



### ABSTRACT

The developing countries like the Philippines mostly rely on traditional medicines. This medicine involves the use of plant extracts. This study provides health application of Lipote (*Syzygium curanii* L.), a native berry in the Philippines that contributes in the field of science by investigating the secondary plant metabolites present in roots, stems and seeds and to determine if this plant samples using BSTA may exhibit cytotoxic activity which may become a potent drug in curing prevailing disease like cancer. The phytochemical screening revealed the presence of alkaloids, tannins, flavonoids, saponis, terpenoids and cardiac glycoside among all the samples of the species studied. The BSTA determines the  $LC_{50}$  of the samples. All of the sample exhibit cytotoxic activity against the test species and rank based on the most to the least compared with a standard drug for anti-cancer. The root n-butanol extract exhibited the most cytotoxic activity and the stem n-butanol extract exhibited the least cytotoxic activity.