

APPLICATION NOTE MW-114

CLOSED VESSEL DIGESTION

Sample	Soil
Type of Vessel	HP/VHP Vessels and TFM Liners
Number of Vessels	Up to 10
Reagents	6 mL Concentrated HNO ₃ , 3mL HCL, 2ml HF
Sample Weight¹:	0.5 grams

Procedure

- Place 0.5 grams of the sample into the liner of each vessel
- Add 6 ml of concentrated HNO₃, 3ml HCL, and 2mL of HF to each vessel inside the fume hood and allow the sample to outgas before sealing the vessels.
- Load the vessel carousel into the microwave digestion oven and run digestion program as follows:

Digestion Program

Step	Time/s	Starting Temp/C°	Ending Temp/C°
1	240	45	130
2	240	130	180
3	600	180	200

- After the digestion, let the samples cool down and then, open each vessel in the fume hood.
- This procedure is a starting point for sample digestion using Aurora's Microwave Digestion System and may need to be modified or changed to obtain the required results on your sample.

