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(54) Title: NOVEL BIOCATALYST COMPOSITIONS AND PROCESSES FOR USE

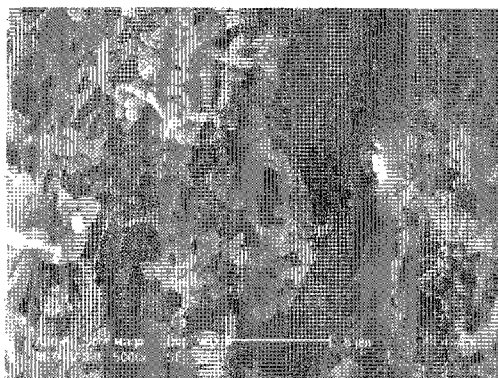


FIGURE 1

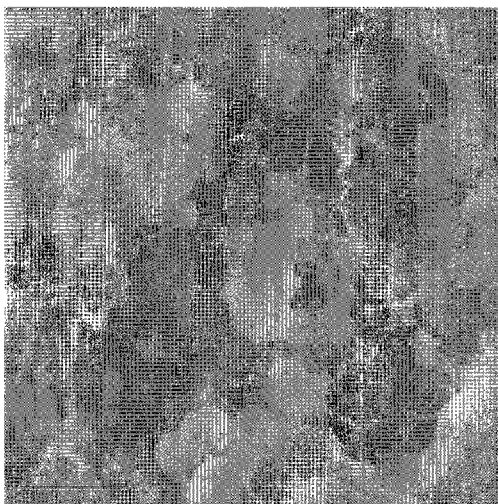


FIGURE 2

(57) Abstract: The microorganism-containing biocatalysts disclosed have a large population of the microorganisms irreversibly retained in the interior of the biocatalysts. The biocatalysts possess a surprisingly stable population of microorganisms and have an essential absence of debris generation from metabolic activity of the microorganisms. The biocatalysts are composed of highly hydrophilic polymer and have an internal, open, porous structure that promotes community phenotypic changes.





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