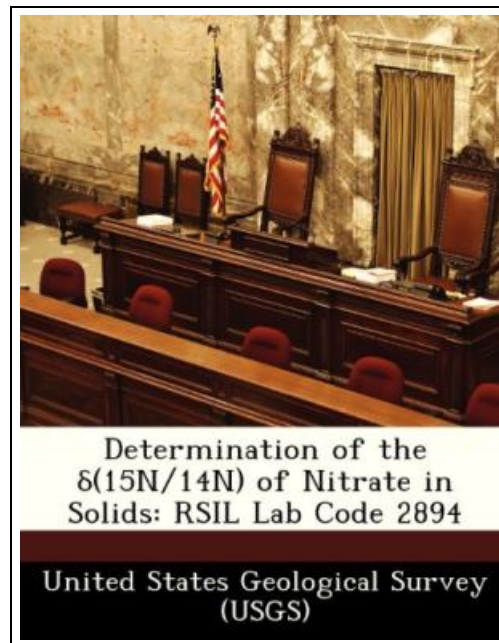


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DETERMINATION OF THE (15N14N) OF NITRATE IN SOLIDS: RSIL LAB CODE 2894



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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 38 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The purpose of Reston Stable Isotope Laboratory (RSIL) lab code 2894 is to determine the (15N14N), abbreviated as 15N, of nitrate (NO₃⁻) in solids. The nitrate fraction of the nitrogen species is dissolved by water (called leaching) and can be analyzed by the bacterial method covered in RSIL lab code 2899. After leaching, the 15N of dissolved NO₃⁻ is analyzed by conversion of NO₃⁻ to nitrous oxide (N₂O), which serves as the analyte for mass spectrometry. A culture of denitrifying bacteria is used in the enzymatic conversion of NO₃⁻ to N₂O, which follows the pathway shown in equation 1. Because the bacteria *Pseudomonas aureofaciens* lacks N₂O reductive activity, the reaction stops at N₂O, unlike the typical denitrification reaction, which goes to N₂. After several hours, the conversion is complete, and the N₂O is extracted from the vial, separated from water vapor by Nafion drier and from CO₂ with a layered Mg(ClO₄)₂Ascarite trap, and trapped in a small-volume trap immersed in liquid nitrogen. After the N₂O is released, it is further purified by gas chromatography (GC) before introduction to the isotope-ratio mass spectrometer (IRMS). The IRMS is a Finnigan DeltaPlus continuous flow IRMS (CF-IRMS). It has a universal triple collector, consisting of two wide cups with a narrow cup in the middle; it is capable of simultaneously measuring masscharge (m/z) of the N₂O molecule 44, 45, and 46. The ion beams from these m/z values are as follows: m/z 44 N₂O 14N14N16O; m/z 45 N₂O 14N15N16O or 14N14N17O; m/z 46 N₂O 14N14N18O. The 17O contributions to the m/z 44 and m/z 45 ion beams are accounted for before 15N values are reported. This item ships from La Vergne, TN. Paperback.



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