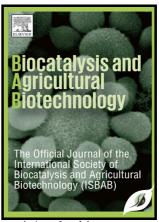
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ACCEPTED MANUSCRIPT

Wheat bran as prebiotic cell immobilization carrier for industrial functional

Feta-type cheese making: chemical, microbial and sensory evaluation

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Abstract

Wheat bran, a common cereal processing by-product, was used as immobilisation carrier for a

probiotic Lactobacillus casei strain (L. casei ATCC 393). The immobilised synbiotic

biocatalyst was freeze-dried without cryoprotectants and was used as adjunct in industrial

Feta cheese making (a). For comparison reasons cheeses were also made by addition of: (b)

free freeze dried L. casei cells as adjunct, (c) wheat bran, and (c) no-additions (industrial Feta

cheese). In all cases the commercial Feta cheese culture was used as starter. The cheeses made

with the synbiotic biocatalyst showed significantly higher cell viabilities during storage (120

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