

METHODS AND COMPOSITIONS FOR DETECTING MICROBIAL PRODUCTION OF WATER-IMMISCIBLE COMPOUNDS

Abstract

Provided herein are methods and compositions useful for detecting the production of compounds in a cell, for example, a microbial cell genetically modified to produce one or more such compounds at greater yield and/or with increased persistence compared to a parent microbial cell that is not genetically modified. In some embodiments, the methods comprise contacting a solution with a fluorescent dye that directly binds the recombinantly produced compound, wherein the solution comprises a plurality of cells recombinantly producing the compound; and detecting the fluorescent dye under spectral conditions suitable for the selective detection of the fluorescent dye bound to the recombinantly produced compound.

FIG. 4