

Table S1

Comparisons of EUG extraction yield in literatures and this work.

Organs	Extraction procedures	Yield (%)	References
Bark	Petroleum ether extraction with solid liquid ratio of 1:30 g/mL at 75 °C for 30 min.	10.0	42
Bark	Soaked in 1% NaOH at 70 °C for 2 h, 0.0333 g/mL cellulase hydrolysis at 50 °C for 4 h with a 120 r/min shaker, petroleum ether extraction with solid to liquid ratio of 1:15 g/mL at 80 °C for 2 h.	2.5	43
Bark	Immersing EtOH for 60 h, then EtOH Soxhlet extraction for 20 h, followed by hexane extraction for 20 h under N ₂ .	8.70	44
Leaf	Ethanol extraction at 120°C for 10 h, and then toluene extraction at 150 °C for 12 h.	4.0	45
Leaf	Distilled water extraction at 60 °C for 180 min, 1 M NaOH with a solid-liquid ratio of 1:20 g/mL at 75 °C for 3 h, 20 PFU/g cellulase hydrolysis at 50 °C for 96 h, petroleum ether extractuon at 80 °C for 2 h.	2.0	46
Leaf	Acetone and toluene extraction with a solid-liquid ratio of 1:15 g/mL for 10 h	4.3	47
Pericarp	Grounding into powder, petroleum ether extraction at 85 °C for 12 h.	12.0	48
Pericarp	Grounding 2.0 mm powder, toluene extraction with 1:25 g mL ⁻¹ at 75 °C for 24 h.	13.8	49
Pericarp	Limonene extraction with 14 mL g ⁻¹ at 128 °C for 1.7 h	8.11	50
Pericarp	Composite enzyme pretreatment assisted with PEG-4000 aqueous solvent biphasic system	15.26	This work

Table S2 T_g , T_m and ΔH_m of EUG-1, EUG-2 and EUG-3.

Samples	T_g (°C)	T_m (°C)		ΔH_m (J/g)
		α	β	
EUG-1	-74.2	51.2	61.5	54.9
EUG-2	-74.5	43.2	63.4	67.9
EUG-3	-74.7	42.7	62.2	60.7

Table S3

Tensile testing results of EUG-1, EUG-2 and EUG-3

Sample	Tensile strength (Mpa)	Elongation at break (%)	Elasticity modulus (Mpa)
EUG-1	17.09 ± 0.75	325.39 ± 2.81	113.01 ± 1.45
EUG-2	14.79 ± 0.40	240.71 ± 1.21	158.28 ± 0.92
EUG-3	17.86 ± 0.79	367.85 ± 2.33	153.55 ± 2.62