

**Table 4c: (Table 3S)** Tukey's post-hoc analysis shows the pair-by-pair comparison of  $\alpha$ -glucosidase IC<sub>50</sub> ( $\mu\text{g/mL}$ ) activity across all treatment types.

Tukey's Post-hoc Multiple Comparisons (Dependent Variable: IC <sub>50</sub> $\mu\text{g/mL}$ ) Tukey HSD						
(I) Plant	(J) Plant	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
<i>Ceiba pentandra</i> leaves	<i>Basella rubra</i> leaves	-456.0000*	3.16665	.000	-464.6807	-447.3193
	Control (Quercetin)	50.5667*	3.87834	.000	39.9350	61.1984
<i>Basella rubra</i> leaves	<i>Ceiba pentandra</i> leaves	456.0000*	3.16665	.000	447.3193	464.6807
	Control (Quercetin)	506.5667*	3.87834	.000	495.9350	517.1984

Control (Quercetin)	<i>Ceiba pentandra</i> leaves	-50.5667*	3.87834	.000	-61.1984	-39.9350
	<i>Basella rubra</i> leaves	-506.5667*	3.87834	.000	-517.1984	-495.9350
(I) Solvent	(J) Solvent	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
MeOH	H <sub>2</sub> O	-59.7133*	3.16665	.000	-68.3941	-51.0326
	Control (Quercetin)	248.7100*	3.87834	.000	238.0783	259.3417
H <sub>2</sub> O	MeOH	59.7133*	3.16665	.000	51.0326	68.3941
	Control (Quercetin)	308.4233*	3.87834	.000	297.7916	319.0550
Control (Quercetin)	MeOH	-248.7100*	3.87834	.000	-259.3417	-238.0783
	H <sub>2</sub> O	-308.4233*	3.87834	.000	-319.0550	-297.7916

Based on observed means.

The error term is Mean Square (Error) = 30.083. \*. The mean difference is significant at the 0.05 level.