

Title (en)
Nucleic acid preparation

Title (de)
Präparieren von Nucleinsäuren

Title (fr)
Préparation d'acide nucléique

Publication
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Application
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Abstract (en)
The present invention is directed to methods, devices and computer programs for preparing nucleic acids from a template nucleic acid by subjecting a sample to thermocycles. After a first number of thermocycles, a partial amount of the reaction mixture is being subjected to a second number of thermocycles. This two step amplification method allows to speed up overall reaction time without affecting the limit of detection.

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Citation (applicant)
• EP 0201184 A2 19861112 - CETUS CORP [US]
• EP 0200362 A2 19861105 - CETUS CORP [US]
• EP 0543942 A1 19930602 - HOFFMANN LA ROCHE [CH]
• WO 2004051218 A2 20040617 - APPLERA CORP [US], et al
• WO 0220845 A2 20020314 - UNIV JEFFERSON [US], et al
• US 4683202 A 19870728 - MULLIS KARY B [US]
• US 5185243 A 19930209 - ULLMAN EDWIN F [US], et al
• US 5679524 A 19971021 - NIKIFOROV THEO [US], et al
• US 5573907 A 19961112 - CARRINO JOHN J [US], et al
• WO 03106031 A1 20031224 - HOFFMANN LA ROCHE [CH], et al
• EP 0543942 A1 19930602 - HOFFMANN LA ROCHE [CH]
• US 2003152492 A1 20030814 - CHANG RONALD [US], et al
• US 5639423 A 19970617 - NORTHRUP M ALLEN [US], et al
• SAMBROOK: "MOLECULAR CLONING - A LABORATORY MANUAL", 1989, COLDSRING HARBOUR LABORATORY PRESS
• LEE, J. MICROMECH. MICROENG., vol. 13, 2003, pages 89 - 97
• HANDIQUE, ANAL. CHEM., vol. 72, pages 4100 - 9
• HOSOKAWA, ANAL. CHEM., vol. 71, no. 1, pages 4781 - 5
• PUNTAMBEKAR: "PROC. TRANSDUCERS'01", BERLIN: SPRINGER, pages: 1240 - 3
• ZHAO, SCIENCE, vol. 291, pages 1023 - 6
• ANDERSSON, SENSORS ACTUATORS, vol. 75, pages 136 - 41
• A VAN DEN BERG, P BERVELD: "Micro Total Analysis Systems", PROCEEDINGS UTAS'94, 1994
• M J HELLER; A GUTTMAN, INTEGRATED MICROFABRICATED BIODEVICES, 2002
• O GESCHKE; H KLANK; P TELLEMANN, MICROSYSTEM ENGINEERING OF LAB-ON-A-CHIP DEVICES, 2004

Citation (search report)
• [A] US 2002127708 A1 20020912 - KLUTTZ BRYAN W [US], et al
• [AD] WO 0220845 A2 20020314 - UNIV JEFFERSON [US], et al

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