

Measurement of Heavy metals

[SJ-MM-033]

2013-06-12
REV.0

Quality Assurance

Test method

1. Input 0.2g of sample into vessel and add 7ml of nitric acid and 3ml of hydrofluoric acid.
2. Dissolve 1) with microwave.
3. Do visual check if the sample is fully melted into.
4. Dilute with adding 50g of distilled water into completed preprocessed sample.
5. Make a standard sample for measuring contents (ex: 0.1ppm, 0.5ppm, 1ppm, 5ppm, 10ppm) and make out the calibration curve.
6. Measure the heavy metal(Pb, As, Cd, Sb, Hg) with diluted sample by ICP machine.
7. You can get the measured value after converting with dilution rate.

◆ Condition of preprocess	
POWER	1030 ~ 1800
RAMP TIME	20:00 ~ 25:00
HOLD TIME	15:00
TEMPERATURE	180°C

Equipment



MICROWAVE (CEM MARS 6)



ICP-OES (AGILENT TECHNOLOGY 700 SERIES)