



GROWTH CONTROL IN MICROBIAL CULTURES

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INTRODUCTION

A basic property of intact microbial cells in the presence of nutrients is the ability to grow, i.e. a tendency towards exponential reproduction. The basis of reproduction is the quality of such systems to duplicate or multiply, which leads to the production of identical or quasi-identical copies. Quasi-identical means that the duplicates may vary slightly and thus may possess better opportunities to adapt to environmental conditions. The reproduction is a self-replicating process inherent to the system. A living cell is not reproduced, but it reproduces itself, which means that it is an autocatalytic system. Such systems are defined as systems capable of duplicating themselves by using material and energy from the environment. This implies that although in terms of matter and energy flow the living system (pure cultures) behaves as an open

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