



Step 1 of 2

Procedure

Weigh 0.5g of the sample into the digestion vessel. Add 10 mL HNO₃. Gently swirl the mixture and wait approximately 15 minutes before closing the vessel

Notes

Cryolite / Electrolytic Bath is approximately 55% Cryolite (Na₃AlF₆) and 30% Chiolite (Na₅Al₃F₁₄).

Recommended Equipment

MARS 6
MARS 6 iWave

Recommended Vessels

EasyPrep
EasyPrep Plus

Reagents

HNO₃

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	200	15:00	15:00	800	900-1800	Off

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



Step 2 of 2

Procedure

Allow vessel to cool after completion of Step 1. Open and add 30 mL of Deionized Water and 2 g Boric Acid (solid). Gently swirl the mixture and seal the vessel.

Notes

Reagents

DI H₂O
Boric Acid (solid)

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	175	15:00	15:00	800	900-1800	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

- 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) The control / reference vessel must contain the largest and most reactive sample.
- d) 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.
- e) If programming as one touch, the ramp time and power will be automatically determined based on the number and type of vessels detected.