

Agilent 7800 ICP-MS



The Solution-Ready Agilent 7800 ICP-MS replaces the highly successful 7700 Series. It combines proven, robust hardware, auto-optimization tools and Pre-set Methods to simplify routine analysis, making your laboratory more productive, and your results more reliable.

Key selling Points:

Feature

Solution-Ready Instrument and workflow simplification

User Friendly MassHunter Software and workflow simplification

HMI and Robust Plasma

4th-Generation ORS (Octopole Reaction System)

Orthogonal detector System (ODS), 10 orders dynamic range

Integrated Sample Introduction System (ISIS 3)

Benefit

Standard Operating Procedures (SOPs) and Sample/QC Report Templates for key applications are included, speeds up implementation.

Wide range of tools are included in the new MassHunter software to simplify method setup. Pre-set Methods and Method Wizard - speeds up method development:

- Simpler sample preparation
- Simpler method setup
- Simpler routine operation

Able to run samples containing 3% TDS, simplify sample preparation:

- No need for dilution
- No need for matrix matching
- Lowest matrix effect and oxide ratio

Provides enhanced polyatomic interference removal when operating under inert Helium collision Mode. No need for correction equations. The new design also offers extremely fast gas switching (<3s) for improved productivity.

Allowing the instrument to measure majors and trace elements (including Hg, As, Se) in a single run reducing analysis time and need for re-analysis of over-range samples.

The Integrated Sample Introduction System (ISIS 3) adds a piston pump and close-coupled 7-port valve for high-speed discrete sampling. This Agilent designed, manufactured and supported loop-injection device reduces sample-to-sample run times. No support from third-party vendors is required and the hardware is fully integrated with MassHunter providing fast and easy optimisation during autotuning.

Target Markets:

- Environmental and Consumer Goods
- Pharmaceutical R&D, QA/QC
- Food
- Energy & Chemicals

Typical Applications:

- Water framework - determination of the content of metals in waters.
- USP 232/233 - ICH Q3D.
- Determination of Trace Elements in Food (Cereal, Milk, Honey, Wine...).
- Trace Elements in Oils, Naphtas.

How to identify target customers:

- Any labs, contract labs that realize routine multi elemental analysis.
- Focus on Enviro, Pharmaceuticals & Food.
- Customers looking at high throughput and lowest running costs.

The Measure of Confidence

Agilent restricted - Internal use only.



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Qualifying Questions:

Do you need a complete solution-ready instrument with the SOP included?
Do you currently do method validation?
Do you know how long it takes to validate methods for your products?
Do you want to improve your productivity?

Competitive Overview:

Competitors

Thermo iCap Q

PerkinElmer NexION 350

Analytik Jena PlasmaQuant MS

Our Advantages

- SOPs available for key applications.
- Efficient interference removal in helium collision mode only (reaction available if required). Superior short- and long-term stability. Low cell gas consumption in comparison to Analytik Jena.
- Fast Switching between different cell modes for highest productivity.
- HMI - Highest matrix robustness to simplify sample preparation and increase throughput, No need to use different matrix dilution accessories like Thermo or PE.
- Easy to use/setup and to maintain mainly against PE and Analytik Jena.
- Robust, fast & sensitive instrument ideal for contract labs.
- Easy to interface with external devices (HPLC, GC, LA...).
- ODS offers lowest background for lowest detection limits & 10 orders Dynamic range.
- High productivity with the ISIS3, Agilent designed and supported.

GOLD Application: Quantitative analysis of liquid samples

- Development of the SOP for the determination of elements in Waters in accordance with the Water Quality Standard Regulations.
- Development of the SOP for the determination of elements in Drugs in accordance with the USP 232/233.

Key Sales Tools:

Brochure
5991-5874EN

Flyer - Drinking Water
5991-5875EN

Flyer - Enviro Waste
5991-5877EN

Flyer - Pharma
5991-5880EN

Flyer - General Metals
5991-5926EN

Applications and Technology Flyers:

The Agilent 7700x/7800 ICP-MS Advantage for Drinking Water Analysis Introduction	5990-4315EN
Using Qualifier Ions to Improve ICP-MS Data Quality for Waste Water Analysis	5990-5890EN
Validating the Agilent 7700x/7800 ICP-MS for the determination of elemental impurities in pharmaceutical ingredients according to draft USP general chapters <232>/<233>	5990-9365EN
7800 ORS 4 and Helium Mode More effective interference removal in complex samples	5990-7574EN
Enhanced Helium Mode Cell Performance for Improved Interference Removal in ICP-MS	5990-7573EN
Plasma Robustness in ICP-MS - Benefits of a low CeO/Ce ratio	5990-8060EN
Successful low level mercury analysis using the Agilent 7800 ICP-MS	5990-7173EN



The Measure of Confidence



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