

## **Metabolite: Isolation from xylem**

### **Supplies and Reagents:**

Methanol  
Water  
SIL stock

### **Important Notes:**

SIL stock are separated in two kinds: non-CoA and CoA cocktail

### **Protocol:**

#### **Non-CoA compounds extraction**

1. Weight out 50 mg xylem into a prechilled 2 ml microcentrifuge tube.
2. Add water (1 ml) and the synthesized SIL (50 ul).
3. Vigorously vortexed for 3 min.
4. Heat at 60 C for 10 min
5. Centrifuge at 10,000 g for 10 min at room temperature
6. Separate the supernatant (1) from the tube
7. Freeze dry the supernatant
8. Add 0.5 ml methanol to the microcentrifuge tube
9. Vigorously vortexed for 3 min.
10. Heat at 60 C for 10 min
11. Centrifuge at 10,000 g for 10 min at room temperature
12. Separate the methanol extracts from the tube
13. Evaporate the methanol

#### **CoA compounds extraction**

1. Weight out 50 mg xylem into a prechilled 2 ml microcentrifuge tube.
2. Add water (1 ml) and the synthesized SIL (50 ul).
3. Vigorously vortexed for 3 min.
4. Keep the tube in the room temperature for 10 min
5. Centrifuge at 10,000 g for 10 min at room temperature
6. Separate the supernatant (1) from the tube
7. Freeze dry the supernatant