

Title (en)

METHODS AND APPARATUS FOR POINT-OF-CARE NUCLEIC ACID AMPLIFICATION AND DETECTION

Title (de)

VERFAHREN UND VORRICHTUNG FÜR NUKLEINSÄUREAMPLIFIKATION UND -NACHWEIS AM VERSORGUNGSORT

Title (fr)

PROCÉDÉS ET APPAREIL PERMETTANT L'AMPLIFICATION ET LA DÉTECTION D'ACIDES NUCLÉIQUES AU POINT D'INTERVENTION

Publication

**EP 3060683 A4 20170809 (EN)**

Application

**EP 14856081 A 20141022**

Priority

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Abstract (en)

[origin: WO2015061480A1] Methods and apparatus are provided for point-of-care nucleic acid amplification and detection. One embodiment of the invention comprises a fully integrated, sample-to-answer molecular diagnostic instrument that optionally may be used in a multiplexed fashion to detect multiple target nucleic acid sequences of interest and that optionally may be configured for disposal after one-time use. The instrument preferably utilizes an isothermal nucleic acid amplification technique, such as loop-mediated isothermal amplification (LAMP), to reduce the instrumentation requirements associated with nucleic acid amplification. Detection of target amplification may be achieved, for example, via detection of a color shift or fluorescence in a dye added to the amplification reaction. Such detection may be performed visually by an operator or may be achieved utilizing an imaging technique, e.g., spectrophotometric imaging.

IPC 8 full level

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Citation (search report)

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- [Y] WO 2006018044 A1 20060223 - AGILENT TECHNOLOGIES INC [US], et al
- [A] WO 2011097412 A1 20110811 - HARVARD COLLEGE [US], et al
- See references of WO 2015061480A1

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