

Journal of Visualized Experiments
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Hannover, 10.07.19

Dear Nandita,

Please find enclosed the manuscript entitled "Process Optimization using High Throughput Automated Micro-bioreactors in CHO cultivation" for the consideration at JoVE.

We confirm that the work has neither been published, nor is it under consideration for publication elsewhere.

The main objective of the paper is to introduce the software control of the automated micro-bioreactor.

These systems have a major advantage over the conventional bioreactors for process optimization. Using Design of Experiments, different process factors can be evaluated to reach the end results, for example, high product concentration. The designing of the protocol to run a Design of Experiment in an automated micro-bioreactor, with a maximum working volume of 15 mL, has been described in detail to benefit the users to conduct the desired cultivations for process optimization. Further, the analytics of the response is demonstrated in the script. In this case, Protein A chromatography is used to quantify the product concentration.

There is no conflict of interest to disclose.

Please address all correspondence regarding this manuscript to me as corresponding author (solle@iftc.uni-hannover.de).

Thank you for your consideration of this manuscript.

Yours sincerely,

