

Resource Summary Report

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Isolation and isotopic labeling of bacteria

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Type: Protocol

Proper Citation

Ramon Terrado 2016. Isolation and isotopic labeling of bacteria. protocols.io
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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.eyzbf6>

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Summary: This protocol describes how to isolate bacteria in order to label its biomass using ^{13}C -glucose and ^{15}N -ammonia. The first steps aim to isolate candidate bacteria that are able of growing on the chosen substrates for isotopic labeling. The protocol was applied to the isolation of bacteria from freshwater algal cultures, although it can be applied to natural samples. The M9 media used in the protocol is based on the media from Marley, Lu and Bracken (2001).
References: Marley, J., Lu, M., & Bracken, C. (2001). A method for efficient isotopic labeling of recombinant proteins. *Journal of Biomolecular Nmr*, 20(1), 71–75.

Affiliations: University of Southern California (USC)

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