

Supplementary materials

Reaction Characteristics of Organosolv Fractionation Process for Selective Extraction of Carbohydrates and Lignin from Rice Husks

Tae Hoon Kim ^{1,2}, Hyun Kwak ¹, and Tae Hyun Kim ^{2,*} Kyeong Keun Oh ^{1,3,*}

¹ R&D Center, SugarEn Co., Ltd., Yongin 16890, Gyeonggi-do, Korea; thkim@sugaren.co.kr (T.H.K.); hkwak@sugaren.co.kr (H.K.)

² Department of Materials Science and Chemical Engineering, Hanyang University, Ansan 15588, Gyeonggi-do, Korea

³ Department of Chemical Engineering, Dankook University, Youngin 16890, Gyeonggi-do, Korea

* Correspondence: hitaehyun@hanyang.ac.kr (T.H.K.); kkoh@dankook.ac.kr (K.K.O); Tel.: +82-31-400-5222 (T.H.K.); +82-31-8005-3548 (K.K.O)

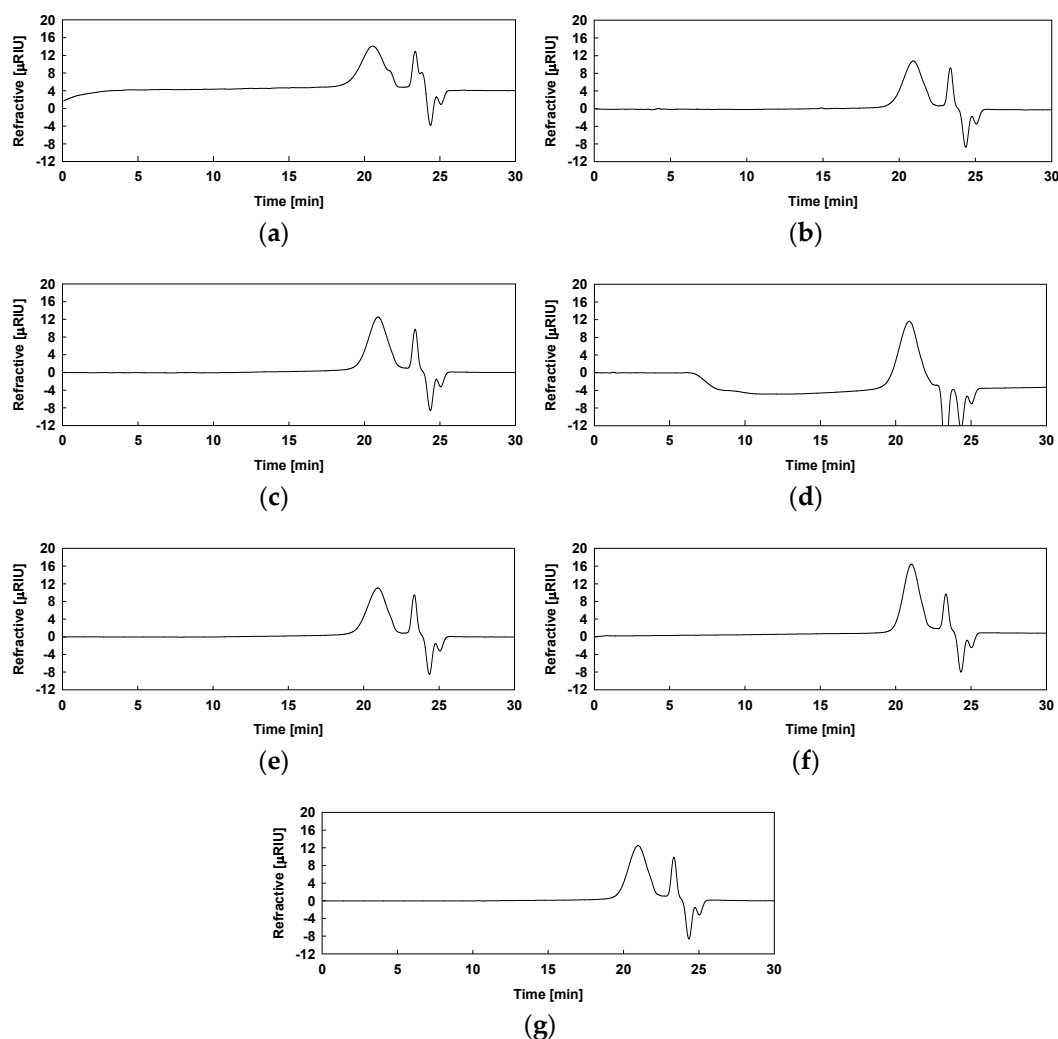


Figure S1. GPC profile of precipitated lignin on various reaction conditions (reaction temperature, time and ethanol concentration); (a) 150 °C, 120 min, 80%, (b) 170 °C, 120 min, 80%, (c) 190 °C, 120 min, 80%, (d) 170 °C, 30 min, 80%, (e) 170 °C, 60 min, 80%, (f) 170 °C, 120 min, 40%, (g) 170 °C, 120 min, 60%.