



### Procedure

Weigh 0.5 g of the sample into the digestion vessel. Add 5 mL HNO<sub>3</sub>, 3 mL HCl, and 3 mL HF. Gently swirl the mixture and wait approximately 15 minutes before capping the vessel.

### Notes

This procedure uses hydrofluoric acid. If it is necessary to complex the residual hydrofluoric acid or redissolve insoluble fluorides formed, an additional complexation step with boric acid should be used. This procedure can be found in the One Touch Method note entitled "Boric Acid HF Neutralization".

The addition of Conc. HCl (0-4 mL) is appropriate for the stabilization of Ag, Ba and Sb, and high concentrations of Fe and Al in solution. The amount of HCl will vary depending on the matrix and the concentration of the analytes. The addition of HCl may, however, limit the techniques or increase the difficulties of analysis.

### Recommended Equipment

Discover SP-D 80

### Recommended Vessels

80 mL Quartz with Teflon liner

### Reagents

HNO<sub>3</sub>  
HCl  
HF

### Max Sample Weight

0.5 g

### Sample Type / Vent Program

Inorganic

### 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	3:00	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