

The analysis of trace elements included for leaf and petiole of field horseradish of Sawauchi village-made

¹⁾F. Ojima, C. Kobayashi, ²⁾J. Ito, ³⁾K. Sera

¹⁾ Moriokadaigaku Junior College
808 Sunagome, Takizawa, Iwate 020-0183, Japan

²⁾ Nishina Memorial Cyclotron Center, Japan Radioisotope Association
348-58 Tomegamori, Takizawa, Iwate 020-0173, Japan

³⁾ Cyclotron research Center, Iwate Medical University
348-58 Tomegamori, Takizawa, Iwate 020-0173, Japan

Abstract

Iwate Prefecture has the vastitude hilly area with the cool climate suitable for the field horseradish cultivation, and a field horseradish output is the domestic second. There is the plan that this field horseradish will be produced even in the Sawauchi village. Then, it tried to compare field horseradish Iwaizumi-made and trace element in the field horseradish of the Sawauchi village spontaneous by the PIXE analysis, because main home of field horseradish in Iwate prefecture was the Iwaizumi town. Appearance, especially size are different on two kinds of field horseradishes for the analysis without also relating to the result of cultivating in the almost equal land in the Sawauchi village. The result of the PIXE analysis showed that large difference was not in the trace element concentration, as it is more different for both field horseradishes on the appearance. And, it was proven that both field horseradishes did not contain the noxious component.