

## Penentuan unsur impuritas dalam serbuk U<sub>3</sub> Si<sub>2</sub> dengan menggunakan alat ICPS

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=128948&lokasi=lokal>

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### Abstrak

Element impurity determination in U<sub>3</sub> Si<sub>2</sub> powder by using ICPS equipment, the analysis of trace elements in U<sub>3</sub> Si<sub>2</sub> powder (Al, B, Cd, Co, Cu, Fe, Ni, Li, Zn) has been done by using ICPS. The aim of this activity is to get the data support or comparator in verification between work is to verify the trace elements content quantitatively in U<sub>3</sub> Si<sub>2</sub> powder and to verify its specification toward the required standard specified by IAEA. Sample preparation is carried out by dissolving of 1 g U<sub>3</sub> Si<sub>2</sub> powder, in HNO<sub>3</sub> 6M, then filtered and extracted with TBP / Hexane (7:3). Result of analysis, indicate that all metal element (Al, B, Cd, Co, Cu, Fe, Ni, Zn, Li) which is required in nuclear fuel element specification, can be detected quality....