

Phase 1

Storage container testing

1

Dry air test

2

Isotopic reference test

1. 250 mL infusion glass bottles
2. 500 mL Aluminum-zip bag
3. 1 L FlexFoil® sample bag

Storage Conditions

Time: 6 h, 1 and 3 d
Temperature: 40, 20-25 and 4 °C

**Optimal
Container**

Decision:
Container with
the highest score

Decision criteria:

1. Isotopic stability
2. Tightness
3. Time to analysis
4. Reusability
5. Portability and transport
6. Cost

Phase 2

Sampling procedure testing

3

Dry air test

Syringes

0.80x40 and 80 mm
1.20x40 and 80 mm

4

Flow rate test

35 mL/min
75 mL/min
100 mL/min
125 mL/min

3 Isotopic references

Storage Conditions

Time: 6 h, 1, 3 and 7 d
Temperature: 40, 20-25 and 4 °C