



**Figure S1.** Comparison of different batches of *B. bifurcata* from France (frozen) for the inhibition of the larval development of *H. polygyrus bakeri*. Percentage inhibition of development of *H. polygyrus bakeri*, from L1-L2 to L3, in presence of water (control), or different batches of *B. bifurcata* at 5 mg/mL. The algae from France were collected in 2019 (FR-1) and 2021 (FR-2, FR-3, FR-4) and were frozen either directly (FR-2), after 24 h at + 4 °C (FR-3), or after 48 h at + 4 °C (FR-1 and FR-3). Results are from at least three independent experiments, with  $n = 6$  per sample each time.

**Table S1.** Mass evaluation of the different organic extractions performed on the two algal batches of *B. bifurcata*, frozen from France and dried from Portugal. These results are obtained from 2 g of freeze-dried aqueous extract.

	Solvent use	Algae frozen from France	Algae dried from Portugal
Mean of the mass after extraction (mg) (percentage of initial biomass (%))	Heptane	9.33 mg (0.47%)	10.13 mg (0.51%)
	EtOAc	32.10 mg (1.61%)	47.9 mg (2.40%)
	BuOH	61.70 mg (3.09%)	52.47 mg (2.62%)

Results are from three independent experiments, with  $n = 6$  per sample each time.