



Procedure

Weigh 1 g of the sample into the digestion vessel. Add 10 mL HNO₃ and 2 mL HF. Gently swirl the mixture and wait approximately 15 minutes before capping the vessel.

Notes

Some plant tissues contain silicates which would require HF for total dissolution.

Recommended Equipment

Discover SP-D 80

Recommended Vessels

80 mL Quartz with Teflon liner

Reagents

HNO₃
HF

Max Sample Weight

1.0 g

Sample Type / Vent Program

Organic

Control Type

Ramp to Temperature

Heating Program

Stage	Temp (°C)	*Ramp (mm:ss)	Hold (mm:ss)	Pressure (psi)	* Power (W)	Stirring
1	200	5:00	5:00	400	300	Med

* Ramp times and power may vary depending on the type and number of vessels.

Results

Sample was clear, colorless, and particle free upon dilution to 50 mL.

General Precaution

- This procedure is a reference point for sample digestion using a CEM system and may need to be modified or changed to obtain the required results on your sample.
- If using a vessel other than the recommended choice, adjust sample size and pressure limit to values appropriate for the vessel chosen.
- If using HF, follow restrictions listed in HF Addendum