

Title (en)

INDUSTRIAL SCALE BARRIER TECHNOLOGY FOR PRESERVATION OF SENSITIVE BIOLOGICAL MATERIALS

Title (de)

BARRIERE TECHNOLOGIE IN INDUSTRIELLEM UMFANG FÜR KONSERVIERUNG VON EMPFINDLICHEN BIOLOGISCHEN MATERIALIEN

Title (fr)

TECHNOLOGIE D'ISOLATION A ECHELLE INDUSTRIELLE DESTINEE A LA PRESERVATION DE MATIERES BIOLOGIQUES SENSIBLES

Publication

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Application

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Abstract (en)

[origin: WO0194867A1] The present invention relates to an industrial scale barrier process for preserving a biologically active material and subsequent storage at temperatures above 0 DEG C. The process comprises loading an industrial scale volume of a solution or suspension containing the biologically active material into a process vessel adapted to fit within a process chamber. The solution or suspension is subjected to drying conditions, which comprise a temperature and a vacuum pressure, wherein the drying conditions are sufficient to cause the solution or suspension to boil without freezing. The drying conditions are monitored using a temperature sensor and a pressure sensor and are adjusted as required to maintain boiling without freezing by applying heat to the solution or suspension until a mechanically stable foam is formed. Optionally, subsequent crushing of the preserved biological material is used to form dry powders.

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