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Revival of *S. elongatus* from plates

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On receiving wild type or transformed *S. elongatus* plates, one needs to revive them for further studies. Revival of *S. elongatus* involves making its liquid culture in BG-11 medium. The following protocol describes the liquid culture preparation from BG-11 plates.

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- 1 Take a  **50 mL** autoclaved flask.

Remove the foil on the flask for aeration purposes.

- 2 Take a  **10 mL** aliquot of BG-11 solution in a falcon tube and transfer it into the flask. Keep

the flask aside

Carry out this process and all the successive steps inside a laminar airflow hood

- 3 Take the cyanobacteria plate and gently scrape it with the tip of a 1 mL loaded micropipette.

Position the plate such that the streaked part faces the roof of the laminar hood, remove the lid carefully and place it upside down.

- 4 Dip the pipette tip in the aliquot of the BG-11 medium and gently mix.

To mix, gently resuspend the liquid 1-2 times.

- 5 For the engineered strains, apply appropriate antibiotics (10µg/mL kanamycin and 4µg/mL gentamicin) in the BG-11 medium.

- 6 Store all the flasks in a photo incubator at 15000 lux, 🧪 **150 rpm, 37°C**