

Table S-IV

Band#	cm ⁻¹	Vibrational origin	Ref.##
38	1210	Ring deformation in phenylalanine	45
39	1221	Amide III	11
39*	1236	<i>N</i> -formyl group bending in <i>N</i> -formylkynurenine	98
40	1246	Amide III	11
41	1257	Amide III H-rocking of benzene ring in tryptophan	11,45
42	1269	Amide III	11
42*	1278	CH ₂ wagging, NH ₂ twisting & C–C–H out-of-plane bending in homocysteine	51
43	1291	C–H bending	45
44	1305	CH ₃ /CH ₂ twisting, wagging & bending	45
45	1326	CH ₃ /CH ₂ twisting, wagging	45
46	1337	C–H bending in tryptophan	45
47	1345	C–H bending in tryptophan	45
48	1366	C–N stretching in indole ring of tryptophan	45
48*	1380	C–N stretching in indole ring of fully deprotonated tryptophan	29
49	1393	C–H rocking & CH ₂ deformation	45

[#]Numbers and colors are the same as those of the sub-bands shown in Fig. 7 of the main paper.

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