

Budget Explanation

To quantify chlorophyll for the symbiont communities of *Orbicella faveolata* and *Orbicella franksi*, the materials that will need to be purchased are 8L of acetone, 96 Well quartz plates (2x 100 pk), and 2L of ethanol. The acetone will be used to re-suspend samples before the chlorophyll analysis. The 96 Well quartz plates will be used with a multi-mode reader to measure the chlorophyll content of the symbiont community. Lastly, the 2L of ethanol will be used to clean tools and surfaces between each sample.

To quantify the cell density of the symbiont communities of *Orbicella faveolata* and *Orbicella franksi*, the materials that will need to be purchased are Kimwipes (20 boxes), a tally counter (set of 2), glass pipettes (case of 1440), and pipette bulbs (24). The Kimwipes are sterile wipes that will be used to clean off the Haemocytometer between cell count samples. The tally counter will be used to count the symbiont cells in each sample. The glass pipettes will be used to aliquot the samples into the Haemocytometer. Lastly, the pipette bulbs will be used to aliquot samples into the Haemocytometer.

The materials necessary for the DNA ITS2 amplification and sequencing have previously been purchased.