

LUMINESCENCE MEASURING APPARATUS AND MICROBE COUNTING APPARATUS

ABSTRACT

5 The present invention relates to a luminescence measuring apparatus for detecting, at high sensitivity and high accuracy, chemoluminescence and bioluminescence of a substance contained in a sample. Specifically, the present invention provides an apparatus for measuring an amount of luminescence in a sample, comprising: a container for the sample; a photodetector for detecting luminescence from the container; and at least one optical filter inserted between the photodetector and the container, and/or a pH modifier added to the container, wherein the photodetector performs
10 measurement of light emitted from the container at all wavelength regions and spectrometry at a specific wavelength range, and/or measurement of light, the intensity of which is changed by the pH modifier. The present invention also relates to a microbe counting apparatus based on luminescence detection of ATP in a viable microbial cell.

Fig No. 1B