

ABSTRACT

The present invention provides a method and system for collecting fluorescence spectral data by ultraviolet light, and a medium. The method includes: ultraviolet light irradiation: irradiating a first area by the ultraviolet light with a wavelength of 300–390
5 nm; signal collection: obtaining a fluorescence radiation signal that comprises the fluorescence spectral data and that is emitted by the first area when excited, and performing imaging, to obtain an image; and spectral data collection: selecting a data collection point from the image, substituting a grayscale value of the data collection point into a spectrum reconstruction algorithm, and obtaining the fluorescence spectral
10 data through calculation, where a peak value of a spectral line of the fluorescence spectral data is within 400–800 nm. According to the technical solution in this application, peaks of spectral data of different analytes can be kept within a recognizable range of an imaging spectral detection apparatus.

15 [Fig. 1]