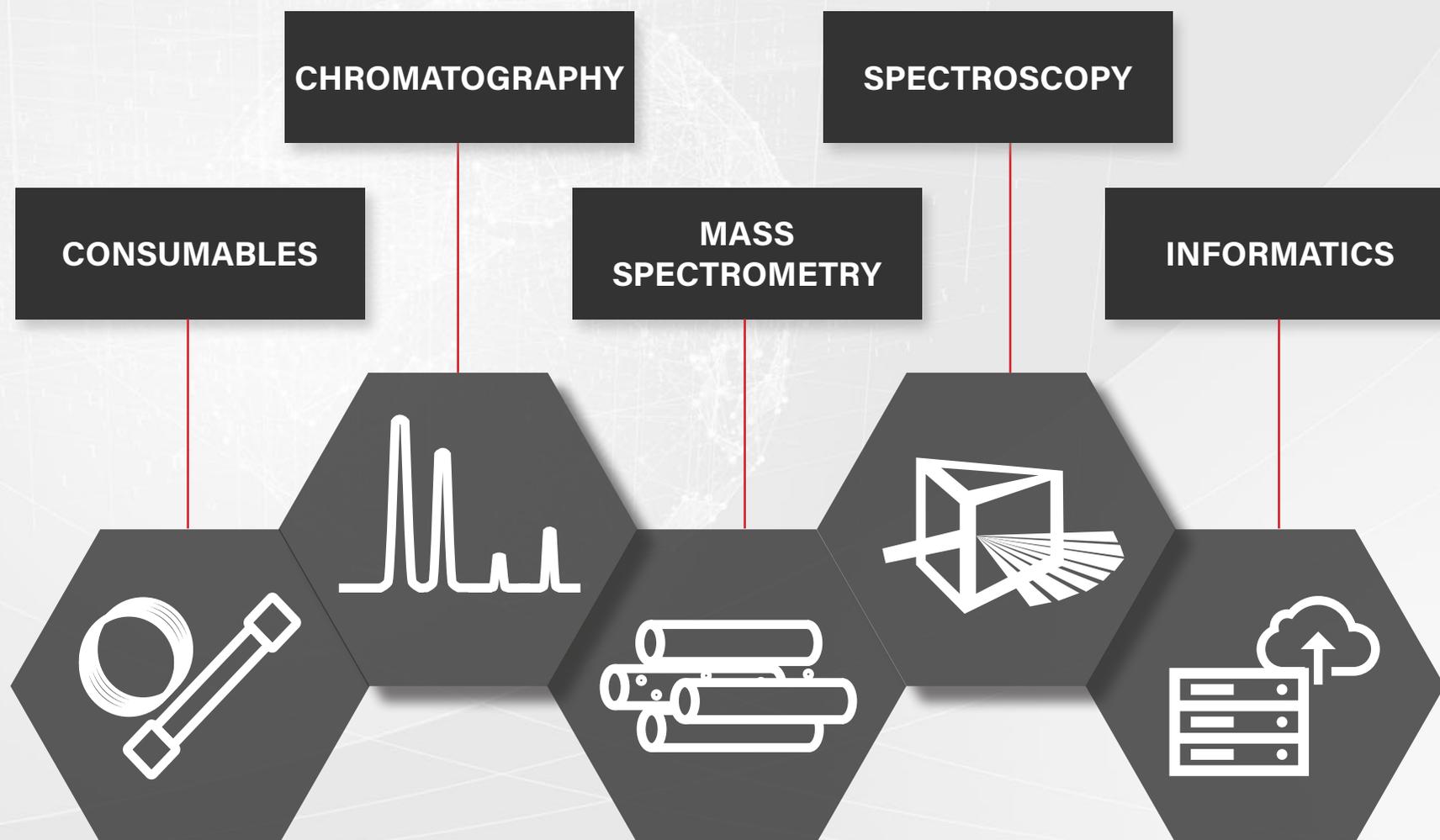
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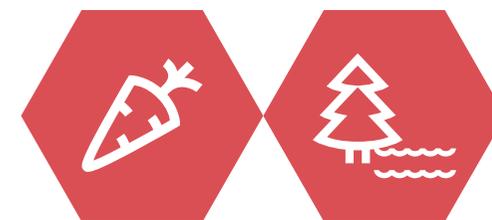


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# FOOD & ENVIRONMENT

01

Food Contact Materials - GRAS\* or Gross?

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02

Emerging Water Quality Issues: Are You Ready to Monitor PFAS in your Water?

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03

The Importance of Ultra Fast Mass Spectrometry for the Analysis of Chemical Hazards in Food & Beverages

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04

On-line Pre-column Derivatization and UHPLC Analysis of Total Amino Acids in Animal Feed with Microwave Digestion for Fast Sample Preparation

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05

LCMSMS method for vitamin D and B analysis as per AOAC method

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06

Shimadzu solution for Halal testing

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07

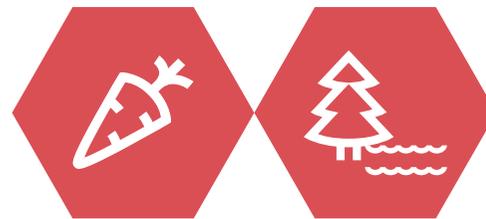
Efficient and reliable Water quality monitoring as per EPA 200.7/ 200.8 with Shimadzu ICPAES/ ICPMS

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# FOOD & ENVIRONMENT

08

GC-MS/MS For Food safety

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09

Product Quality: Off-flavour Analysis

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10

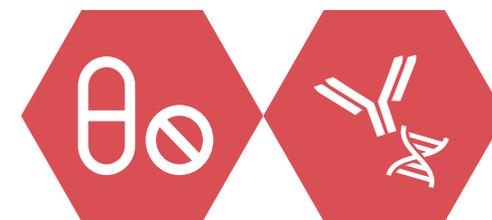
GC solutions for food analysis

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# PHARMA & BIOPHARMACEUTICALS

01

**An Introduction to Light Emission Spectroscopy, with a focus on Fluorescence: Theory and Materials Characterization Applications**

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02

**Plastic Films, Fabrics, Nano Particles, and Butterfly Wings: Novel, "Outside the Box", Uses For UV/Vis/NIR Integrating Spheres**

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**First AI-enabled and IoT Driven LC**

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**Implementing USP-232/233 (ICH Q3D) Guidelines for Elemental Impurities with ICPAES/ ICPMS**

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**Protein purification and protein characterization for life science customers**

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**LCMS-9030 Q-TOF for peptide mapping and structural characterization of mAb biosimilars**

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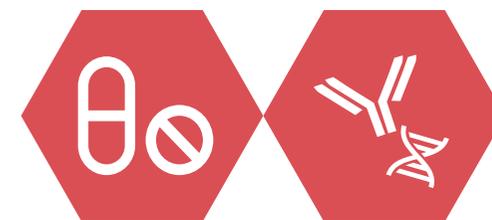
**Validation of quantitative method for determination of 24 elemental impurities in pharmaceutical products following USP 232/233 on ICPMS-2030**

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# PHARMA & BIOPHARMACEUTICALS

**08** Application of alternative Ion-Pairing LC/MS/MS method in bioanalysis

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**09** Shimadzu LCMS solutions for Nitrosamines analysis

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**10** Fundamental of Extractables & Leachables (E &L)

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**11** Pharma solutions by GC-MS/MS for GTI

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**12** The Next Industry standard GC: Nexis and Accessories

COMING  
SOON

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**13** Method development in charge variant analysis of biomolecules

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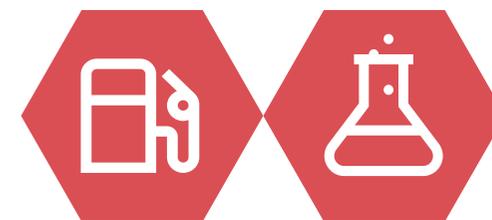
**14** Shimadzu Medicinal Chemistry Solutions

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# CHEMICAL AND MANUFACTURING

01

**Analysis of Sulfur Compounds in Hydrocarbon Matrices by ASTM D5504, D5623, and D7011 with a new GC-SCD**

▶ WATCH NOW

02

**Reliable Sulfur Speciation by A Newly Designed GC SCD**

▶ WATCH NOW

03

**Expanding Material Characterization Capabilities Using Pyrolysis GCMS**

▶ WATCH NOW

04

**Analyzing Aromatics in Jet and Diesel Fuels Using LC-RID**

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**UV/Vis/NIR Spectroscopy in the Arena of Materials Characterization Research and Quality Control: How Instrumental Performance and Accessories Define Success**

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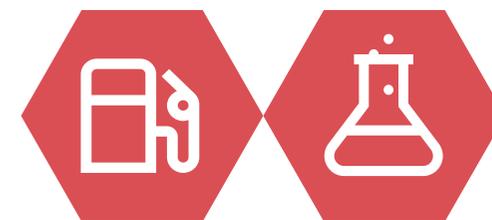
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**Plastic Films, Fabrics, Nano Particles, and Butterfly Wings: Novel, "Outside the Box", Uses For UV/Vis/NIR Integrating Spheres**

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**Product Quality: Off-flavour Analysis**

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**Analysis of AdBlue® (AUS 32) Following ISO 22241-2 Using ICP-AES & FTIR**

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10

**Quick and Accurate Spectro Solutions for Personal Protection Equipmet (PPE)**

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11

**Hand Sanitiser Quality Control**

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# CLINICAL & FORENSICS

01

**Shimadzu MS Solutions for Clinical Analysis**

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02

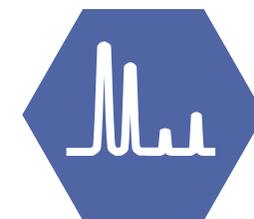
**Shimadzu's new technology and its application: GC-SMCI/DI**

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# CHROMATOGRAPHY

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**Helium vs. Hydrogen: Lifting your chromatography above the res**

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**Analyzing Aromatics in Jet and Diesel Fuels Using LC-RID**

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**On-line pre-column derivatization and UHPLC Analysis of total amino acids in animal deed with microwave digestion for fast sample preparation**

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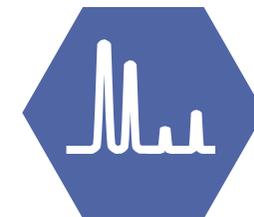
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# CHROMATOGRAPHY

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LC column care and troubleshooting

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HILIC: retention mechanisms and method development

COMING  
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GC column care and troubleshooting

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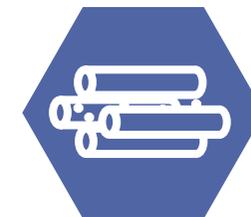
Shimadzu Medicinal Chemistry Solution

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# MASS SPECTROMETRY

**01** Food Contact Materials - GRAS\* or Gross?

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**02** Expanding Material Characterization Capabilities Using Pyrolysis GCMS

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**03** Understand the rationale behind the Q-TOF LC/MS that stably sustains sub-ppm mass accuracy

▶ WATCH NOW

**04** Emerging Water Quality Issues: Are You Ready to Monitor PFAS in your Water?

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**05** The Importance of Ultra Fast Mass Spectrometry for the Analysis of Chemical Hazards in Food & Beverages

▶ WATCH NOW

**06** Panel discussion: the pros and pros of HRMS implementation in quantitative routines

▶ WATCH NOW

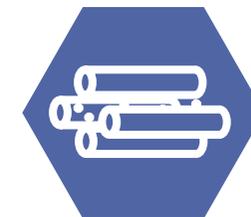
**07** LCMS-9030 Q-TOF for accurate mass measurement in both MS1 and MS2 scan by DDA/DIA approach

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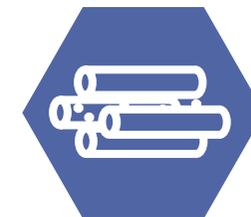
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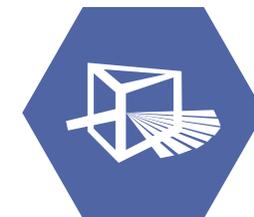
**21** Shimadzu MS Solutions for Clinical Analysis

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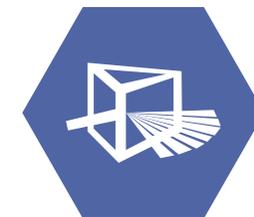
Hand Sanitiser Quality Control

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# CONSUMABLES

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# INFORMATICS

01

Work from home without compromising efficiency

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