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Identification of Chemical Compounds in Moringa Folium Resulting Microwave-Assisted Extraction, Ultrasound-Assisted Extraction and Reflux Extraction Using Routine Standards

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ABSTRACT

Extraction has been carried out from Moringa folium using Microwave-Assisted Extraction (MAE), Ultrasound-Assisted Extraction (UAE), and Reflux Extraction (RE) methods. Moringa Folium has many uses, including as a chemopreventive agent. In this research, identification was carried out to determine the compounds in Moringa folium. Extraction uses the MAE and Reflux methods. The extraction results were identified by TLC and HPLC using routine standards. The identification results showed that the Moringa folium spectra were similar to the routine spectra. The extraction results show that the UAE method contains more routine.

Keywords: Microwave-Assisted Extraction (MAE), Ultrasound-Assisted Extraction (UAE)