Title (en)

MICROFLUIDIC MIXING

Title (de)

MIKROFLUIDISCHES MISCHEN

Title (fr)

MELANGE MICROFLUIDIQUE

Publication

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Application

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Abstract (en)

[origin: WO2005094976A1] A method for mixing two or more aliquots of material, said material being liquid for each of the aliquots except one that may be liquid or a solid material that is dispersed or dissolved in the resulting mixed aliquot, said mixing taking place in a microfluidic mixing unit (100,200,300). The mixing unit comprises: A) a premixing microcavity (103,203,303) that in the upstream direction is connected to said inlet arrangement, and B) a mixing microconduit (104,204,304), and C) an inlet subunit (101,201,301) that in the downstream direction is connected to said premixing microcavity (103,203,303) and/or said mixing microconduit (104,204,304). The method comprises the steps of: i) providing said unit (100,200,300), ii) providing said two or more aliquots in the premixing microcavity (103,203,303), iii) mixing said aliquots in the mixing microconduit (104,204,304), and iv) collecting said resulting mixed aliquot. The characteristic feature is: (A) the mixing unit comprises a vent (111,211,311) in a remote part or end of microconduit (104,204,304), and (B) step (iii) comprises the substeps of: (iii.a) moving said aliquots into said microconduit (104,204,304), and (iii.b) moving said aliquots (104,204,304) in the opposite direction in said microconduit (104,204,304).

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