

Step 1 of 2

Procedure

Weigh 0.5 g of the sample into the digestion vessel. Add 9 mL of HNO_3 and 1 mL of HF. Gently swirl the mixture and wait approximately 15 minutes before closing the vessel.

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

Notes

This application can only be run in the iPrep vessel.

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 or other neutralization step should be used. This procedure can be found in the One Touch Method note entitled "Boric Acid HF Neutralization".

Recommended Equipment	Recommended Vessels	Reagents
MARS 6 iWave	iPrep	HNO3 HF

Max Sample W	/eight	Sample Type		Control Type	Method Type		
0.5 g		Organic		Ramp to Temperature	One Touch	One Touch	
Heating Progra	am						
Stage	Temp (°C)	*Ramp (mm:ss)	Hold (mm:s	s) Pressure (psi)	* Power (W)	Stirring	
1	250	30:00	30:00	N/A	700-1800	Off	

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



MARS 6™ Method Note

Step 2 of 2

Procedure

Allow vessels to cool. Open and add 2 mL H₂O₂ (30%) dropwise. Wait approximately 15 minutes before closing the vessel.

Notes

Reagents

H₂O₂ (30%)

Sample Type		Control 1	Гуре	Me	Method Type		
Organic		Ramp to	Temperature	One Touch			
Heating Progra	am						
Stage	Temp (°C)	*Ramp (mm:ss)	Hold (mm:ss)	Pressure (psi)	* Power (W)	Stirring	
1	210	30:00	30:00	N/A	700-1800	Off	

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

Results

Sample was clear and colorless upon dilution to 50 mL.

General Precaution

a) 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.

b) If using a vessel other than the recommended choice, adjust sample size and pressure limit to values appropriate for the vessel chosen.
c) 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.

d) If programming as one touch, the ramp time and power will be automatically determined based on the number and type of vessels detected.