

The Agilent 5100/5110 ICP-OES is a viable tool for elemental profiling of various types of whiskies. The instrumental design allowed for fast and easy analysis of the samples with low detection limits for each measured element. Analysis of the spikes showed the method was precise and accurate. The preliminary data analysis of the whiskies showed that element compositions could possibly be used to differentiate samples based on age, type, and region. Further research is needed, with collaboration from the industry, to fully understand the degree element profiles can be used in whiskey research.