

Abstract

[Problem] To provide a highly safe device and method for decontaminating the inside of a sealed space such as in an isolator that cause less post-decontamination damage to cells and have no possibility of adsorption or re-release.

[Solution] A sealed space 12 in an isolator B and a decontamination device A are connected by a first duct 7 and a second duct 8. The decontamination device A comprises a dry fog generator 1, a temperature and humidity sensor 2, a gas collector 3, and a main control and monitoring device 4. The dry fog generator 1 generates dry fog having an average particle diameter of less than or equal to 10 μm using a decontamination agent consisting of a peracetic acid liquid mixture, and sprays the dry fog in the first duct 7 so that the concentration of the dry fog is less than or equal to 2% to fill the inside of the sealed space 12 with the dry fog. Operation of the dry fog generator 1 is stopped and operation of the gas collector 3 is started when a measured humidity from the temperature and humidity sensor 2 reaches or exceeds set humidity. The operation of the gas collector 3 is stopped and the operation of the dry fog generator 1 is started when the measured humidity drops below the set humidity.

[Selected drawing] FIG. 2