Elemental Scientific

hydrideICP – Hydride Generation System for ICP

A New Compact Hydride Generation System for ICP with Improved Stability and Performance

ESI's new hydrideICP, a hydride generation system with integrated precision micro peristaltic pump, improves ICP detection limits for hydride-forming elements such as As, Se, and Sb. Sub-ppb levels of such elements are often difficult to detect with ICP, but hydrideICP converts hydride-forming elements to gas, increasing signal intensity. In a low-volume quartz gas-liquid separator (GLS) hydrides are separated from liquid waste then carried to the ICP injector. The hydrideICP system can increase ICP sensitivity by an order of magnitude or more over a nebulizer-only system.

Benefits:

- Improved detection limits for As, Se, Sb and other hydride-forming elements.
- Improved stability

 MP^2 Micro peripump creates a stable flow of sample and reagent, producing a stable formation of H_2 gas and hydrides.

Compact

hydrideICP is the smallest system of its kind on the market. (95mm x 118mm x 140mm)

- Chemically Resistant Construction Micro peripump with ceramic pins PFA mixing block Quartz GLS
- Convenient

hydrideICP, including PFA mixing block, is completely integrated into the MP² pump.

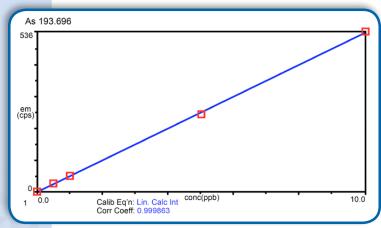
The hydrideICP is available with 4 or 6 channels. The 4-channel version is for basic hydride formation, and the 6-channel version allows the user to add an internal standard, such as Bi.

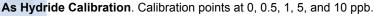
C	Part Number	Description
	HG-MP2-4-A	Hydride generation system, including MP ² 4 channel precision micro peristaltic pump and gas-liquid separator.
	HG-MP2-6-A	Hydride generation system, including MP ² 6 channel precision micro peristaltic pump and gas-liquid separator and internal standard tee.

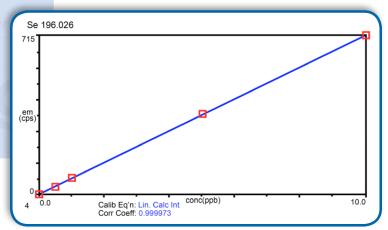
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MP² hydrideICP Generation System







Se Hydride Calibration. Calibration points at 0, 0.5, 1, 5, and 10 ppb.

E S T

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