Supplementary materials

Table S1. Yield and uronic acid content of GPS and purified fractions #.

	Yield (%)	Uronic acid (%)
GPS	3.18 *	45.9±1.5 ^a
GPS1	7.0 **	55.1±1.2 ^b
GPS1a	5.6***	22.3 ± 0.5^{ef}
GPS1b	39.3 ***	77.6±1.2 ^g
GPS2	38.1**	70.2±0.8°
GPS2a	2.3***	21.0±0.4e
GPS2b	38.4***	81.2±1.3 ^g
GPS3	15.2 **	47.9±0.7 ^a
GPS3a	19.5***	38.0 ± 0.7^{h}
GPS3b	17.9***	61.1 ± 2.0^{i}
GPS4	15.4 **	14.0±0.8 ^d
GPS4a	9.3 ***	24.8±1.9 ^f
GPS4b	36.9***	7.3±0.5 ^j

[#] Data are expressed as mean \pm SD (n = 3) except the yields.

^{*:} calculated based on the dry weight of tea leaves.

^{**:} calculated based on the weight of GPS.

^{***:} calculated based on the weight of DEAE purified fractions.

 $^{^{}a\text{-}j}$ Values followed by the different letter in the same column are significantly different (p < 0.05).

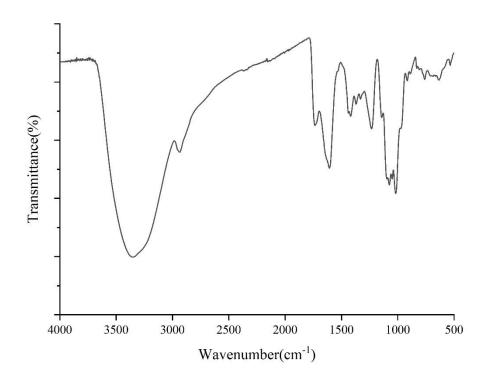


Figure S1. IR spectrum of GPS.

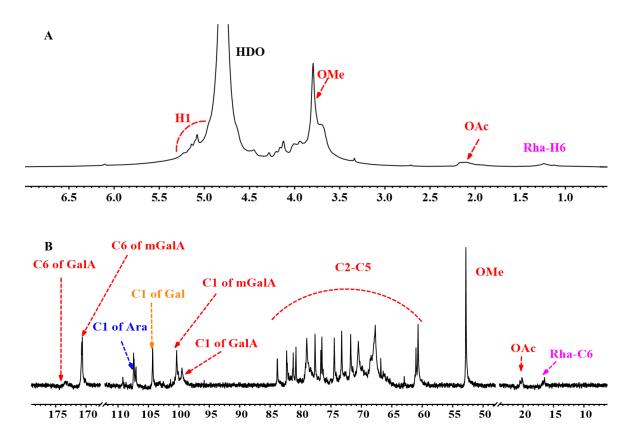


Figure S2. 1D NMR spectra of GPS. A. ¹H NMR spectrum; B. ¹³C NMR spectrum.

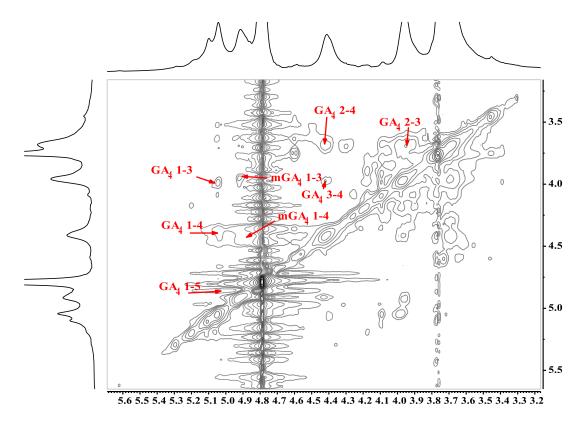


Figure S3. TOSCY spectrum of GPS2b.