

Figure S1: Presence of PLP in bacteria. PLP in bacteria was confirmed with LC-MS/MS analysis where the m/z value of parent ion is 248.0318 and the m/z values of major daughter ions (± 0.0001) are: 94.0656, 122.0602 and 150.0550, at RT: 1.11 ± 0.02 . MS with MS/MS spectra are shown for the combination group as representative. RT: retention time in minutes.

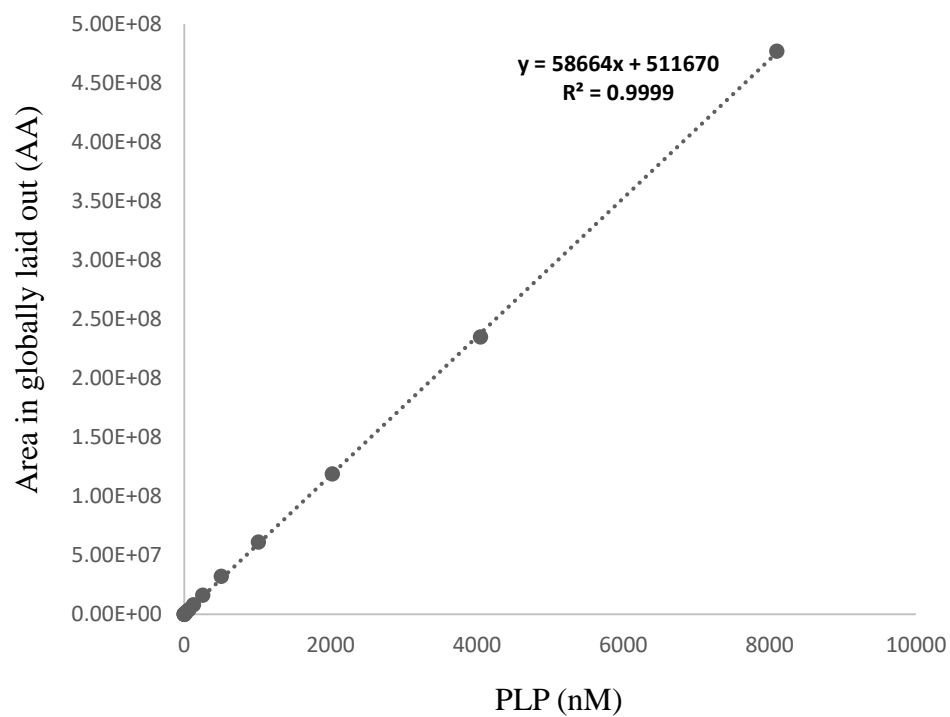


Figure S2: Standard curve including the lowest and highest detectable levels of PLP (for the run measuring PLP in bacteria).

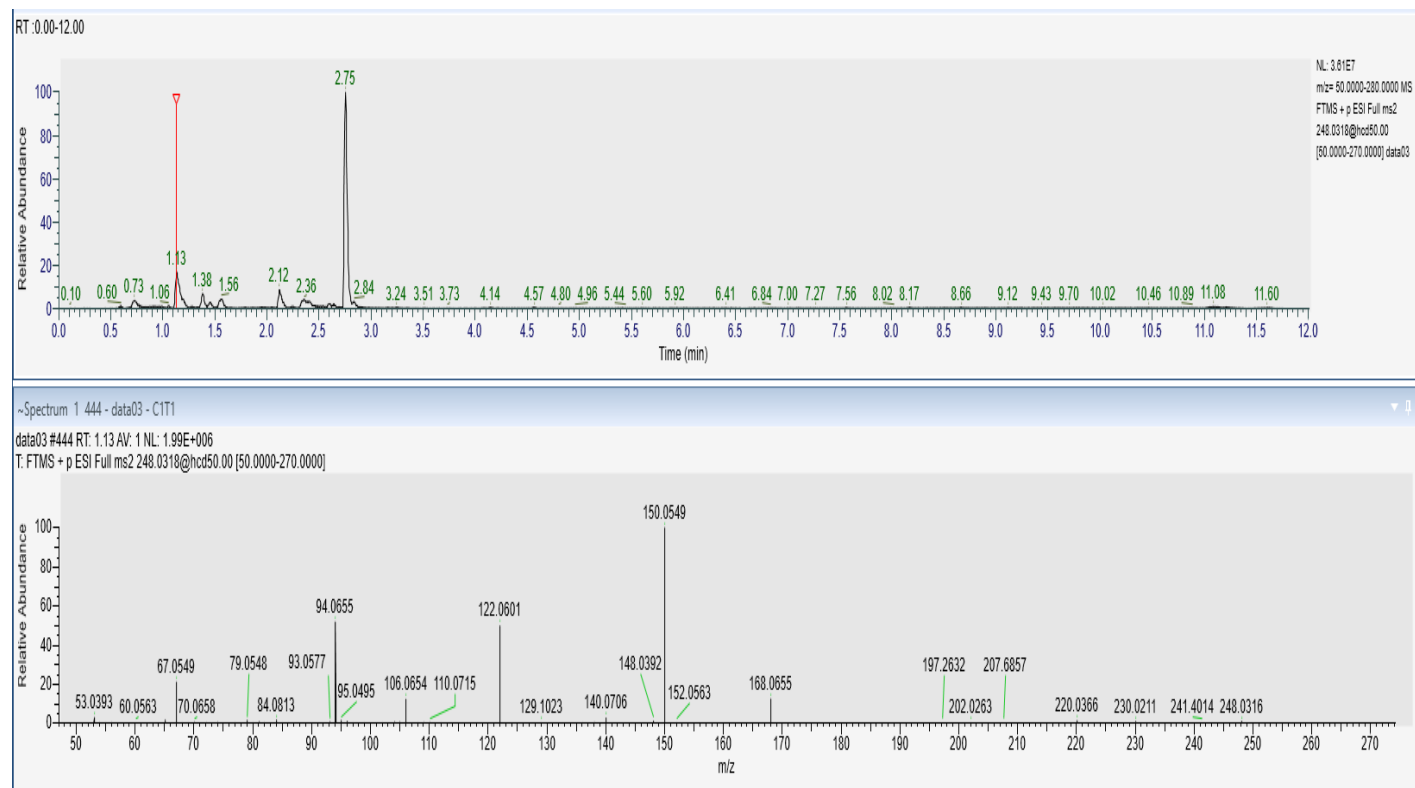


Figure S3: Presence of PLP in worms grown with bacteria. PLP in worms ($n=2,000$) grown with *Chryseobacterium* sp. CHNTR56 MYb120, *Comamonas* sp. 12022 MYb131, combination of both or *E. coli* OP50 was confirmed based on MS spectra (m/z value = 248.0318) and MS/MS spectra [m/z values (± 0.0002) = 94.0655, 122.0601 and 150.0549], at RT: 1.12 ± 0.02]. MS with MS/MS spectra are shown for the combination group as representative.

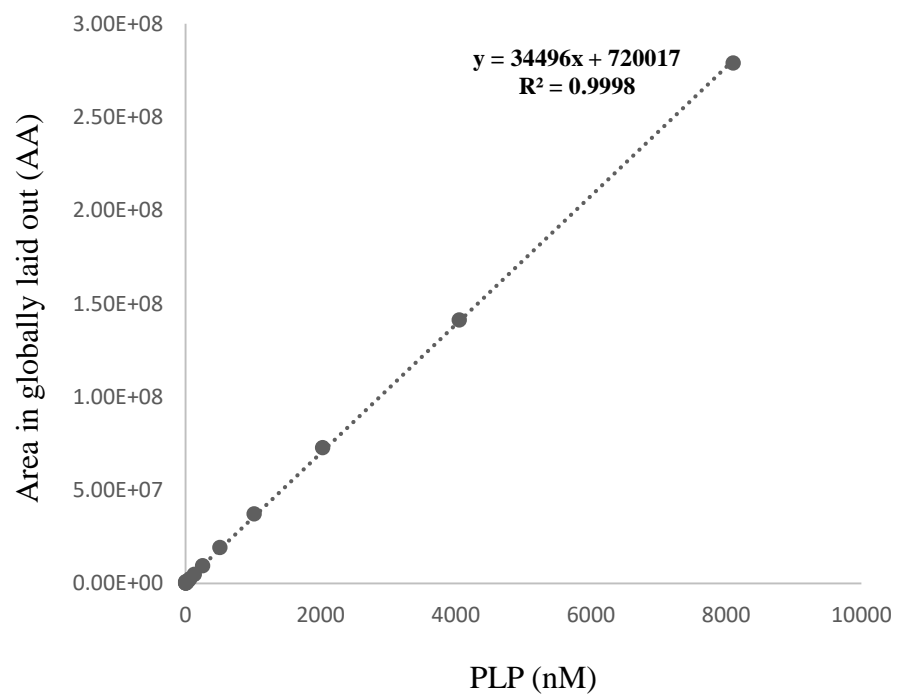


Figure S4: Standard curve including the lowest and highest detectable levels of PLP (for the run measuring PLP in worms).

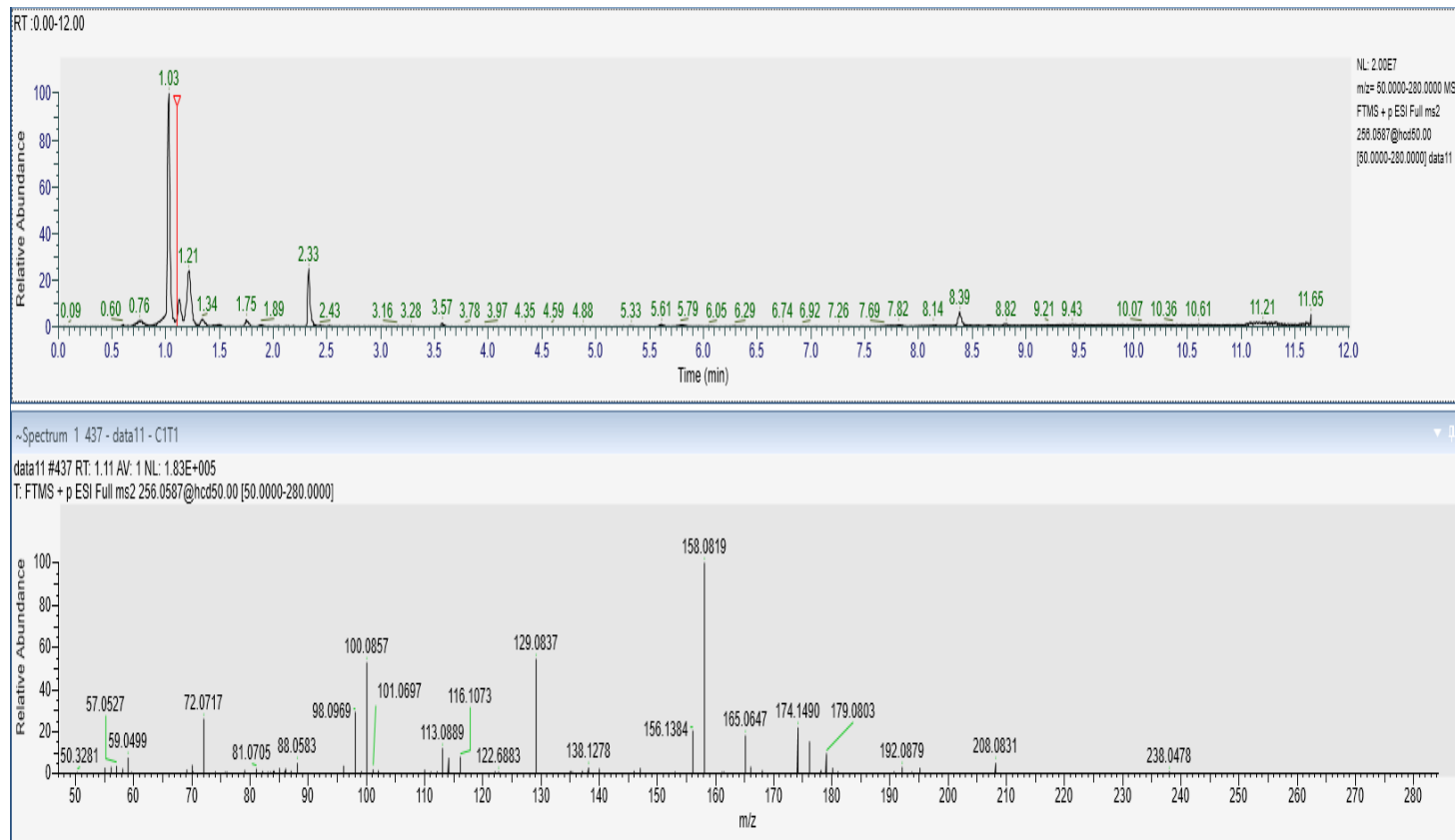


Figure S5: MS spectra and MS/MS spectra of ^{13}C labeled PLP in bacteria. The presence of ^{13}C labeled PLP is apparent in *Chryseobacterium* sp. CHNTR56 MYb120 and in *E. coli* OP50 at the predicted m/z values for MS (256.0587) and for MS/MS [m/z values (± 0.0001) = 100.0856, 129.0836 and 158.0818], at $\text{RT}: 1.11 \pm 0.02$, but not for *Comamonas* sp. 12022 MYb131. MS with MS/MS spectra are shown for the combination group as representative.

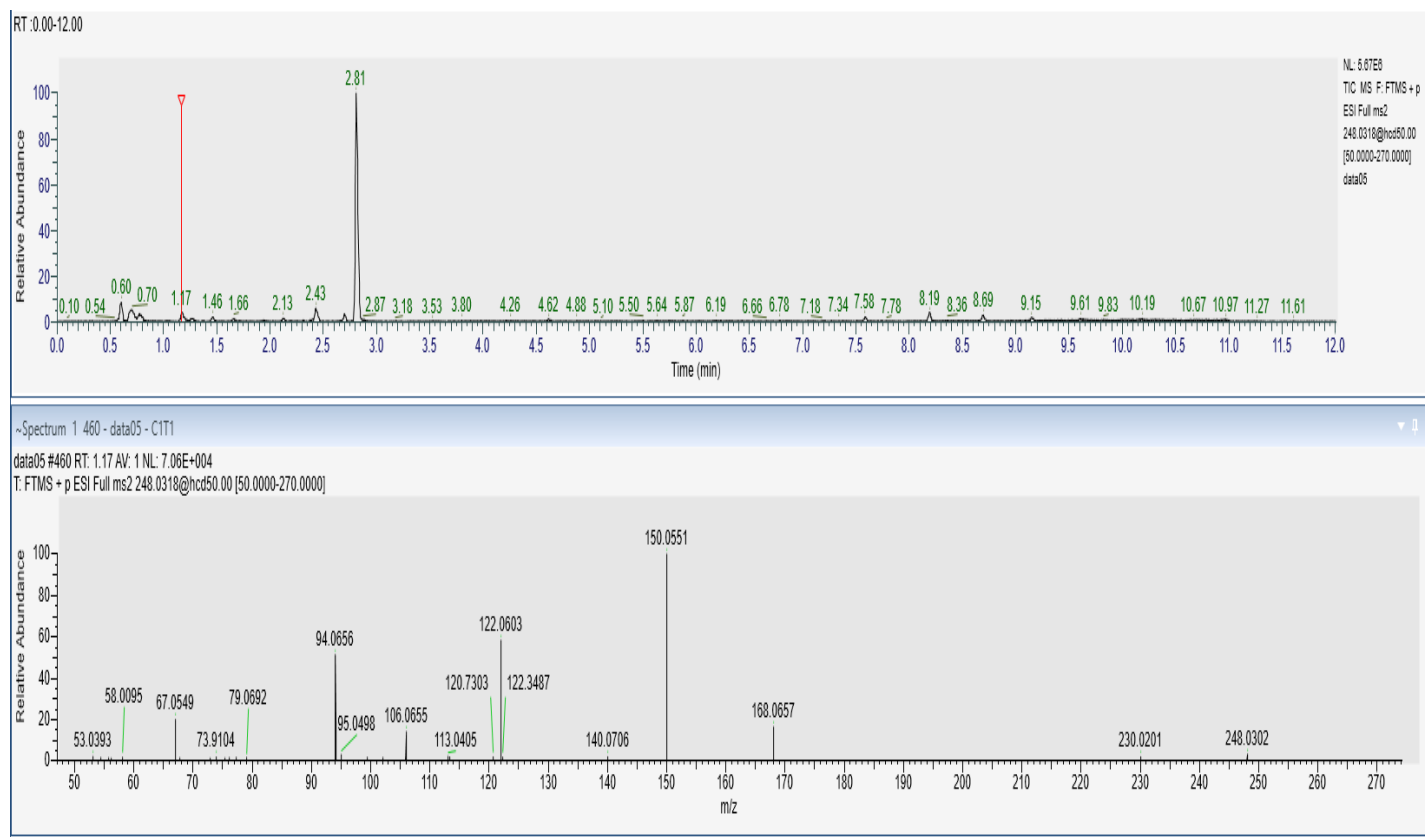


Figure S6: Contribution of PLP by each native bacterial isolate in worms grown with both isolates. ^{12}C and ^{13}C derived PLP in worms grown with the combination of *Comamonas* sp. 12022 MYb131 and *Chryseobacterium* sp. CHNTR56 MYb120 were targeted. The expected m/z values at the MS level (248.0318) and MS/MS level (± 0.0001), which are 94.0656, 122.0603 and 150.0551, for ^{12}C derived PLP are detectable (at RT: 1.17 ± 0.01), while the predicted m/z value at the MS level (256.0587) for ^{13}C derived PLP is not prominent as a peak at any retention time point, indicating PLP is mainly provided by *Comamonas* sp. 12022 MYb131.

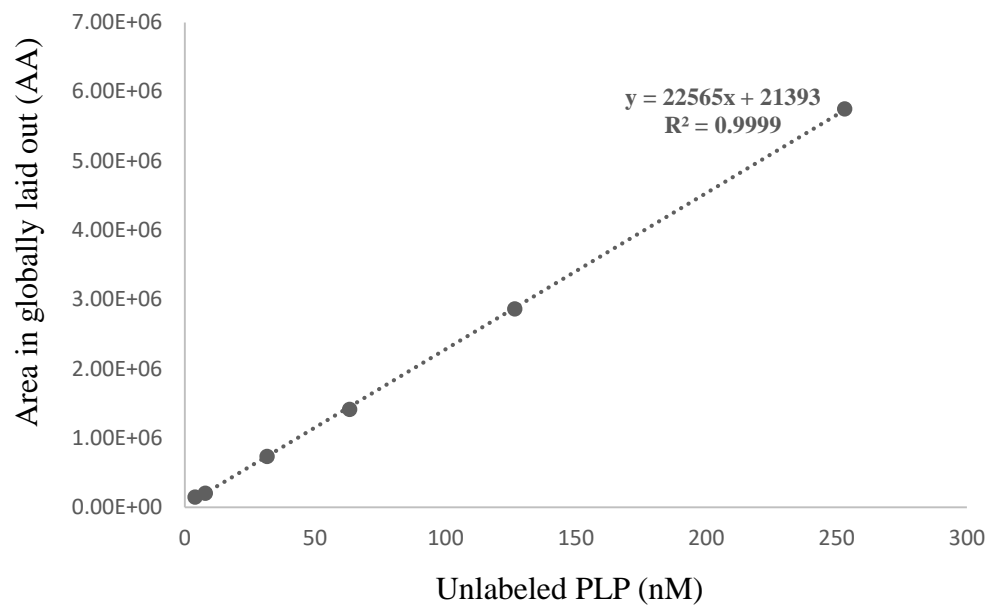


Figure S7: External standard curve. Standard curve including nM concentration of PLP at globally laid peak areas is shown.

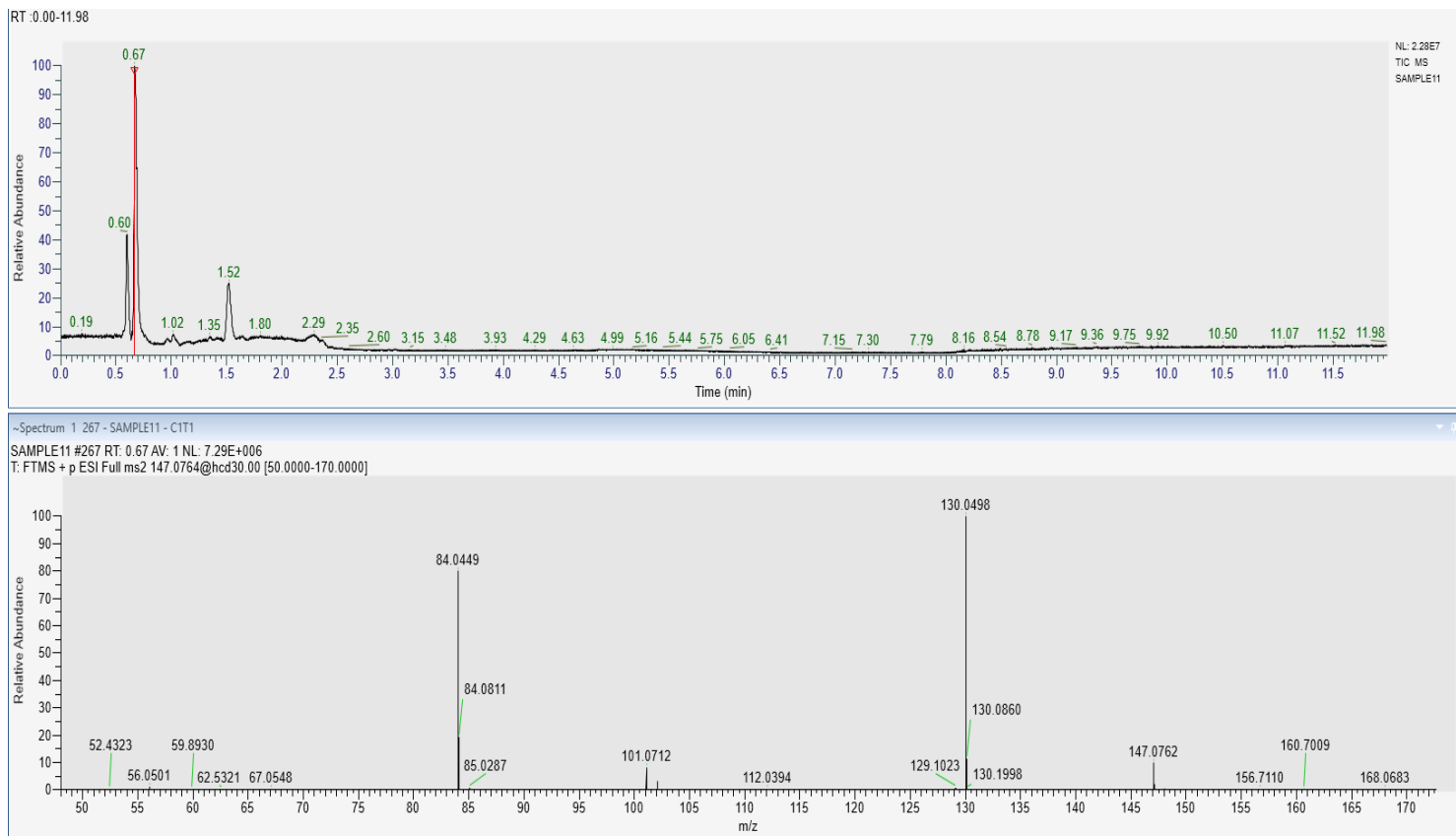


Figure S8: Presence of glutamine in bacteria. Glutamine in bacteria was confirmed with LC-MS/MS analysis where the m/z value of parent ion is 147.0764, with the m/z values of major daughter ions (± 0.0001), which are: 84.0449, 101.0712 and 130.0499, at $RT: 0.67 \pm 0.01$. MS with MS/MS spectra are shown for the combination group as representative.