

Supplementary Materials

Use of *Opuntia ficus-indica* fruit peel as a novel source of mucilage with coagulant physicochemical/molecular

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Table S1. [M+H]⁺ ions masses of the main components of mucilage extracted from OFI fruit peels detected by UPLC-QTOF-MS.

R.T (min)	Relative %	[M+H]⁺	Molecular formula	Identification	Class
0.52	5.2	167.0178	C ₈ H ₇ O ₄	Hydroxybenzoic acid	Polyphenol
0.56	14.1	*	-	Biopolymer	Polysaccharide
0.58	3.9	383.1219	-	-	-
1.95	4.3	279.0549	C ₁₆ H ₂₃ O ₄	-	-
7.21	2.4	263.0602	-	-	-
8.05	1.5	371.2734	-	-	-
8.85	1.7	372.2556	-	-	-
9.13	0.6	457.3461	-	-	-
9.60	3.0	757.2263	-	-	-
9.68	3.4	453.3515	-	-	-
9.80	1.3	215.1806	-	-	-
10.1	1.6	598.4278	-	-	-
10.7	21.3	701.5020	C ₃₃ H ₃₆ N ₂ O ₁₅	Betacyanin derivative	Betalain
15.6	33.5	290.2764	C ₁₅ H ₁₄ O ₆	Catechin	Flavonoid

* See Figure 3 and Table 1 in the main document for mass information.

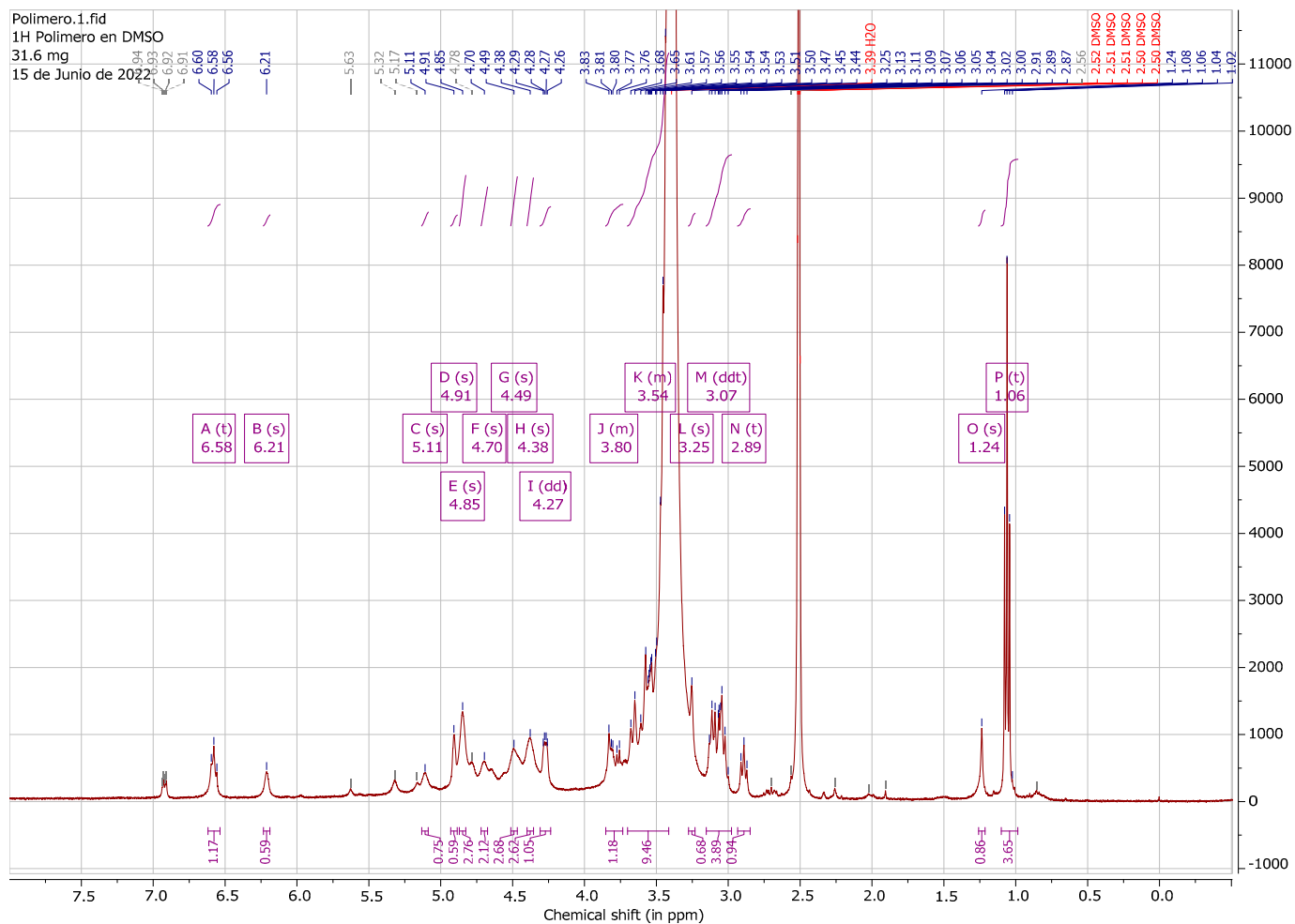


Figure S1. ^1H NMR spectrum (in $\text{DMSO-}d_6$) of a mucilage sample extracted from OFI fruit peels.

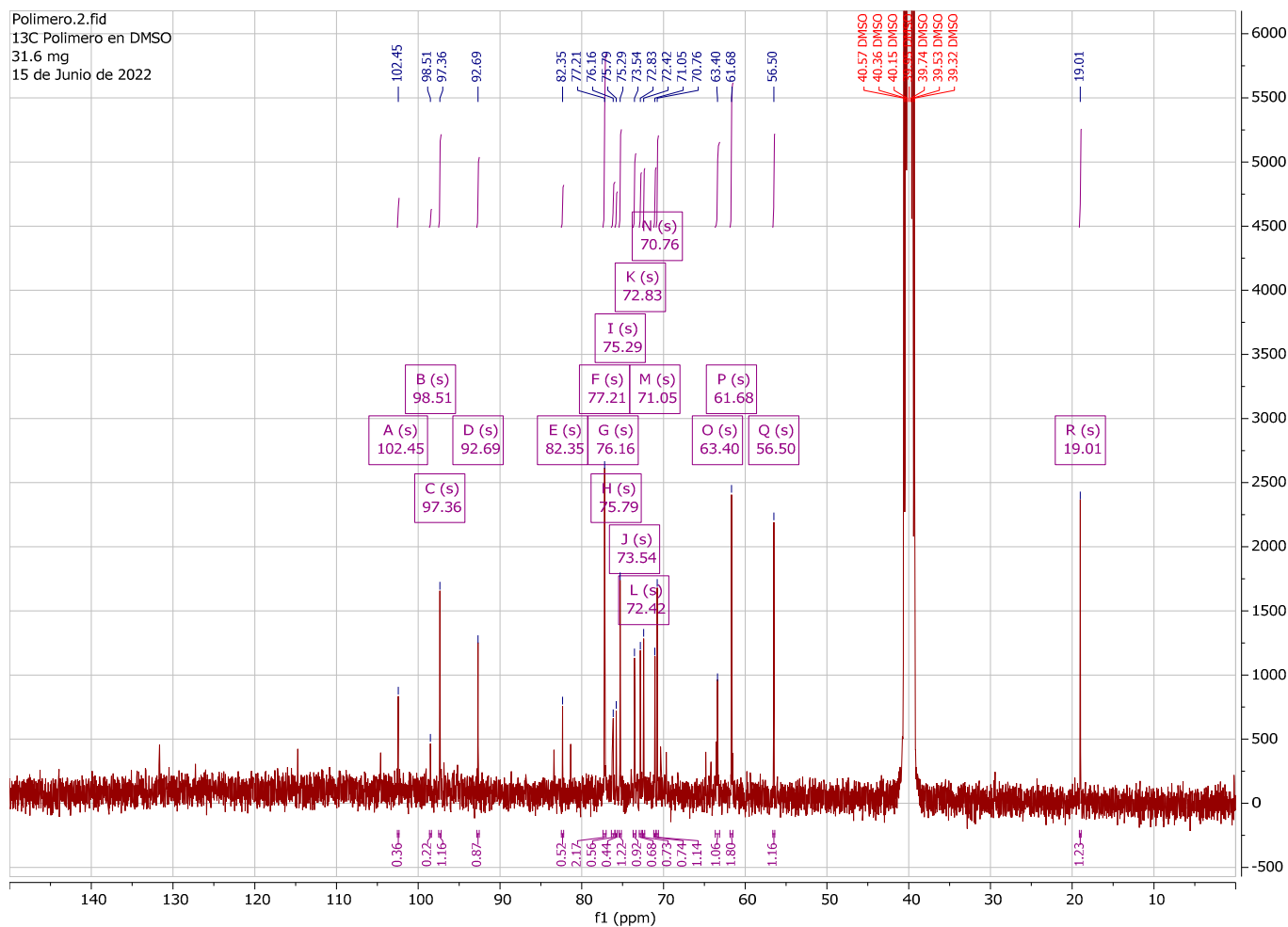


Figure S2. ¹³C NMR spectrum (in DMSO-*d*₆) of a mucilage sample extracted from OFI fruit peels.

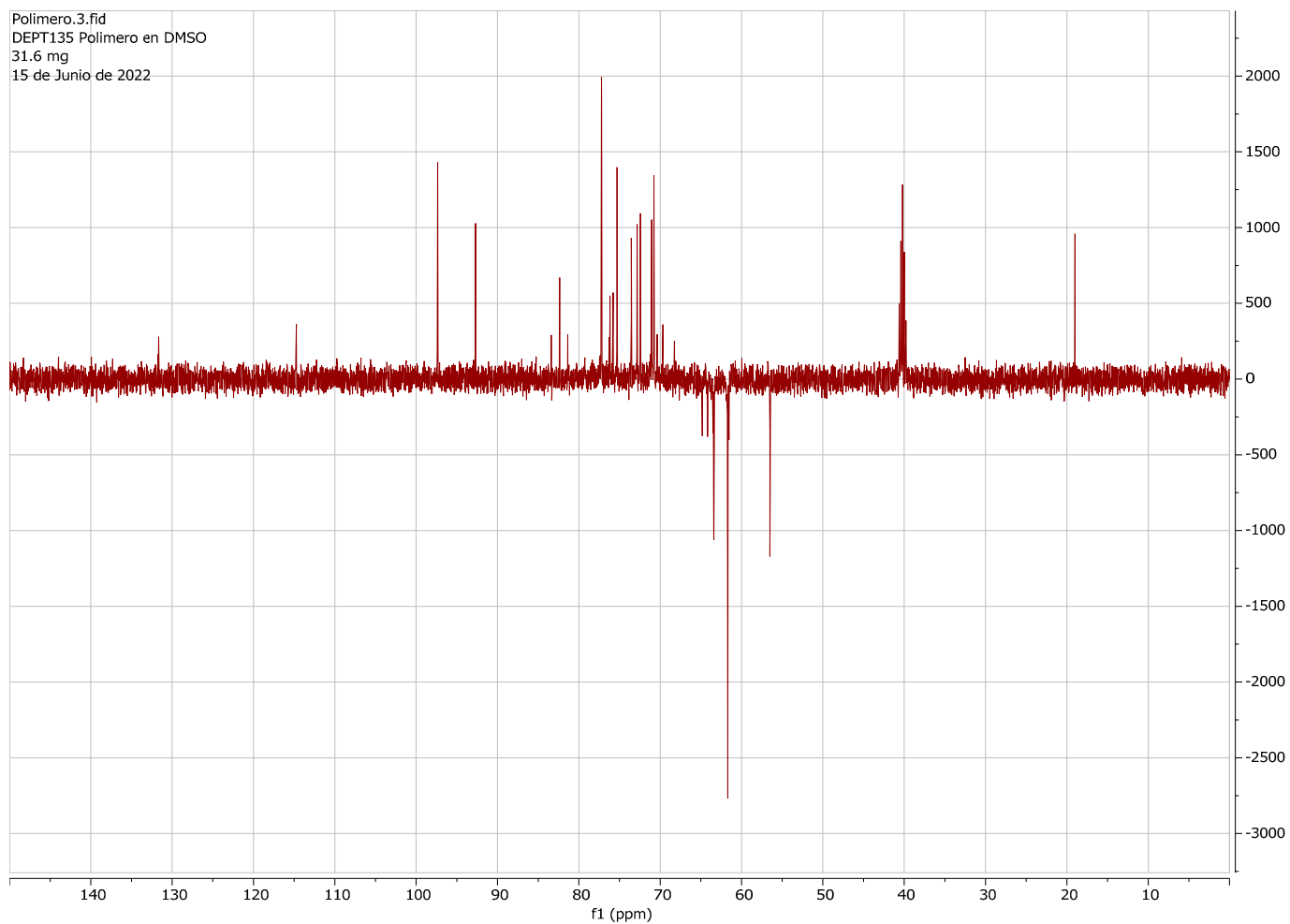


Figure S3. DEPT/ ^{13}C NMR spectrum (in $\text{DMSO-}d_6$) of a mucilage sample extracted from OFI fruit peels.

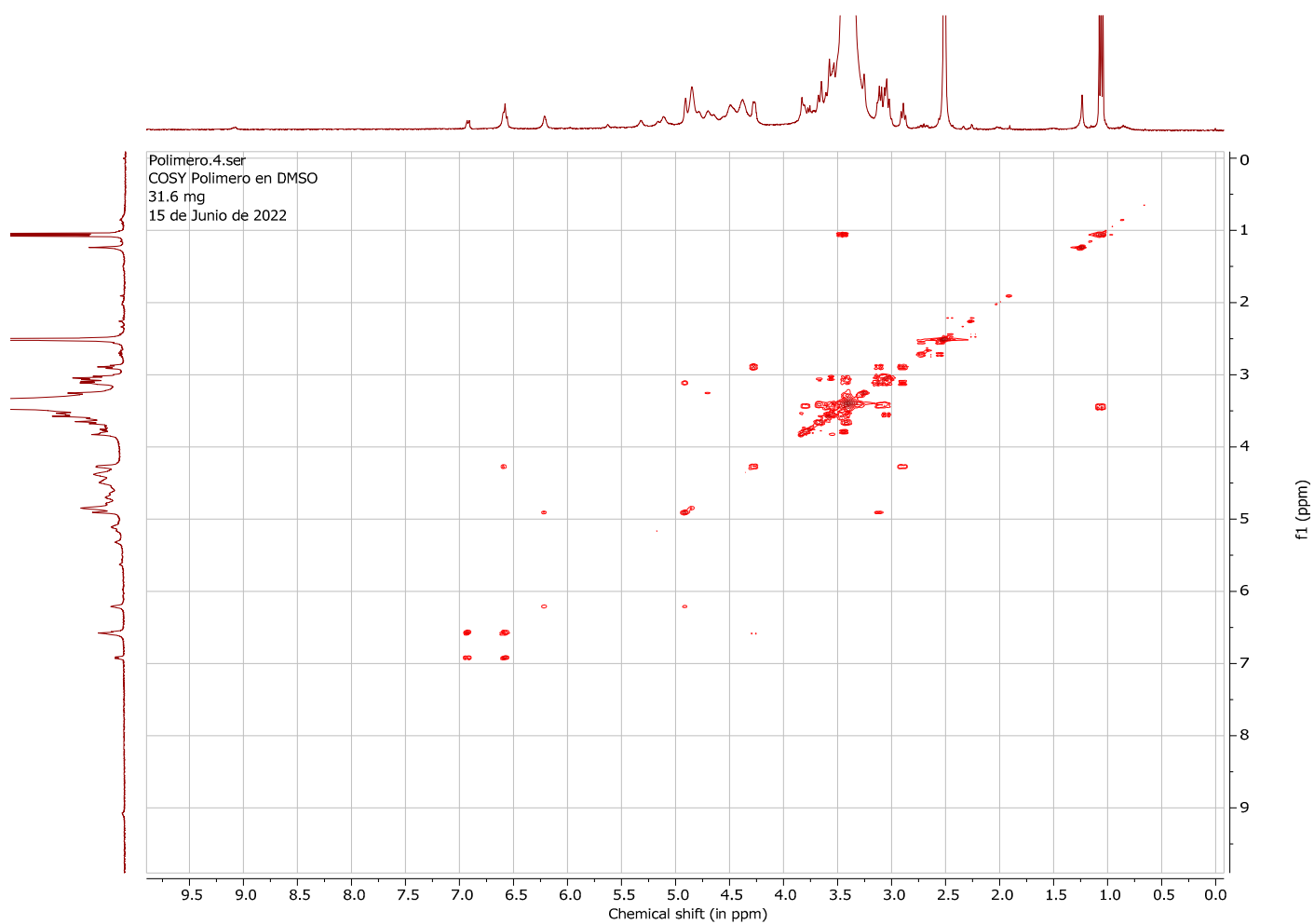


Figure S4. ^1H - ^1H COSY NMR spectrum (in $\text{DMSO-}d_6$) of a mucilage sample extracted from OFI fruit peels.

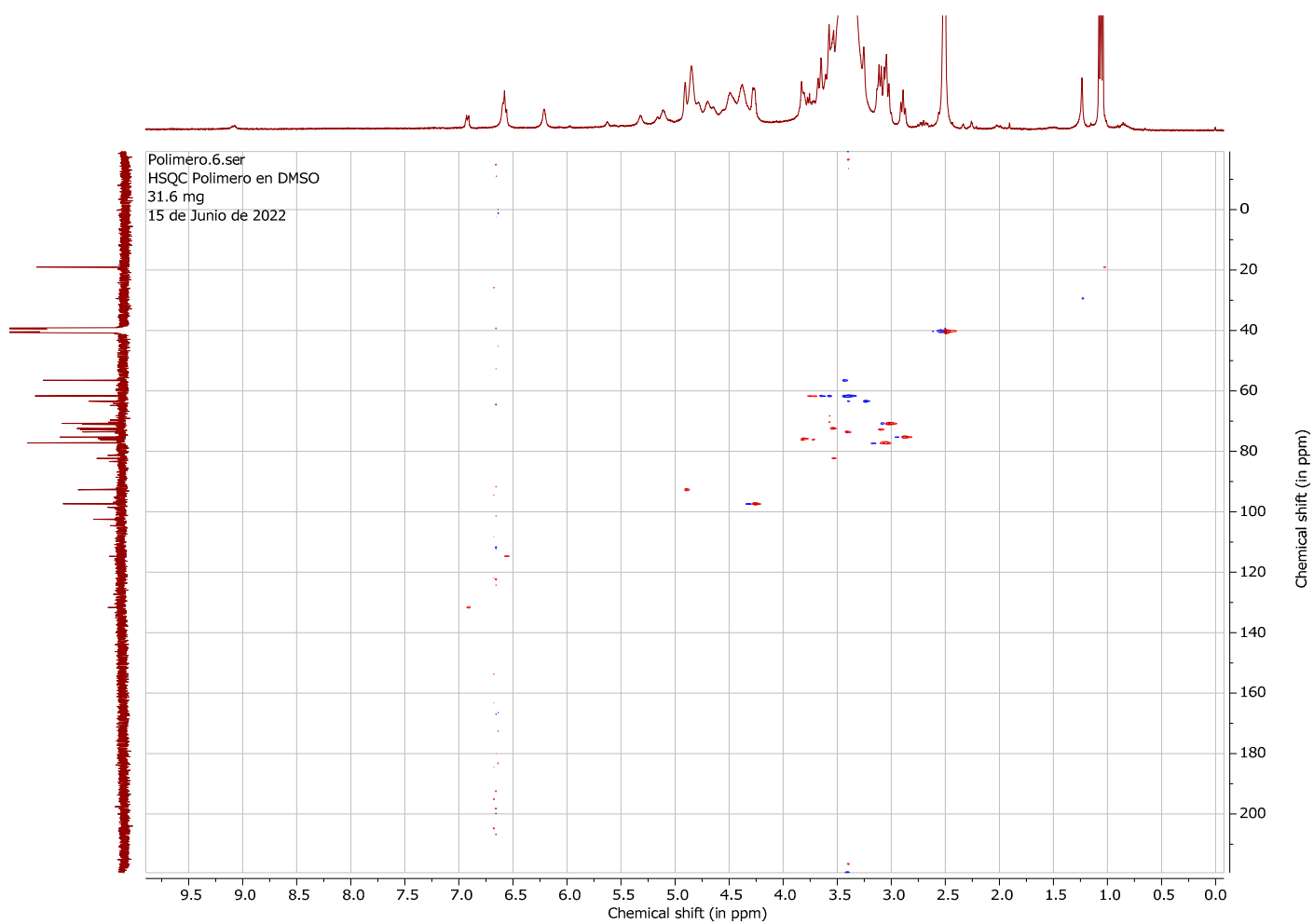


Figure S5. HSQC 2D-NMR spectrum (in DMSO-*d*₆) of a mucilage sample extracted from OFI fruit peels.

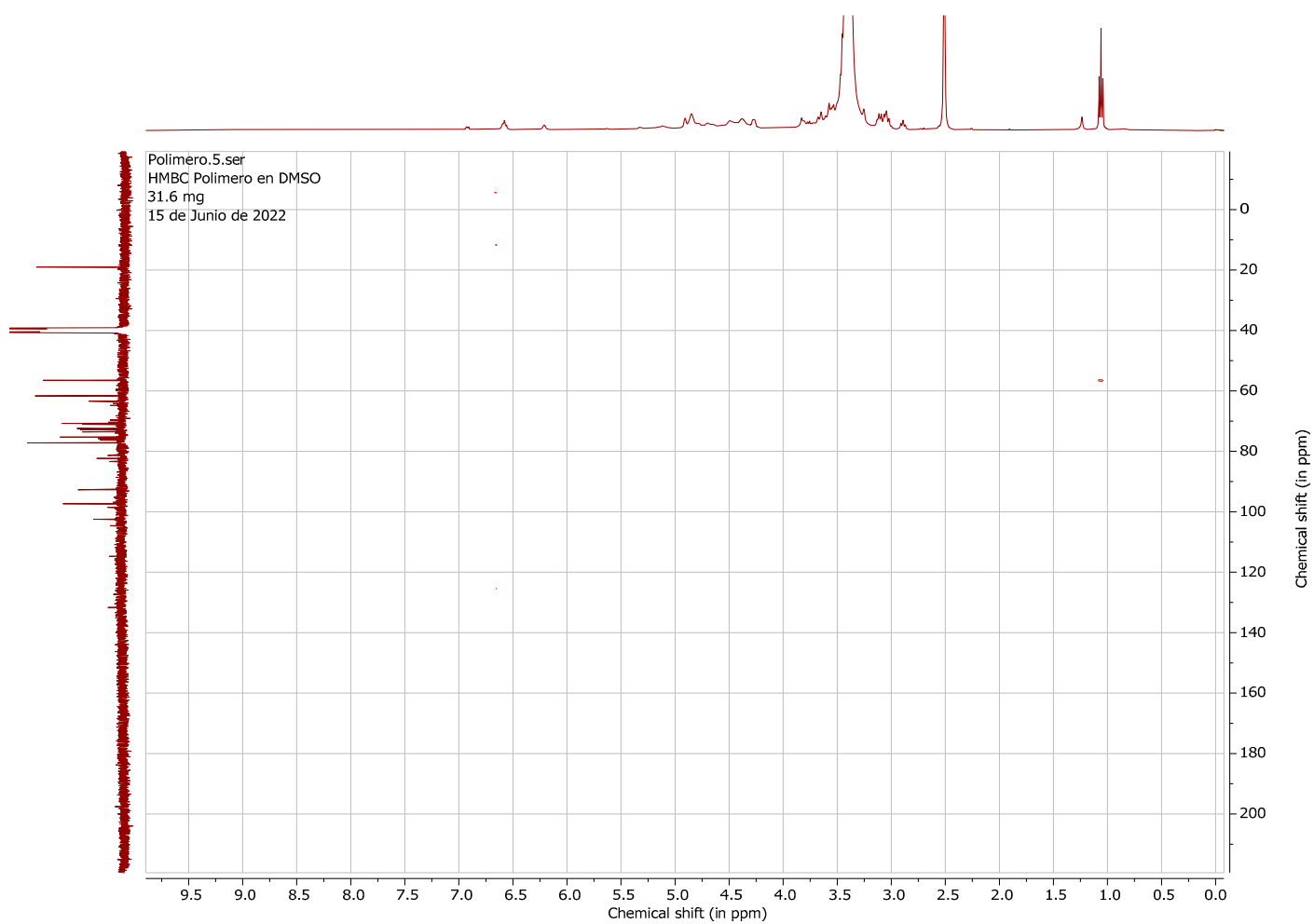


Figure S6. HMBC 2D-NMR spectrum (in DMSO-*d*₆) of a mucilage sample extracted from OFI fruit peels.