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Declarations under Rule 4.17:
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(54) **Title:** A METHOD FOR RESOURCE RECOVERY BY MICROALGAE-METHANOTROPH COCULTURE

(57) **Abstract:** Disclosed herein is a method of generating a protein mixture, comprising (a) providing a co-culture comprising microalgae and methanotrophs obtained from a waste activated sludge in a reaction vessel, and (b) operating the reaction vessel under conditions that comprise feeding a gas comprising CO₂ and CH₄ that is depleted of oxygen to the co-culture and subjecting the co-culture to light to generate the protein mixture.

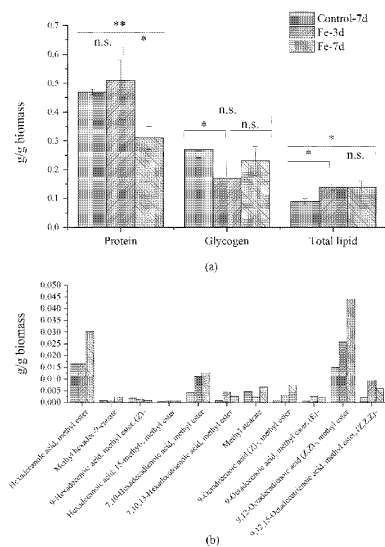


Fig. 16

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