

Showcasing research from Professor Li Shen's laboratory, Tianjin Key Laboratory of Quantum Optics and Intelligent Photonics, School of Science, Tianjin University of Technology, Tianjin, China.

Traceability of cold medications with similar ingredients based on laser-induced breakdown spectroscopy

The quality and safety of medications are directly related to the personal health of the user. In this study, the combination of laser-induced breakdown spectroscopy (LIBS) with t-distributed stochastic neighbour embedding (t-SNE) and back propagation neural network (BPNN) was proposed for classification and traceability of cold medications with same main ingredient, compounded paracetamol and amantadine hydrochloride. The results show that LIBS combined with t-SNE and BPNN provides assistance in drug classification as well as traceability.



