

Title (en)
ALGINATE BEADS AND PRODUCTION THEREOF

Title (de)
ALGINATPERLEN UND DEREN HERSTELLUNG

Title (fr)
BILLES D'ALGINATE ET LEUR PRODUCTION

Publication
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Application
EP 21742832 A 20210713

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Abstract (en)
[origin: EP3940072A1] The present invention aims to solve the problem by providing methods for producing solid, hollow and 2-layer alginate beads, wherein the alginate solidifies via slow release of divalent ions into an alginate solution. It is here provided a solution that allows a slow release of divalent cations into an alginate solution leading to solidification of the solution and formation of homogeneous beads, hollow beads or 2-layer beads. This invention also improves the viability of cells and microorganisms compared to other slow divalent cation release techniques to produce alginate beads or capsules. Further, it provides a use of the methods for producing solid, hollow and 2-layer alginate beads for co-culturing fluorescent reporter cell-lines and microorganisms, wherein the fluorescent reporter cell-lines and the microorganisms are co-encapsulated into the core or shell of the alginate beads.

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