

Gellan Gum/Humic Acid Hydrogels as Potential System for Plant Growth

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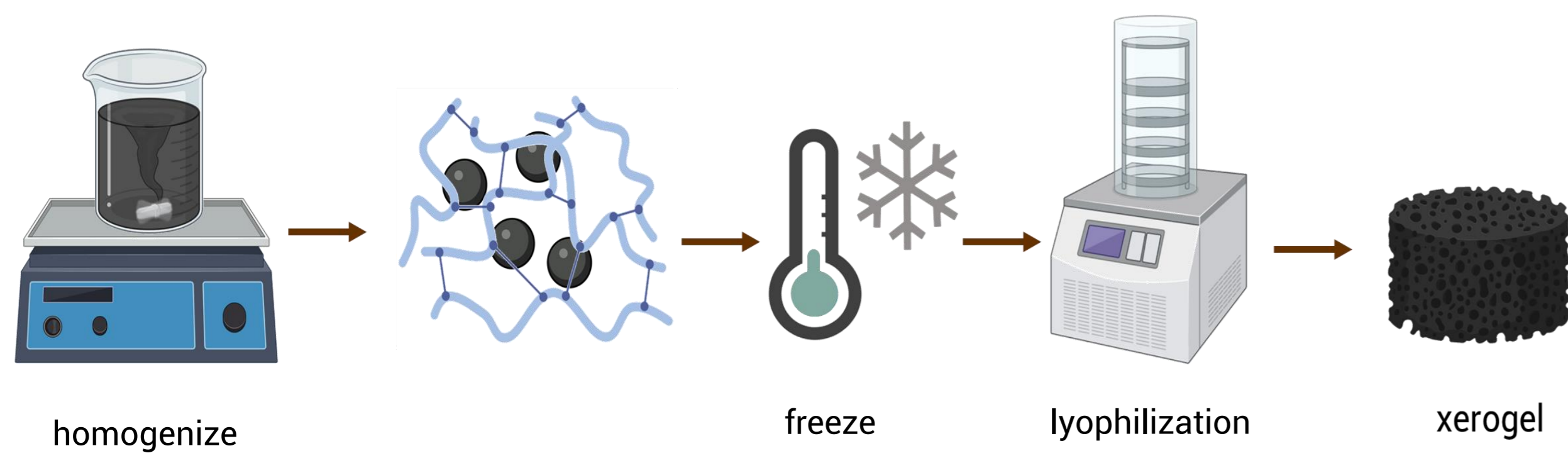
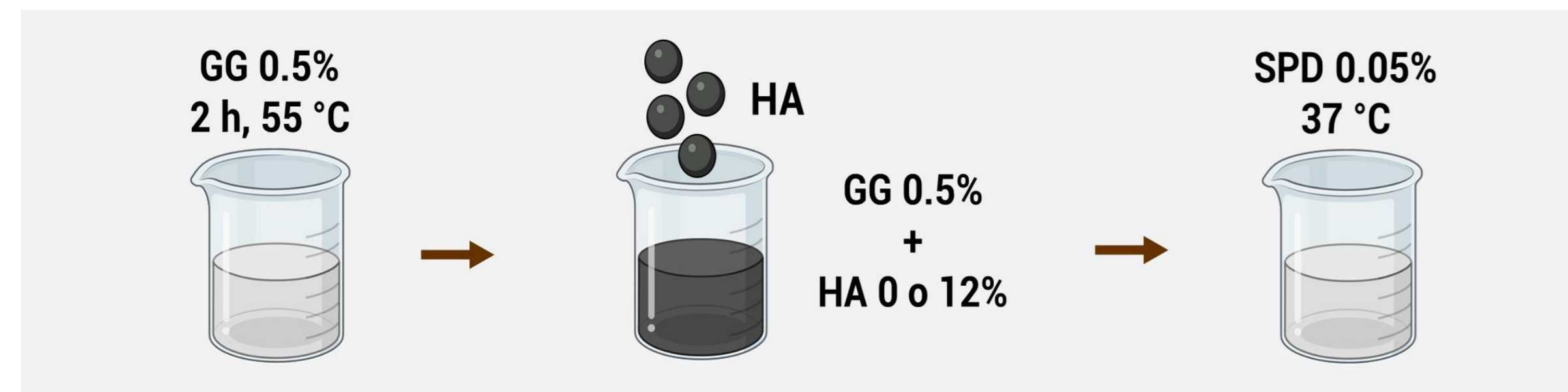
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Methodology

Hydrogel Synthesis

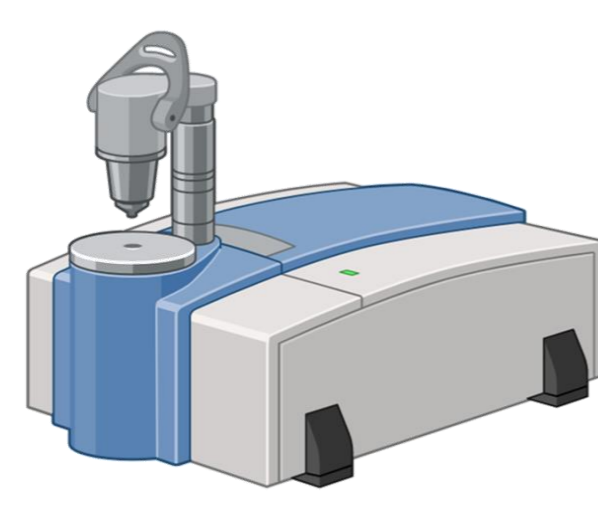


Characterization

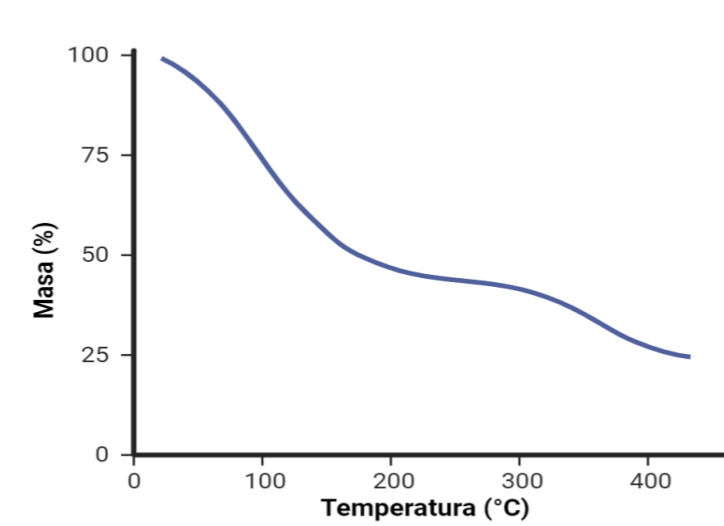
Scanning Electron Microscopy (SEM)



Infrared spectroscopy (ATR-FTIR)



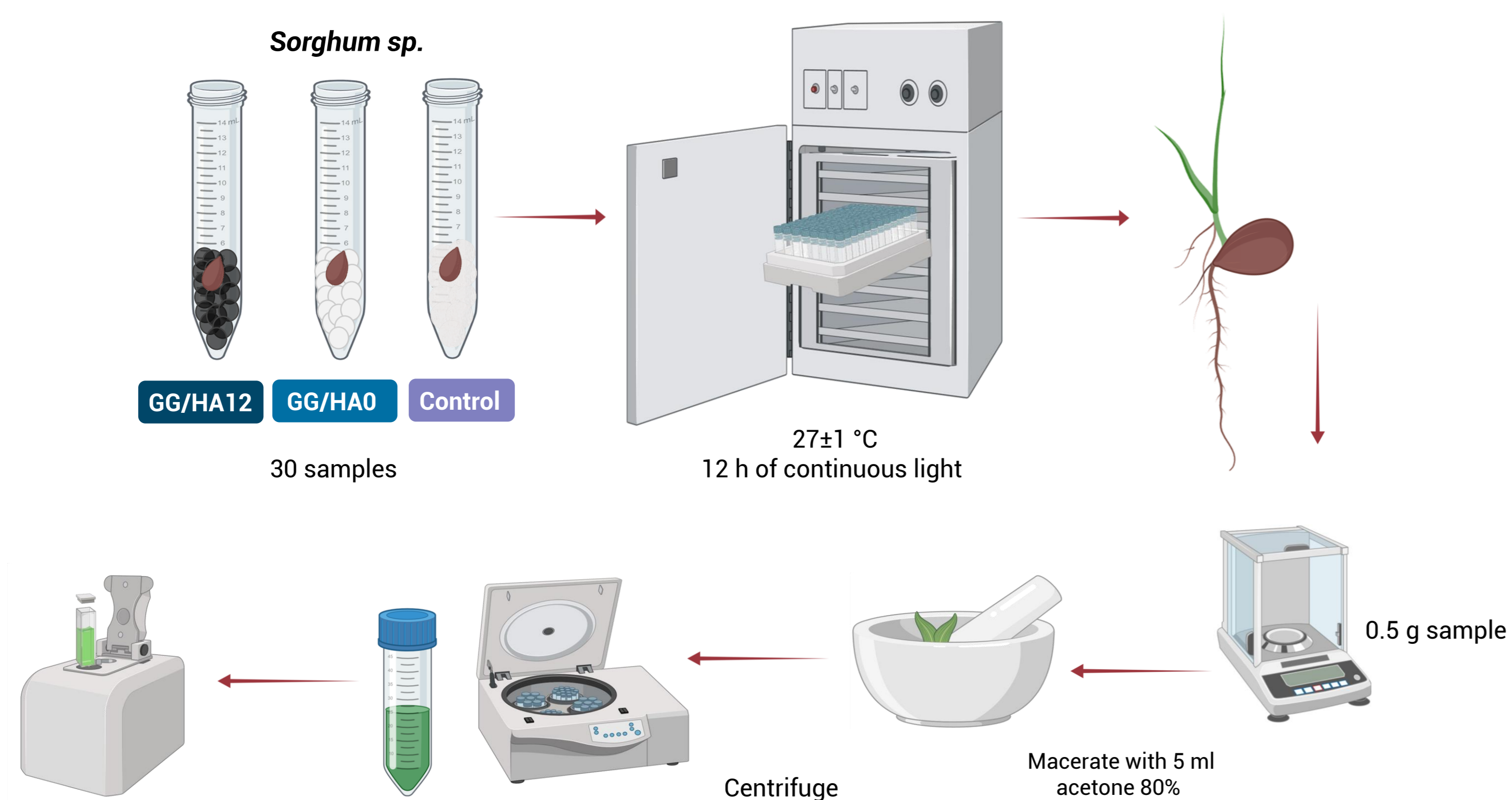
Thermogravimetric analysis (TGA)



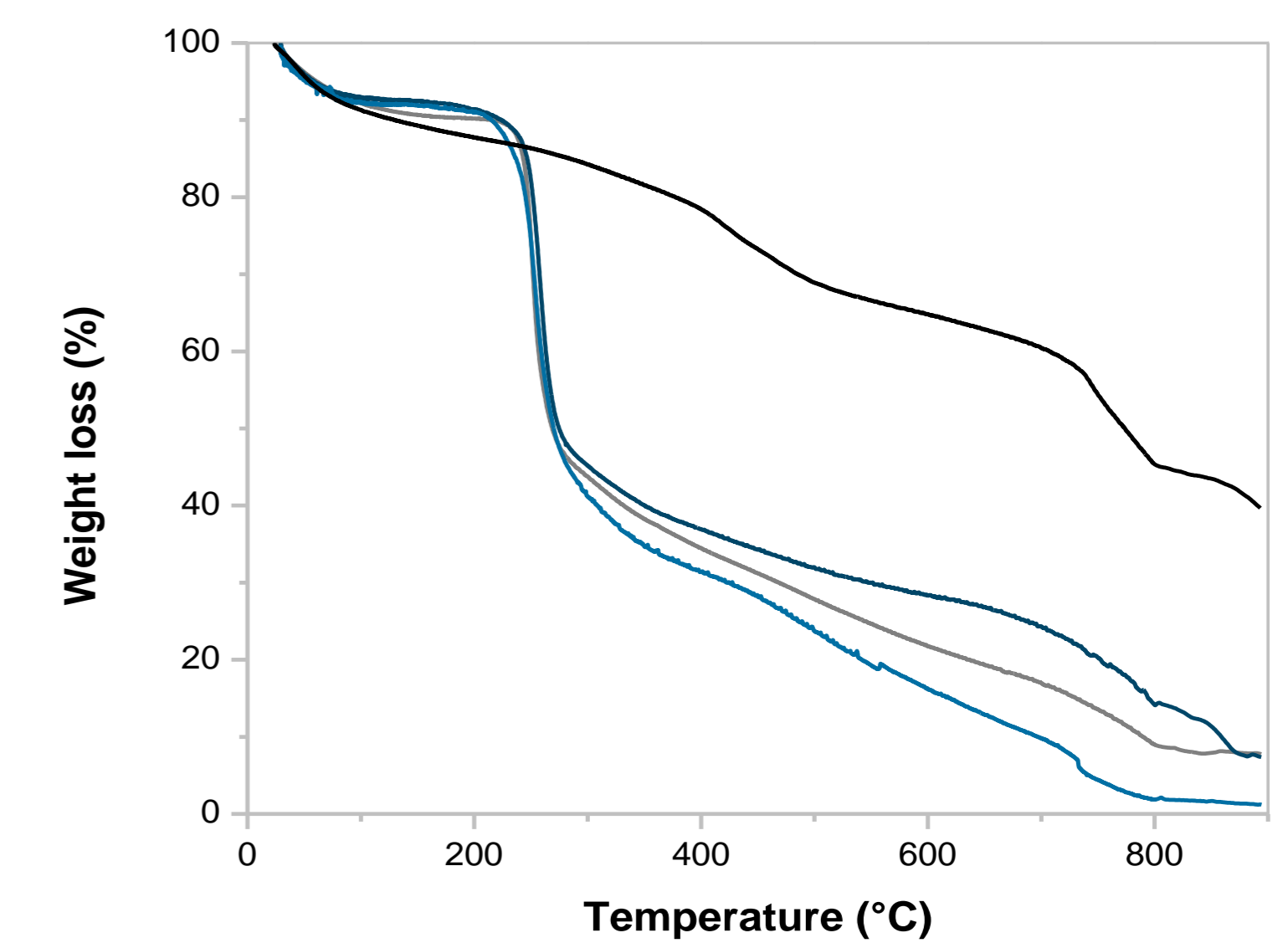
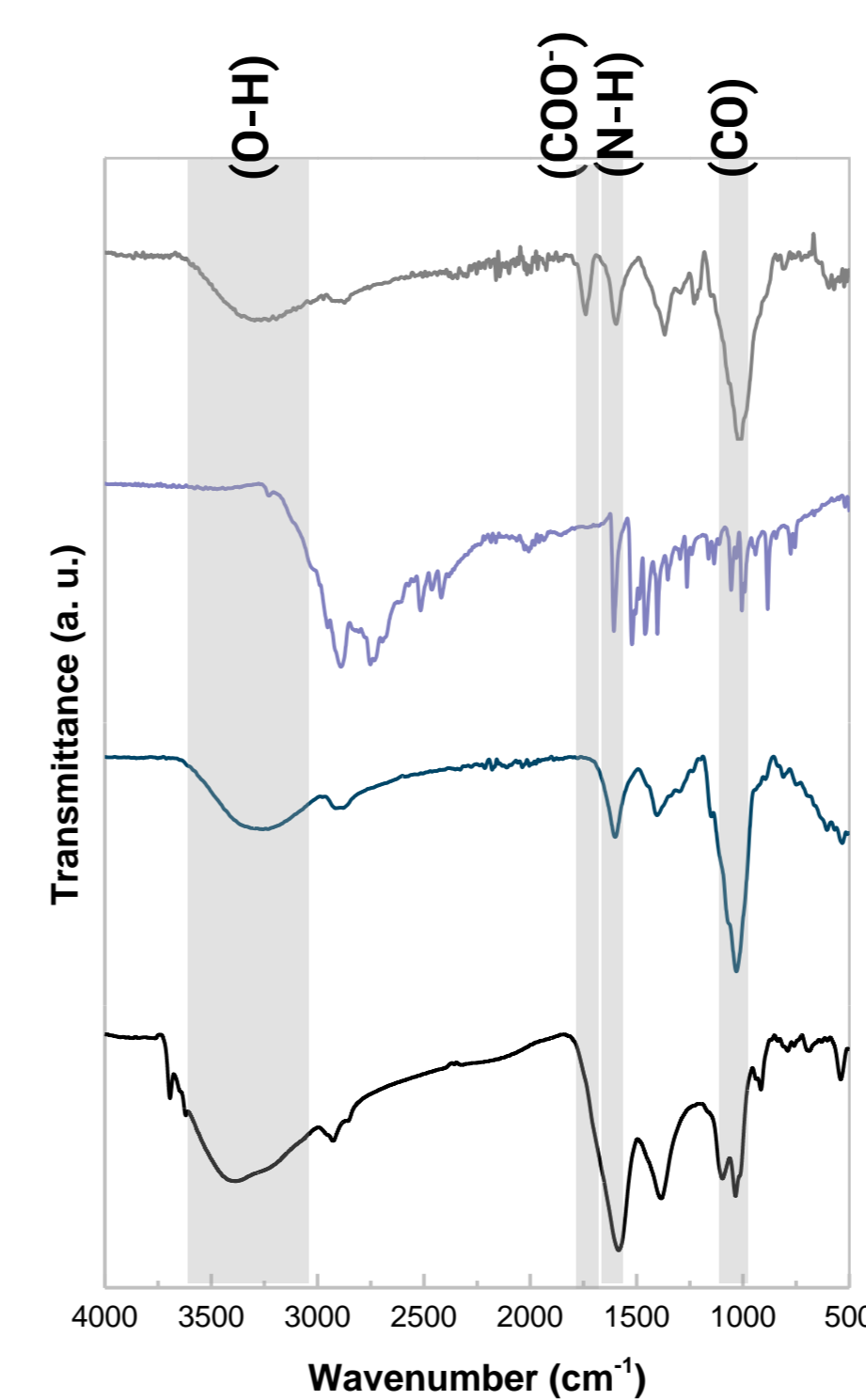
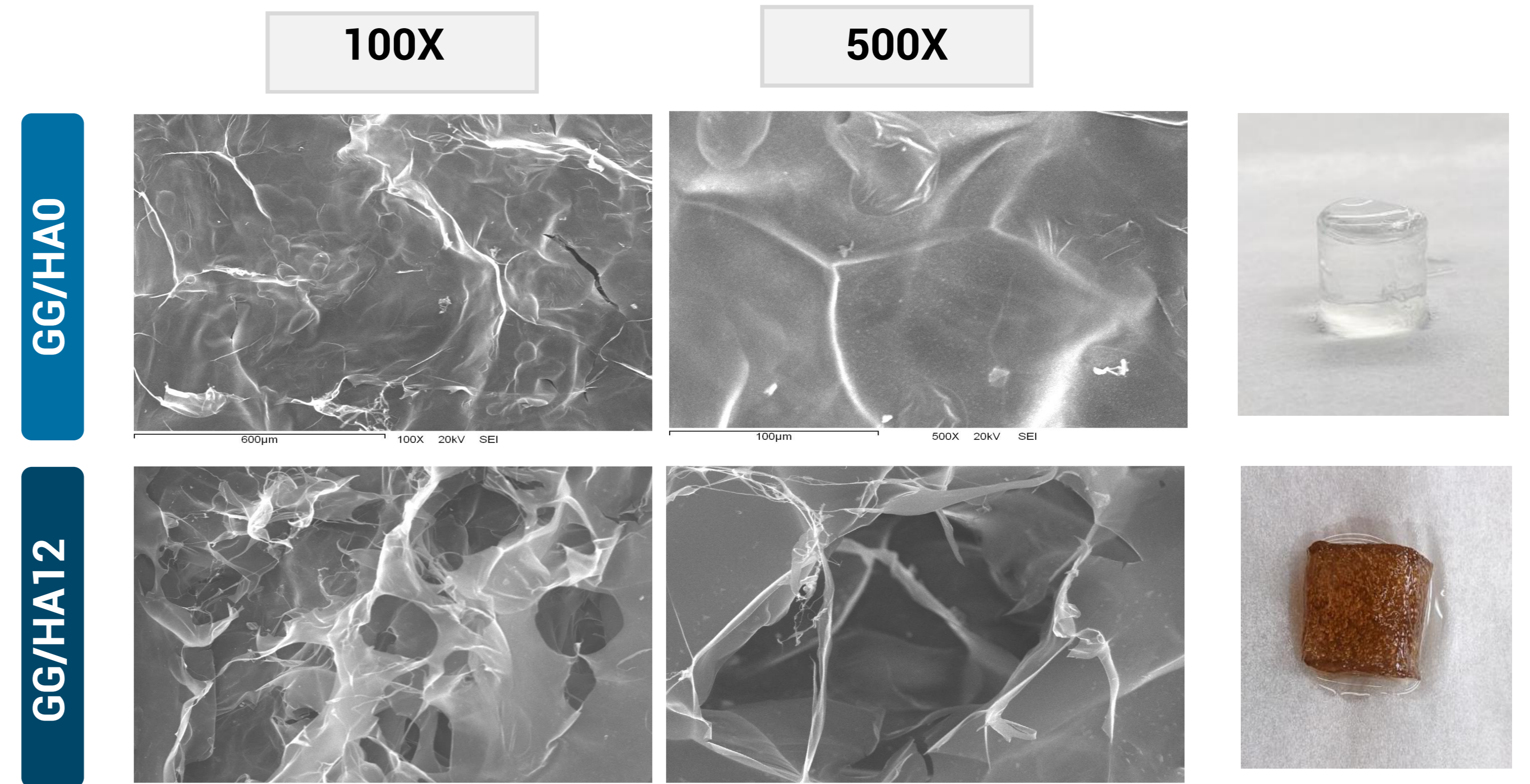
Swelling: soil extract



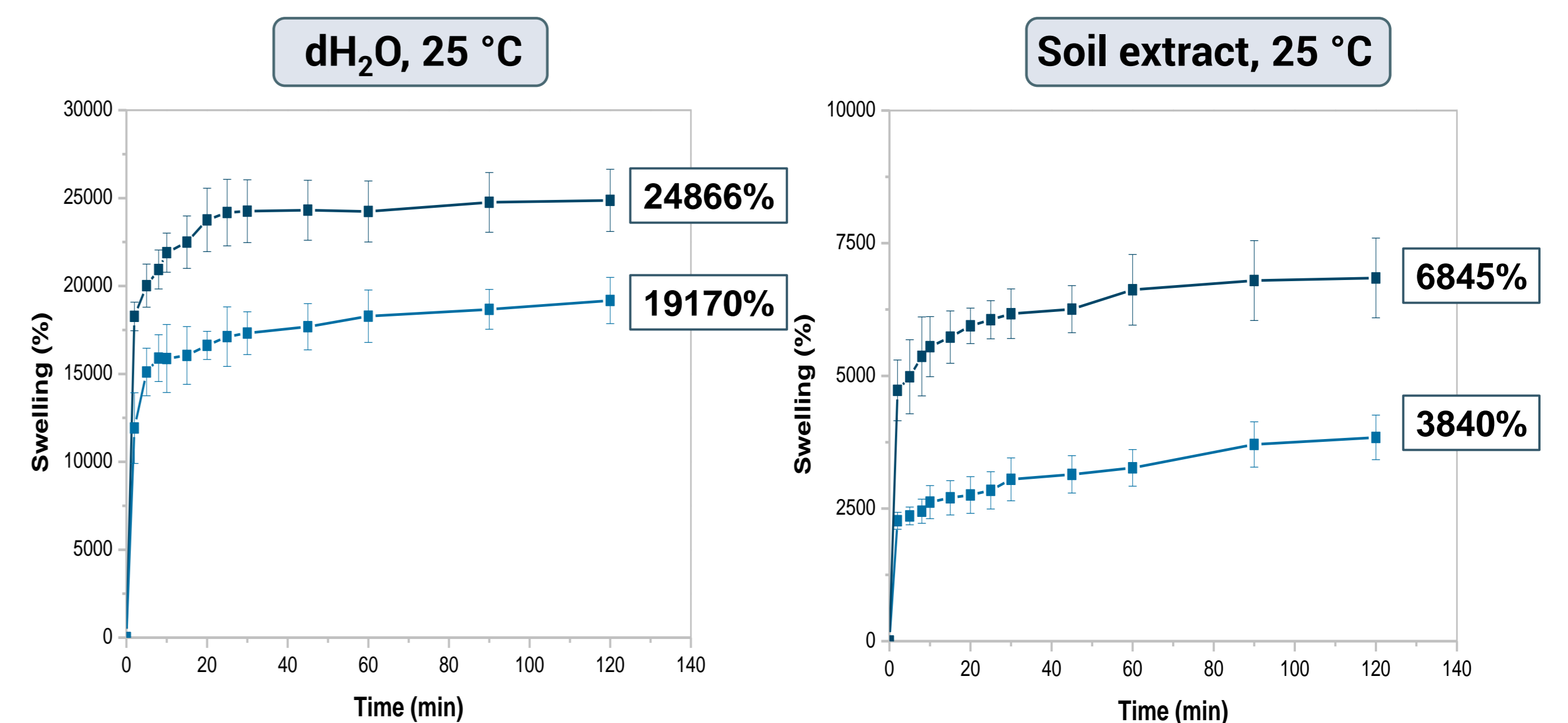
Germination



Results



■ HA ■ GG ■ GG/HA0 ■ GG/HA12



■ GG/HA0 ■ GG/HA12

Sample	Chl a (mg/L)	Chl b (mg/L)	Chl a+b (mg/L)
GG/HA0	4.98	1.86	6.84
GG/HA12	5.70	2.13	7.83
Control	3.05	1.54	4.59

