

## ABSTRACT

A laser ablation ICP analysis method in which an analysis sample is irradiated with a laser beam to atomize the analysis sample, thus generating an aerosol of the analysis sample, and the aerosol of the analysis sample is recovered, and is subjected to an inductively coupled plasma mass analysis. The method includes: disposing a non-hermetically sealed chamber with an opening of a bottom plate of the non-hermetically sealed chamber, which includes a glass window located on the side opposite to the opening and is made of a quartz, located proximate to the surface of the analysis sample; introducing a chamber-use inert gas into the non-hermetically sealed chamber to bring an inside of the non-hermetically sealed chamber into an atmosphere of the chamber-use inert gas, and causing the chamber-use inert gas to leak from the opening; performing laser beam irradiation toward the opening to generate the aerosol of the analysis sample; and discharging the aerosol of the analysis sample from the inside of the non-hermetically sealed chamber together with the chamber-use inert gas by suction from an ejector, a nebulizer, or a vacuum pump for the inductively coupled plasma mass analysis.

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