The S-isotope composition (δ^{34} S) is determined by SO₂ EA-combustion-IRMS method. The measurement was performed by The GV Isoprime isotope ratio along with the Eurovector Elemental mass spectrometer Analyser (EuroEA3028-HT) in the Center for Stable Isotope Biogeochemistry (CSIB) at Department of Integrative Biology, University of California at Berkeley. The amount of bulk powder samples containing as small as 5 µg sulfur or pure sulfate/sulfide samples are thermochemically decomposed with copper wires at 1020°C to yield SO₂ gas for sulfur isotope analyses. Certain quantities of H₂O and CO₂ are also produced during this conversion depending on the sample natures. H₂O is removed by passing through a Mg(ClO₄)₂ trap, while CO₂ is eluded out through a dilutor. Several replicates of one international standard NBS127 and two lab standards were measured along with samples in each batch run for the data calibration and quality control. The external analytical precision is better than 0.2‰ for δ^{34} S.