

**Application field: Gold**

**Summary**

This method provides for the acid digestion of gold sample using LabTech digiblock digester.

**Equipment**

LabTech digiblock digester ED36S-iTouch and digestion tube (PTFE)

**Reagent**

1. HCl: AR
2. HNO<sub>3</sub>: AR
3. HF: AR
4. HClO<sub>4</sub>: AR

**Procedure**

1. Add 0.2g sample, 3ml HNO<sub>3</sub>, 9ml HCL, 3ml HF and 0.5ml HCLO<sub>4</sub> to digestion tube in sequence and cover the tube.
2. Insert the digestion tube into the cavity of digiblock digester.
3. Setting the temp. of digester to 110°C and hold 100 min.
4. Set the temp. of digester at 180°C and hold 40 min. Evaporate HCLO<sub>4</sub>, HCL and HF. Continuously heating till the solution is approx. 1~2ml. The sample has been digested totally.

**Notes**

Appropriate digestion time and acid proportion are both important for good digestion result due to the component are various in different samples.

LabTech digiblock digester can precisely control the digestion temperature and provide high sample-to-sample uniformity. It's a kind of easy and simple way to digest multiple samples.