MICROFLUIDIC SYSTEM FOR ANALYZING NUCLEIC ACIDS

ABSTRACT

A system, including methods and apparatus, for microfluidic analysis of a nucleic acid target (72) in a nucleic acid mixture (60). The system includes a method (40) to preselect (42) the target from the mixture before amplification. Preselection enriches the mixture (60) for the target (72) by retaining the target on a target-selective receptor (78) and then removing unretained non-target nucleic acids (74). The preselected target then may be amplified (44) from the enriched mixture and assayed (46). Devices (62, 114) configured to carry out the method (40) are also disclosed.

(Fig. 2)