

**Supplemental Table 1—**

Table of sampled species. Species are arranged according to their hierarchical taxonomic rank. The total individuals sampled indicate the total number of individuals for the given species that were sampled and that produced resolvable chromatograms. Numbers in parenthesis represent the number of individuals that we sampled but which did not produce resolvable chromatograms; number not included in total.

Taxonomic classification	Total Individuals Sampled
<b>Subgenus Portentosa</b>	
<b>Subgenus Acropera</b>	
<b>Section Acropera</b>	
<i>G. galeata</i> Lindley	3
<b>Section Armeniaca</b>	
<b>Section Cassidea</b>	
<i>G. cassidea</i> Rchb.f.	2
<b>Subgenus Gongora</b>	
<b>Section Gongora</b>	
<i>G. aceras</i> Dressler	2
<i>G. aromatica</i> Rchb.f.	1
<i>G. chocoensis</i> Jenny	1 (1)
<i>G. clavidora</i> Dressler	1
<i>G. cruciformis</i> Whitten & D.E.Benn	1
<i>G. fulva</i> Lindley	2
<i>G. gracilis</i> Jenny	3
<i>G. ilense</i> Whitten & Jenny	1
<i>G. leucochila</i> Lemaire	1 (2)
<i>G. aff. odoratissima</i> Lemaire	1
<i>G. pleiochroma</i> Rchb.f.	17 (3)
<i>G. powellii</i> Schlechter	7
<i>G. aff. quinquenervis</i> Ruiz & Pavon	2
<i>G. rufescens</i> Jenny	1
<i>G. sp. (Brazil)</i>	1
<i>G. sp. Chemotype A</i>	6
<i>G. sp. Chemotype M</i>	4
<i>G. sp. Chemotype S</i>	2
<i>G. superflua</i> Rchb.f.	1 (2)
<i>G. tricolor</i> [Lindley] Rchb.f.	1
<i>G. aff. unicolor</i> Schlechter	6 (2)
<b>Section Gratulabunda</b>	
<b>Section Grossa</b>	
<i>G. grossa</i> Rchb.f.	5
<b>Section Truncata</b>	
<i>G. scaphephorus</i> Rchb.f. & Warsc.	1
<i>G. sphaerica</i> Jenny	2
<i>G. tracyana</i> Rolfe	2
<i>G. truncata</i> Lindley	1