

## **APPLICATION NOTE MW-113**

### **CLOSED VESSEL DIGESTION**

<b>Sample</b>	Fertilizer
<b>Type of Vessel</b>	HP/VHP Vessels and TFM Liners
<b>Number of Vessels</b>	Up to 10
<b>Reagents</b>	9 mL Concentrated HNO <sub>3</sub> , 1mL HCL
<b>Sample Weight<sup>1</sup>:</b>	0.5 grams

#### **Procedure**

- Place 0.5 grams of the sample into the liner of each vessel
- Add 9 ml of concentrated HNO<sub>3</sub>, and 1ml HCL to each vessel inside the fume hood and allow the sample to outgas, before sealing the vessels.
- 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	240	39	130
2	240	130	180
3	600	180	180

- After the digestion, let the samples cool down and then, open each vessel in the fume hood.
- This procedure is a starting point for sample digestion using Aurora's Microwave Digestion System and may need to be modified or changed to obtain the required results on your sample.

