

APPLICATION NOTE MW-104

CLOSED VESSEL DIGESTION

Sample	Tea Leaf
Type of Vessel	HP/VHP Vessels and TFM Liners
Number of Vessels	Up to 10
Reagents	8 mL HNO ₃
Sample Weight¹:	0.2 grams Tea leaf

Procedure

- Place 0.2 grams of the sample into the liner of each vessel
- Add small amount of water to wet the sample
- Add 8 ml of concentrated HNO₃ to each vessel inside the fume hood and allow the sample to outgas before sealing the vessels.
- Pre-heat on the thermal plate at about 50°C for 10 min.
- Load the vessel carousel into the microwave digestion oven and run digestion program as follows:

Digestion Program

Step	Time/s	Starting Temp/C°	Ending Temp/C°
1	300	37	100
2	300	100	180
3	600	180	185
4	0	185	0

- After the digestion, the solution should be clear in slight green color.
- Add 1.5 ml of H₂O₂ to each vessel and shake it well until it become colorless

NOTE: This procedure is a reference point for sample digestion using the Aurora Microwave digestion system and may need to be modified or changed to obtain the required results on your subject.

www.aurora-instr.com

