

Title (en)

SOLID BLOCK ENZYMATIC CLEANING WITH ELECTROLYTIC CONTROL FOR CLEAN-IN-PLACE SYSTEMS

Title (de)

ENZYMATISCHE REINIGUNG IN BLOCKFORM MIT ELEKTROLYTISCHER KONTROLLE FÜR CIP-SYSTEME

Title (fr)

NETTOYAGE ENZYMATIQUE EN BLOC SOLIDE A CONTROLE ELECTROLYTIQUE POUR SYSTEMES DE NETTOYAGE SUR PLACE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9947631A1] Disclosed is the use of enzyme containing solid detergent compositions that can be used to remove food soil from typically food or foodstuff related manufacturing equipment or processing surfaces without the use of corrosives such as chlorine. In particular, the invention relates to the removal of milk proteins from dairy processing equipment. The invention further relates to the use of said composition in a clean-in-place system in which electrical conductivity is used to control the concentration of detergent within the system. Although various enzymes can be used, the preferred embodiment of the invention uses proteases to assist in removing the milk proteins from the processing equipment. The protease is stabilized by including sodium borate, sucrose, milk or the combination thereof in the use solution. The sodium borate also functions as an aid to solidification, as a buffering agent and also functions as an alkalinity source. It is the sodium borate which permits the use of a high level of electrolyte for conductivity control.

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