

Title (en)

REAL TIME QUANTITATIVE PCR WITH INTERCALATING DYE FOR SINGLE AND MULTIPLEX TARGET DNA

Title (de)

QUANTITATIVE 'ECHTZEIT'-PCR UNTER VERWENDUNG EINES INTERKALIERENDEN FARBSTOFFS FÜR EINZELNE UND MEHRFACHE DNA-MATRIZEN

Title (fr)

PCR QUANTITATIVE EN TEMPS REEL UTILISANT UN COLORANT INTERCALANT POUR LA DETECTION D'UN OU DE MULTIPLES ADN

Publication

**EP 1358346 A2 20031105 (EN)**

Application

**EP 01924120 A 20010307**

Priority

- US 0107101 W 20010307
- US 18753700 P 20000307

Abstract (en)

[origin: WO0166799A2] The PCR-based, dsDNA quantification method monitors the fluorescence of a target, whose melting characteristics is predetermined, during each amplification cycle at selected time-points. Fluorescence is measured immediately after the annealing phase (FE at TE), immediately below (FMS at TMS) and above (FME at TME) the melting of the target/amplicon. A change in slope from a baseline slope ( $SB = -(FMS - FE)/(TMS - TE)$ ) to a melting phase slope ( $SM = -(FME - FMS)/(TME - TMS)$ ) indicates a specific amplification. The number of amplification cycles (CT) it takes for the quantity ( $SM - SB$ ) to become greater than zero correlates with the starting concentration of the target (C). The concentration of the target in a sample is determined by comparing the value of CT for the sample with a standard curve. By selecting targets with distinguishable melting curve characteristics, multiple targets can be simultaneously detected.

IPC 1-7

**C12Q 1/68**; G06F 19/00

IPC 8 full level

**C12N 15/09** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/6851** (2018.01)

CPC (source: EP)

**C12Q 1/6851** (2013.01)

Citation (search report)

See references of WO 0166799A2

Citation (examination)

WO 0208414 A1 20020131 - NAT INST OF ADVANCED IND SCIEN [JP], et al

Designated contracting state (EPC)

AT BE CH CY DE DK FR GB IT LI NL

DOCDB simple family (publication)

**WO 0166799 A2 20010913**; **WO 0166799 A3 20030904**; AU 5080301 A 20010917; EP 1358346 A2 20031105; JP 2004533801 A 20041111

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