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摘要：本文综述高效液相色谱-电感耦合等离子体质谱（HPLC/ICP-MS）的最新进展，讨论HPLC/ICP-MS的原理和优点，同时对样品中微量元素及形态研究等领域的应用进行分析总结，并指出现存的主要问题、探讨解决的方案及对未来的展望和总结。

关键词：HPLC/ICP-MS 联用技术,微量元素,形态,综述

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## Application of HPLC/ICP-MS in the research of trace element speciation\*

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Abstract: Recent progress of high performance liquid chromatography combined with inductively coupled plasma mass spectrometry (HPLC/ICP-MS) was reviewed, then the principles and advantages of HPLC/ICP-MS instruments were discussed. Meanwhile, the application of trace elements' speciation was summarized in the studies. Also, the main problems with HPLC/ICP-MS and the solutions available were outlined, and the prospect of HPLC/ICP-MS is very bright. 30 references were cited.

Key words: HPLC/ICP-MS, hyphenated analytical technique, Trace element, Speciation, Review

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