

Supplementary data

Preparation Optimization of Dialdehyde Soybean Polysaccharide by Response Surface Methodology for Cleaner Leather Tanning

Haolin Zhu ^a, Hui Liu ^{a,b}, Keyong Tang ^{a,*}, Jie Liu ^a, Xuejing Zheng ^a, Ying Pei ^a,
Jide Zhong ^c

^a School of Materials Science and Engineering, Zhengzhou University, Zhengzhou, 450001, PR
China

^b Department of Packaging Engineering, Henan University of Science and Technology, Luoyang
471023, PR China China

^c Henan Prosper Skins & Leather Enterprise Co., Ltd, Mengzhou 454750, PR China

* Corresponding authors. E-mail addresses: kytangzzu@hotmail.com

It was fatliquored according to the processes shown in Table S1

Table S1. Fatliquoring processes

Process	Chemicals	Quantity/%	Duration/min	Temperature/°C	pH
Neutralization	Water	200		30	
	Neutralizing agent ^[a]		120		6
Fatliquoring	Water	200		50	
	Fatliquor	10	120		
Washing	Formic acid		60		3.8
	Water	800	10	25	

^[a] Sodium bicarbonate (10%) for traditional chrome tanning; formic acid (1%) for DPA tanning.

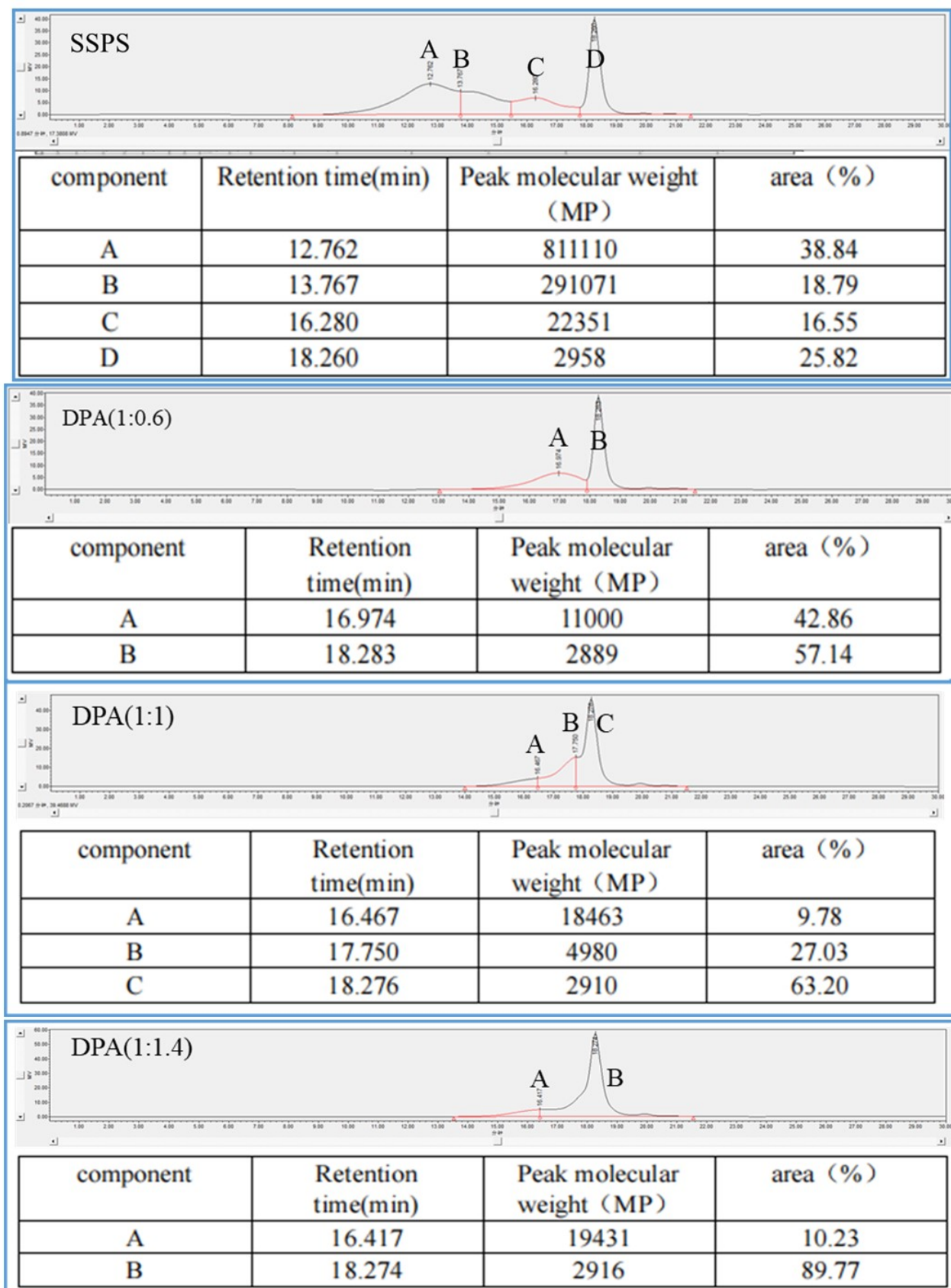


Fig. S1. GPC diagram and peak molecular weight of SSPS and different DPAs.