

# Resource Summary Report

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## Chlorophyll Extraction in Cyanobacteria

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Type: Protocol

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### Proper Citation

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### Protocol Information

**URL:** <https://dx.doi.org/10.17504/protocols.io.ywvfxe6>

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**Summary:** This protocol should be used for chlorophyll extraction in cyanobacteria. The equation for calculating the exact chlorophyll content can be found at the end of this document. You might want to measure the optical density (OD) of your cyanobacteria culture at 750 nm. Use BG11 medium or water as the reference solution. You need the OD of your culture to normalize the chlorophyll concentration to the number of cyanobacteria. Calculate chlorophyll content (adapted from Lichtenthaler 1978)  $\text{Chl } [\mu\text{g/ml}] = \text{OD}_{665\text{nm}} \times 13.9 [\mu\text{g/ml}] \times \text{dilution factor of culture}$ . You can take less than 1 ml, but note the dilution factor for the calculation later on, e.g. : 1 ml sample = dilution factor of 1500  $\mu\text{l}$  sample = dilution factor of 2100  $\mu\text{l}$  sample = dilution factor of 10

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