

Title (en)

MICROFLUIDIC CHIP FOR BIOMOLECULE CRYSTALLIZATION

Title (de)

MIKROFLUIDISCHER CHIP ZUR BIOMOLEKÜLKRYSTALLISIERUNG

Title (fr)

PUCE MICROFLUIDIQUE UTILISEE DANS LA CRISTALLISATION DE BIOMOLECULES

Publication

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Application

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Abstract (en)

[origin: WO2004023106A1] A system for crystallizing a protein and other biomolecules, the general scheme of which is represented in Figure 1, comprises a flow channel (12) for conveying a solution containing the biomolecule to be crystallized and one or more substations (40, 50, 60, 70) related to the crystallization process formed along the flow channel. The system operates by flowing a biomolecule solution through the flow channel (12), then performing dialysis on a micro-scale to set crystallization conditions. After dialysis, the concentration of the biomolecule solution is changed by removing water or solvent from the biomolecule solution to promote formation of crystals in a segment of the flow channel. Formed crystals may be observed and harvested from the flow channel.

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