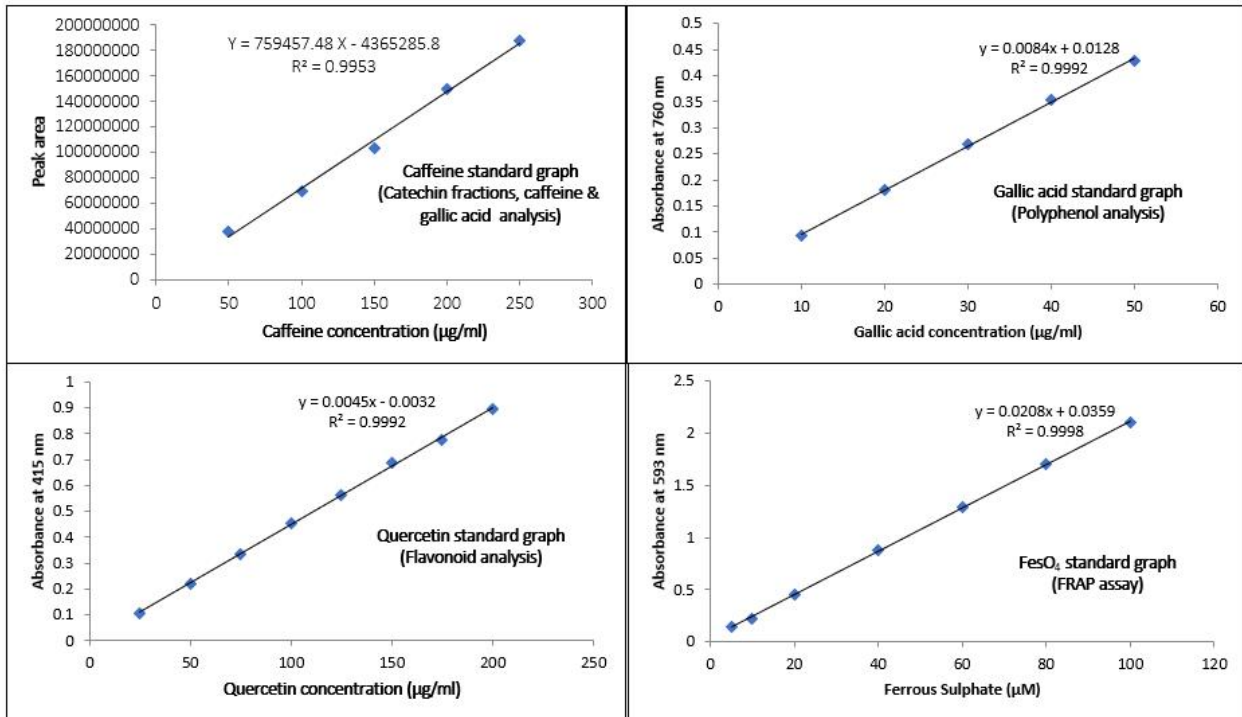


Supplementary Table 1: Standard calibration curve equation and R² (coefficient of determination) values used for analysis of biochemical parameters.

Standard	Standard Curve Equation	R ² value
Caffeine (HPLC)	$y = 759457.48x - 4365285.8$	0.9953
Total Polyphenol	$y = 0.0084x + 0.0128$	0.9992
Flavonoid	$y = 0.0045x - 0.0032$	0.9992
FRAP	$y = 0.0208x + 0.0359$	0.9998



Standard graphs of caffeine, gallic acid (polyphenol), quercetin (flavonoid) and FeSO₄ (FRAP)