

MODEL: P-25

SEALD DECOMPOSITION VESSEL FOR MICROWAVE OVEN

Usage example 1

Sample: Dry rice flour NES-CRM No.10

8 sample

1. 100 mg of powdered sample measure into the PFA Internal Small Bottle (Model: DV-7).
2. Add 2.0 ml of concentrated nitric acid, 0.3 ml of 60% perchlorate, 0.15 ml of 6M hydrochloric acid and 0.15 ml of concentrated hydrofluoric acid.
3. Close the DV-7 lid and rotate the bottle, a powder sample is completely dispersed in mixed acid.
4. Loosen the DV-7 lid slightly, install in the PTFE Inner Vessel (Model: PT-25). Then, put 1.5 ml of distilled water around it.
5. PT-25 is loaded into the Polypropylene Outer Cylinder (Model: PP-25), tighten and seal with a tool.
6. P-25 and the beaker which 50 ml of water entered are set up by a microwave oven.
7. 200W – 5 minutes irradiate it with a microwave oven.
8. Take out a beaker and irradiate 200W – 5 minutes again.
9. Take out the P-25 and spontaneously cool it for five minutes.
10. Open the P-25 with wrench and vice.
11. Take out DV-7 and open it.
12. On a hot plate, evaporation to dryness a sample.
13. Add 1 ml of 0.1M perchloric acid and dissolve while warming the sample.
14. Measure the gross weight of DV-7 and calculate the weight of the sample solution.
15. Redilute the sample solution according to the target metal content.
16. Measure it by various analysis methods.

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