



### Procedure

Weigh 0.5 g of the sample into the digestion vessel. Slowly add 2 mL of HNO<sub>3</sub>, and 7 mL of HF. Gently swirl the mixture before closing the vessel.

### Notes

Add HF slowly, and allow vessels to stand in the fume hood until the initial reaction subsides.

The above 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 HF Neutralization"

Reducing the particle size increase the efficiency of digestion and may decrease the digestion time.

### Recommended Equipment

MARS 6  
MARS 6 iWave

### Recommended Vessels

EasyPrep  
EasyPrep Plus

### Reagents

HNO<sub>3</sub>  
HF

### Max Sample Weight

0.5 g

### Sample Type

Organic

### Control Type

Ramp to Temperature

### Method Type

One Touch

### Heating Program

Stage	Temp (°C)	*Ramp (mm:ss)	Hold (mm:ss)	Pressure (psi)	* Power (W)	Stirring
1	220	20:00	20:00	800	900-1050	Off

\* 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.
- The control / reference vessel must contain the largest and most reactive sample.
- Manual venting of CEM vessels should be performed when wearing hand/eye/body protection and when the vessel contents are at or below room temperature to avoid the potential for chemical burns. Always point the vent hole away from the operator.
- If programming as One Touch, the ramp time and power will be automatically determined based on the number and type of vessels detected.