

## Accepted Manuscript

Title: Scale-up of docosahexaenoic acid production in fed-batch fermentation by *Schizochytrium sp.* based on volumetric oxygen-transfer coefficient

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- 1) A scale-up strategy based on  $K_La$  was developed for DHA fermentation process.
- 2) A  $K_La$  model was developed for scale-up of bench-scale fermentation process.
- 3) The  $K_La$  empirical equations were used for scale-up of pilot-scale process.
- 4) The scale-up strategy enabled a maximum of 150-fold quantitative scale-up.

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