**Supplementary material**

**Extraction of Cs bound with biotite by addition of oxalic acid without heating**

Yasuhiro Akemoto1, 2\*, Seira Takahashi1, Toko Iwamura1, Masahiko Kan3 and Shunitz Tanaka1, 4, 5\*

**Table S1** Characteristic of biotite in this study.

|  |  |
| --- | --- |
| Chemical component | wt% |
| SiO2  Al2O3  TiO2  Fe2O3  MgO  CaO  K2O | 50.3  21.5  2.2  8.9  9.9  1.4  5.8 |

**Desorbed elements from biotite**



**Fig. S1** Desorption rate of elements at each leaching time from biotite by (a) 1.0 mol/L LiNO3 and (b) 0.1 mol/L oxalic acid; Symbols, purple triangle was Fe, blue circle was Mg, red square was Al, and green rhombus was Si, respectively