

Anaerobic digestion of microalga *Chlorella protothecoides* and metagenomic analysis of reddish-colored digestate

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Supplementary material

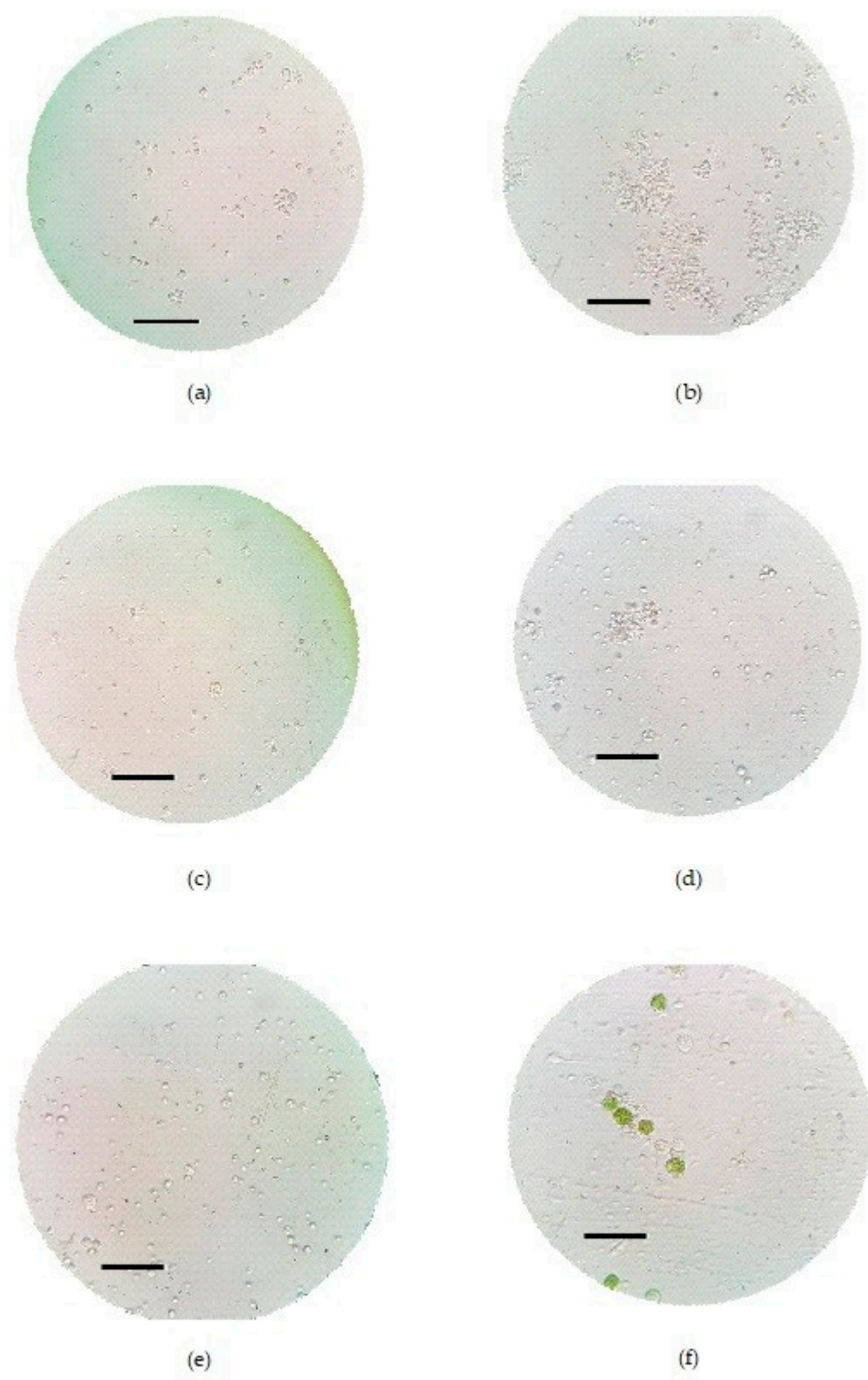


Figure S1. The effect of pretreatments on *Chlorella protothecoides* cells seen under an optical microscope. Bar, 5 µm; (a) H—heterotrophic algae; (b) HExt—extracted heterotrophic algae; pretreated heterotrophic algae; (c) HExt—enzymatic; (d) HPA—autoclave; (e) HPU—ultrasound; (f) AA—autotrophic algae.

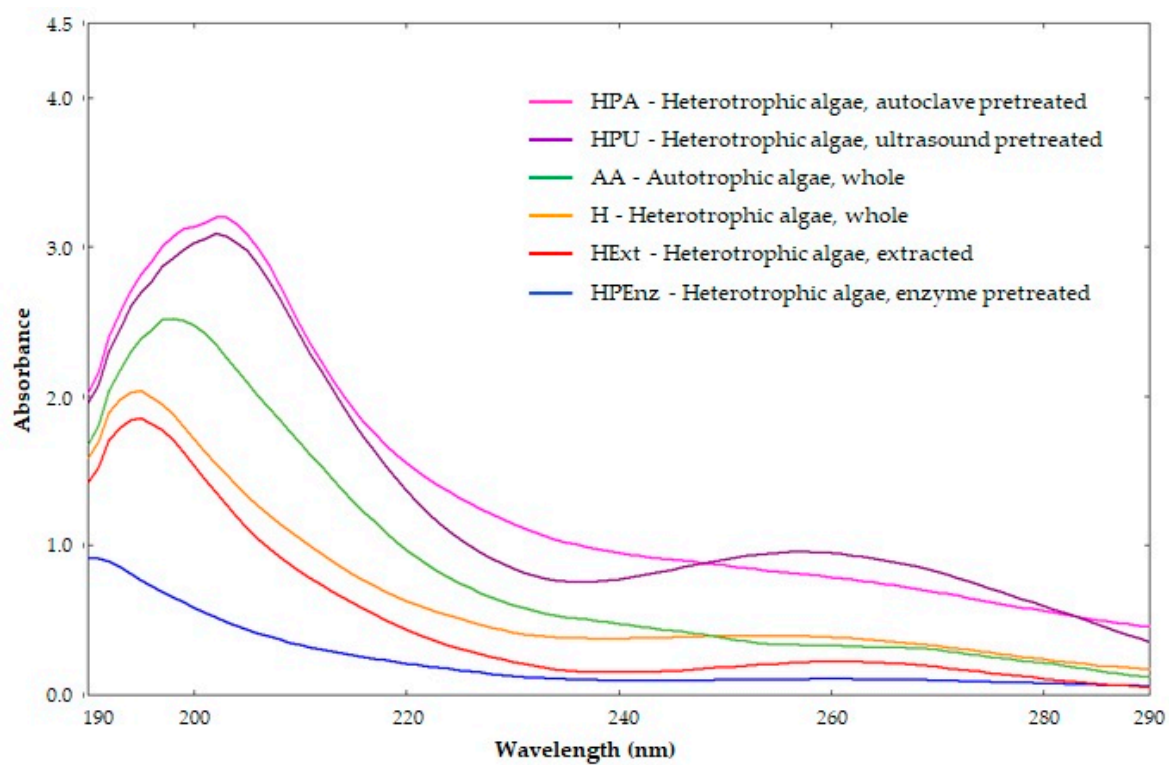


Figure S2. UV spectrum of untreated algae and pretreated algae.

H



HExt



HPEnz



HPA



HPU



AA



I



Figure S3. Pictures at the end of the anaerobic digestion to see differences in coloration in units. H—heterotrophic algae (4-6); HExt—extracted heterotrophic algae (7-9); pretreated heterotrophic algae: (HPEnz—enzymatic (10-12); HPA—autoclave (13-15); HPU—ultrasound (16-18)); AA—autotrophic algae (19-21); I—inoculum (1-3).

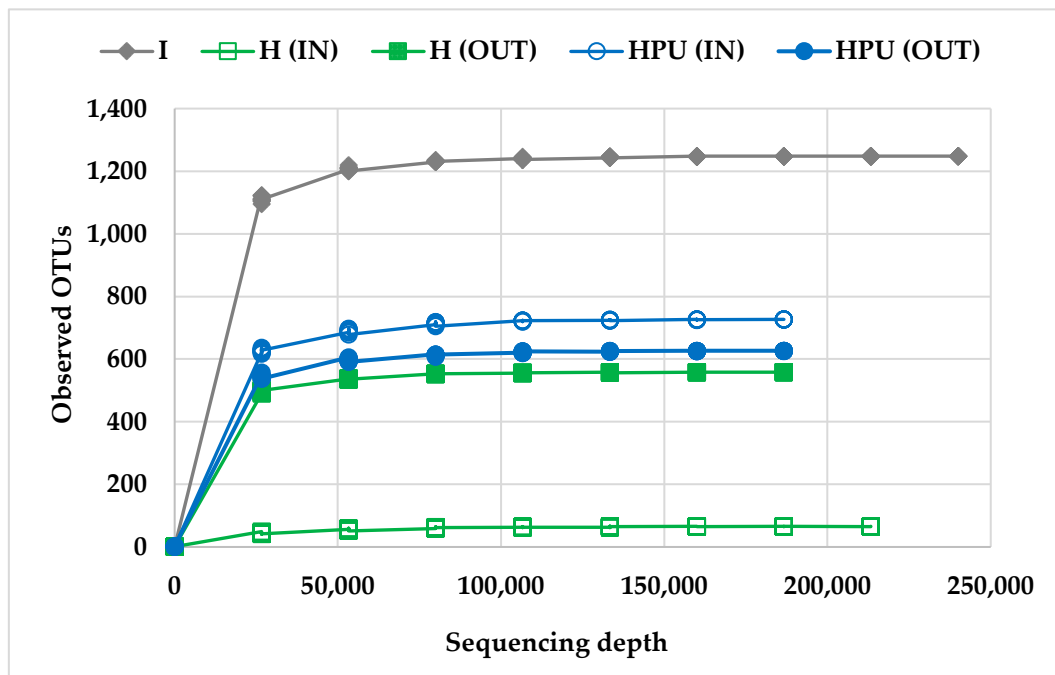


Figure S4. Alpha rarefaction curves for the occurrence with which OTUs were detected at each sample from inoculum (I) and samples from anaerobic digestion: H—heterotrophic algae; HPU—pretreated heterotrophic algae. OTU—operational taxonomic unit. The sample names can be looked up in the NCBI bioproject with accession code PRJNA927270.