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In recent years, the miniaturization of new methodologies has become a dominant trend due to the advantages they present. On the one hand, microextraction techniques integrated into microfluidic devices on chip have been able to be connected online to instrumental techniques for direct analysis. The development of new detection devices using optical fibers allows measuring new compounds more quickly and requiring less sample volume. In this work, we present for the first time the coupling between two miniaturized systems: a microextraction microchip device bases liquid phase microextraction and an optical detection device using optical fibers (fluorescence), allowing on-line determination in a single portable device using a very low sample volume. The first step was a clean-up sample treatment and the extraction of the analyte (norfloxacin), whereas the second step was the direct determination of norfloxacin using optical fibers. The microextraction procedure was carried

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