



### Procedure

Weigh 50 mg of the sample into the digestion vessel. Insert stir bar into the vessel. Add 4.5 mL H<sub>2</sub>SO<sub>4</sub> and 4.0 mL HNO<sub>3</sub> to the vessel, then add 1.5 mL H<sub>2</sub>O<sub>2</sub> dropwise. Gently swirl the mixture and wait approximately 15 minutes before closing the vessel.

### Notes

This application can only be run in the iPrep vessel.

Stirring is required for complete dissolution of this sample type.

### Recommended Equipment

MARS 6 iWave

### Recommended Vessels

iPrep

### Reagents

H<sub>2</sub>SO<sub>4</sub>  
HNO<sub>3</sub>  
H<sub>2</sub>O<sub>2</sub>

### Max Sample Weight

50 mg

### Sample Type

Standard

### Control Type

Ramp to Temperature

### Method Type

Classic

### Heating Program

Stage	Temp (°C)	*Ramp (mm:ss)	Hold (mm:ss)	Pressure (psi)	* Power (W)	Stirring
1	270	30:00	45:00	N/A	900-1800	Med

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

### Results

Sample was clear and 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.
- 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.