

ABSTRACT

Title of Invention: CAPILLARY ELECTROPHORESIS DEVICE AND CAPILLARY ELECTROPHORESIS METHOD

Provided is a capillary electrophoresis device for injecting a sample containing a first component and a second component into a capillary, separating the injected first component and the injected second component by electrophoresis, and measuring, by a detector, light emission from the first component and light emission from the second component, which are induced by irradiating the capillary with light, to acquire a signal intensity of the first component and a signal intensity of the second component, in which a concentration range of the first component contained in the sample includes, in addition to a concentration range in which the signal intensity of the first component is proportional to a concentration of the first component, a concentration range in which the signal intensity of the first component is lower than a saturation signal intensity of the detector and is not proportional to the concentration of the first component and reaches the saturation signal intensity, and the capillary electrophoresis device quantifies a ratio of the concentration of the first component to a concentration of the second component in the sample based on a ratio of the signal intensity of the first component to the signal intensity of the second component.

Figure 8