

Device for detecting bacteria in a sample**Abstract**

5 The invention relates to a device for detecting bacteria in a sample, comprising an optical unit
(4) which is arranged to produce sets of multispectral images of portions of a sample, obtained
by illumination eliciting an autofluorescence response and by illumination eliciting a
reflectance response. These sets of multispectral images are supplied to an analyser (6)
comprising a classifier which produces an image in which each pixel is drawn from an identical
10 pixel of tire images of the set of multispectral images and is associated with an element
identifier indicating whether this pixel is associated with a bacterium or with another element.
This image is then used by a computer to determine bacteria detection data.

FIG. 1