ABSTRACT

METHOD FOR ANALYZING MIXTURE COMPONENTS

The present invention relates to a method for analyzing mixture components, comprising: (1) separating a mixture sample by using chromatographic technology, to obtain a preliminary chromatogram; (2) sampling as required any one interval in the preliminary chromatogram obtained in step (1), to obtain a series of spectrograms in different retention times, which are referred to as compound spectrograms; (3) performing calculation, by using a series of methods of an entropy minimum algorithm, in the mixture spectrograms obtained in step (2), to obtain each reconstructed pure spectrum and a corresponding pseudo concentration thereof. The method combines the chromatographic technology and the entropy minimum algorithm, and overcomes dependence on component separation in an existing analysis method, making separation not important any more. There is no need to completely separate each component in the mixture. Meanwhile, a prerequisite for using the entropy minimum algorithm is met. The method is universal, fast, and highly efficient, requires low costs, does not have high requirements on personnel, and has a great application prospect.

FIG. 1