

Penentuan unsur impuritas dalam serbuk U₃ Si₂ dengan menggunakan alat ICPS

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

Abstrak

Element impurity determination in U₃ Si₂ powder by using ICPS equipment, the analysis of trace elements in U₃ Si₂ 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 U₃ Si₂ powder and to verify its specification toward the required standard specified by IAEA. Sample preparation is carried out by dissolving of 1 g U₃ Si₂ powder, in HNO₃ 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....