

Title (en)
METHODS TO PRODUCE DEFINED, SPHERICAL, BIO-DEGRADABLE MACROPOROUS MICROCARRIERS/HYDROGELS FOR CELLULAR AGRICULTURE

Title (de)
VERFAHREN ZUR HERSTELLUNG DEFINIERTER, KUGELFÖRMIGER, BIOLOGISCH ABBAUBARER MAKROPORÖSER MIKROTRÄGER/HYDROGELE FÜR DIE ZELLULÄRE LANDWIRTSCHAFT

Title (fr)
PROCÉDÉS DE PRODUCTION DE MICROSUPPORTS/HYDROGELS MACROPOREUX, SPHÉRIQUES ET BIODÉGRADABLES POUR L'AGRICULTURE CELLULAIRE

Publication
EP 4347782 A1 20240410 (EN)

Application
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Abstract (en)
[origin: WO2022249076A1] Biocompatible macroporous microcarriers, including microcarrier beads, microspheres, capsules, microsponges, hydrogels and other matrix forms, appropriate for use in a shaking flask or bioreactor to culture cells are described herein that can be used to create an edible structure for consumption or research investigation. Biocompatible, macroporous microcarriers can be dissolved or remain in the final product. Biocompatible macroporous microcarriers are formed by saccharides that are cross-linked via chemical induction with agitated cryo-gelation. Cross-linked macroporous, saccharide-microcarriers are coupled to adherence factors that enable cell binding. Finally, the cells are attached to the microcarrier for proliferation.

IPC 8 full level
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CPC (source: EP)
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