



**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国出入境检验检疫行业标准

SN/T 2208-2008

**Determination of sodium, magnesium, aluminium, calcium, chromium,
iron, nickel, copper, zinc, arsenic, strontium, molybdenum, cadmium,
lead, mercury, selenium in aquatic products-Microwave digestion-ICP/MS
method**

**水产品中钠、镁、铝、钙、铬、铁、镍、铜、锌、砷、
锑、钼、镉、铅、汞、硒的测定
微波消解-电感耦合等离子体-质谱法**

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and Quarantine of the People's Republic of China**

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Foreword

Annex A, annex B and annex C of this Standard are informative annex.

This Standard is proposed and under the jurisdiction of by Certification and Accreditation Administration of the People's Republic of China

The responsible drafting organization is Liaoning Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China.

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This standard is Entry-Exit Inspection and Quarantine Industry Standard issued for the first time.

**Determination of sodium, magnesium, aluminium, calcium, chromium,
iron, nickel, copper, zinc, arsenic, strontium, molybdenum, cadmium,
lead, mercury, selenium in aquatic products-Microwave digestion-ICP/MS
method**

1 Scope

The Standard specifies the determination of sodium, magnesium, aluminium, calcium, chromium, iron, nickel, copper, zinc, arsenic, strontium, molybdenum, cadmium, lead, mercury, selenium in aquatic products-Microwave digestion-ICP/MS method.

The Standard applies to the determination of sodium, magnesium, aluminium, calcium, chromium, iron, nickel, copper, zinc, arsenic, strontium, molybdenum, cadmium, lead, mercury, selenium and other elements contained in fish, shellfish and algae.

2 Method summaries

After the sample is pre-digested by nitric acid hydrogen peroxide, then put it into microwave digestion furnace, digest the sample according to the set procedures, dilute the digestion solution to a certain volume, and directly determine ICPMS. The content of 16 microelements in the sample shall be determined based on quantitative relation between mass-to-charge ratio and its concentration.

3 Reagents and materials

Unless otherwise specified, all the used reagents shall be guarantee reagent, and the experiment water shall be ultrapure water with conductivity greater than or equal to 18.2MΩ/cm.

3.1 Nitric acid: Guarantee reagent.

3.2 Hydrogen peroxide: Guarantee reagent.

3.3 Nitric acid solution (1+19, Volume ratio): Take 50mL of nitric acid (3.1) and add it into 950mL of ultrapure water.

3.4 Nitric acid solution (1+5, Volume ratio): Take 50mL of nitric acid (3.1) and add it into 250mL of ultrapure water.

3.5 Tuned liquid (Li, Y, Ce, T1, Co): 10μg/L, Agilentpart # 5184 3566 or equivalent.

3.6 Multielement standard stock solution: The concentration of Na, Mg, Ca, Fe is



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