

Table S-VI

Band [#]	cm ⁻¹	Vibrational origin	Ref. ^{##}
59	1606	C–C stretching in phenylalanine, tyrosine & tryptophan	45
60	1619	C=C stretching in aromatic amino acids	45
61	1638	C4=C5 stretching in imidazole ring of biprotonated histidine (imidazolium) Amide I (β-sheet)	53,93
62	1657	Amide I (α-helix)	53
63	1679	Amide I (random coil)	53
64	1704	Amide I (β-turn)	53
65	1715	Amide I (β-turn) C=O stretching in amino acids	45,53
66	1727	C=O stretching in <i>FapyGua</i> and <i>FapyAde</i> C=O stretching in lipids	54,61
67	1742	C=O stretching in <i>FapyGua</i> and <i>FapyAde</i> C=O stretching in lipids	54,61

[#]Numbers and colors are the same as those of the sub-bands shown in Fig. 9 of the main paper.

^{##}Reference numbers are the same as those listed in the main paper.