


実験報告書様式(一般利用課題・成果公開利用)

(※本報告書は英語で記述してください。ただし、産業利用課題として採択されている方は日本語で記述していただいても結構です。)

 MLF Experimental Report	提出日 Date of Report Sep 14, 2013
課題番号 Project No. 2013A0043 実験課題名 Title of experiment Determination of heavy metal concentrations in loquat leaves used as a herbal remedy. 実験責任者名 Name of principal investigator Yukio Yoshizawa 所属 Affiliation The Jikei University School of Medicine	装置責任者 Name of responsible person Yosuke Toh 装置名 Name of Instrument/(BL No.) BL-4 実施日 Date of Experiment From May 23, 2013 to May 24, 2013

試料、実験方法、利用の結果得られた主なデータ、考察、結論等を、記述して下さい。(適宜、図表添付のこと)
 Please report your samples, experimental method and results, discussion and conclusions. Please add figures and tables for better explanation.

1. 試料 Name of sample(s) and chemical formula, or compositions including physical form. 1. dried leaf powder 2. Cadmium selenide (CdSe) 3. Wood's metal (50% bismuth, 26.7% lead, 13.3% tin, and 10% cadmium by weight)

2. 実験方法及び結果 (実験がうまくいかなかった場合、その理由を記述してください。) Experimental method and results. If you failed to conduct experiment as planned, please describe reasons. Methods: We harvested the loquat leaves and dry them well, then grind into powder. The sample was packed with fluorinated ethylene propylene (FEP). Cadmium selenide and Wood's metal were used as standard. Concentrations of metals in loquat leaves and standard samples are analyzed using ANNRI. Results: On-site analysis shows no peak in loquat leaves except Al-26 that is background of the facility. However, the huge data obtained by the experiment must need further detailed analysis. Unfortunately, we could not complete our experiments by the cancelation of assigned beamtime of MLF. I'm afraid it is impossible to report anything at this moment.

2. 実験方法及び結果(つづき) Experimental method and results (continued)