

Title (en)

DEVICE AND METHOD FOR EXPOSING CELLS TO AN AEROSOL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR EXPOSITION VON ZELLEN GEGENÜBER EINEM AEROSOL

Title (fr)

DISPOSITIF ET PROCÉDÉ D'EXPOSITION DE CELLULES À UN AÉROSOL

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Application

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Abstract (en)

[origin: WO2021104787A1] The present invention relates to an exposure device making it possible to control the exposure time of cells to a study atmosphere, such as an aerosol or a gas. In particular, the invention relates to a device for exposing cells to an atmosphere comprising an upper portion (100) for discharging the study atmosphere and a lower portion (200) comprising a cell culture plate provided with a plurality of exposure chambers, said upper portion (100) being supplied with a study atmosphere and comprising a network of ducts conveying the atmosphere to the exposure chambers, characterized in that: - the upper portion (100) comprises at least one pair of ducts, an atmosphere inlet duct (120) and an atmosphere outlet duct (130), both connected to a deposition nozzle (150), - the nozzle (150) connects in a sealed manner to one of the exposure chambers of the lower portion (200) and comprises a partition (155) separating an atmosphere inlet sub-duct (154) from an atmosphere outlet sub-duct (156) of the exposure chamber, and in which a study atmosphere injected into the exposure chamber is evacuated through the outlet sub-duct (156) of the deposition nozzle (155) by suction, in a controlled time, and while creating an atmosphere passage flow. The invention also relates to a method for studying the effects of exposing cell cultures to an atmosphere.

IPC 8 full level

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