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摘要：本研究采用流式细胞术测定啤酒酵母中的绿色荧光蛋白的表达量和细胞的存活度，提出一种可以用于监测啤酒酵母生长的快捷方法，筛选出较佳细胞培养方案，测定酵母细胞在不同含油酸培养基中的死亡速度常数。

关键词：流式细胞术, 啤酒酵母, 油酸, 存活度, 绿色荧光蛋白, 死亡速度常数

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Quantitative studies on the growth of *Saccharomyces cerevisiae* in oleic acid medium with flow cytometry

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Abstract: *Saccharomyces cerevisiae* has been utilized to produce lipid-derived compounds and biopolymers, such as polyhydroxyalkanoates (PHA). But these researches in *S. cerevisiae* are hampered by the fact that growth on fatty acid and microbody induction are often poor. The single-cell variability and the green fluorescent protein (GFP) expression of *S. cerevisiae* were measured by using flow cytometry technology. A fast way to examine *S. cerevisiae* growth was established and a better cultivation strategy was screened. The death rate

Key words: Flow cytometry, *Saccharomyces cerevisiae*, Oleic acid Viability, GFP death rate constant

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