

Table S1. Chemical characterization of PS

Content	Parameters	Value
Essential component (%)	moisture	11.12±0.87
	ash content	5.08±0.05
	protein	19.48±2.04
	total sugar	61.32±1.30
	reducing sugar	0.89±0.03
Mass ratio of monosaccharides	mannose	3.36
	glucosamine	39.44
	galactosamine	9.72
	glucose	20.85
	galactose	26.63
Molecular weight (Da)		2.538×10 ⁵