



### Procedure

Weigh 0.25 g of the sample into the disposable insert. Add 10 mL of HNO<sub>3</sub>. Gently swirl the mixture and wait approximately 15 minutes before adding the insert into the TFM vessel and closing.

For MARSXpress 75 mL - add 1.5 mL of 30% H<sub>2</sub>O<sub>2</sub> to the TFM vessel prior to adding the insert.

For MARSXpress Plus - add 3 mL of 30% H<sub>2</sub>O<sub>2</sub> to the TFM vessel prior to adding the insert.

### Notes

This method is intended to be run using either MARSXpress 75 mL TFM vessels with glass or quartz inserts or MARSXpress Plus TFM vessels with glass inserts.

Disposable digestion glass or quartz inserts can only be used in the TFM version of the MARSXpress vessels and MARSXpress Plus vessels. This application can only be used in an iWave system.

To use the disposable inserts, it is required to use 30% H<sub>2</sub>O<sub>2</sub> in the TFM MARSXpress and MARSXpress Plus vessels.

### Recommended Equipment

MARS 6 iWave

### Recommended Vessels

75 mL MARSXpress w/Glass or Quartz  
Insert  
MARSXpress Plus w/Glass Insert

### Reagents

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

### Max Sample Weight

0.25 g

### Sample Type

Digestion Glass

### 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	190	20:00	15:00	N/A	290-1800	Off

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

### Results

Samples 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.
- 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.