**Supplementary Material 1**

**Protocol for DNA extraction from sea turtles parasites using CTAB**

To extract DNA from sea turtles trematodes using CTAB Buffer, the following procedures were adapted from Stacy (2008) and the manufacturer’s instructions.

**Day 1**

In each 100μL aliquot of the supernatant of each sample, we added:

* 400 μL of TE 1x (10mM TRIS HCl + 1mM EDTA pH 8)
* 50 μL of lysozyme (10mg/ml)

After homogenization, samples were incubated at 37ºC for 1~2 hours. Then, we added to each sample:

* 20 μL of Proteinase K
* 70 μL of SDS (10%)

Samples were vortexed and incubated overnight at 37ºC in a thermoblock.

**Day 2**

After the overnight incubation, we added:

* 100 μL of NaCl 5M
* 100 μL of CTAB/NaCl

After homogenization, samples were incubated at 65ºC for 10 minutes. Then, we added to each sample:

* 750 μL of chloroform/isoamyl alcohol (24:1)

Samples were vortexed for 10 seconds and centrifuged at 12000 RPM for 10 minutes. The supernatant was transferred to new tubes (~600 μL). Then, we added:

* 600 μL of isopropanol or 2-propanol

The tubes must be kept in the freezer at -20º for 30 minutes. Then, samples were centrifuged at 12000 RPM for 10 minutes. The supernatant was discarded by inversion in sodium hypochlorite. For each sample, we added:

* 100 μL of 70% ethanol

Tubes were centrifuged at 12000 RPM for 5 minutes and incubated at 56ºC. The supernatant was discarded by inversion. Finally, samples were eluted in TE buffer ~ 30 μL and incubated at 56º for 30 minutes. DNA was stored at -20º freezer.

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**References**

Stacy, B. A. (2008). *Spirorchiid trematodes of sea turtles in Florida: Associated disease, diversity, and life cycle studies* (Doctoral dissertation, University of Florida).