

Title (en)  
SYSTEMS AND METHODS OF SAMPLE DEPOSITING AND TESTING

Title (de)  
SYSTEME UND VERFAHREN ZUR PROBENABLAGUNG UND -PRÜFUNG

Title (fr)  
SYSTÈMES ET PROCÉDÉS DE DÉPÔT ET DE TEST D'ÉCHANTILLONS

Publication  
**EP 4196277 A2 20230621 (EN)**

Application  
**EP 21856663 A 20210811**

Priority  
• US 202063066047 P 20200814  
• US 2021045600 W 20210811

Abstract (en)  
[origin: WO2022035995A2] The present application is generally directed to systems, methods, and devices for diagnostics for sensing and/or identifying pathogens, genomic materials, proteins, and/or other small molecules or biomarkers, for example, using loop-mediated isothermal amplification (LAMP). In some implementations, additional improves, such as improvements to sample and reagent mixing, sample deposition, and compensation of inhibitors in the sample. Also disclosed herein are nucleic acid primers for use in the sensitive and specific detection of pathogens in biological samples by LAMP, which may be performed in the devices disclosed herein. The biological samples may be derived from patients including humans, plants, food, soil, contaminated surfaces, or animals such as livestock.

IPC 8 full level  
**B01L 3/00** (2006.01); **G01N 27/327** (2006.01); **G01N 27/49** (2006.01)

CPC (source: EP)  
**B01L 3/502707** (2013.01); **B01L 3/502715** (2013.01); **B01L 3/50273** (2013.01); **B01L 3/502738** (2013.01); **B01L 7/52** (2013.01); **G01N 33/4875** (2013.01); **B01L 2200/025** (2013.01); **B01L 2200/027** (2013.01); **B01L 2200/028** (2013.01); **B01L 2200/0605** (2013.01); **B01L 2200/10** (2013.01); **B01L 2200/16** (2013.01); **B01L 2300/021** (2013.01); **B01L 2300/042** (2013.01); **B01L 2300/044** (2013.01); **B01L 2300/046** (2013.01); **B01L 2300/047** (2013.01); **B01L 2300/049** (2013.01); **B01L 2300/0645** (2013.01); **B01L 2300/0681** (2013.01); **B01L 2300/0816** (2013.01); **B01L 2300/0838** (2013.01); **B01L 2300/0864** (2013.01); **B01L 2300/0867** (2013.01); **B01L 2300/087** (2013.01); **B01L 2300/123** (2013.01); **B01L 2300/1827** (2013.01); **B01L 2400/0406** (2013.01); **B01L 2400/0481** (2013.01); **B01L 2400/0487** (2013.01); **B01L 2400/0655** (2013.01)

Citation (search report)  
See references of WO 2022035995A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022035995 A2 20220217**; **WO 2022035995 A3 20220331**; CA 3191731 A1 20220217; EP 4196277 A2 20230621

DOCDB simple family (application)  
**US 2021045600 W 20210811**; CA 3191731 A 20210811; EP 21856663 A 20210811