

Supplementary Information

Synthesis of 5-Hydroxymethylfurfural from Dehydration of Fructose And Glucose Using Ionic Liquids

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Following are HPLC Chromatograms and Areas of peaks:

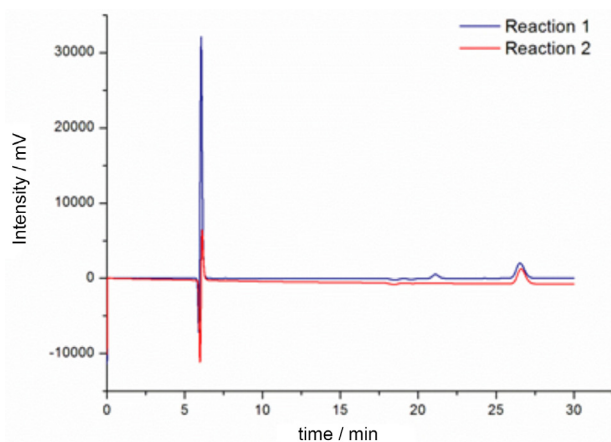


Figure 1. HPLC Chromatograms of reaction 1 and reaction 2.

Table 1. Area HPLC Chromatograms of reaction 1 and reaction 2

Reaction	Area Fructose	Area HMF
1	-	72223,5
2	-	47795

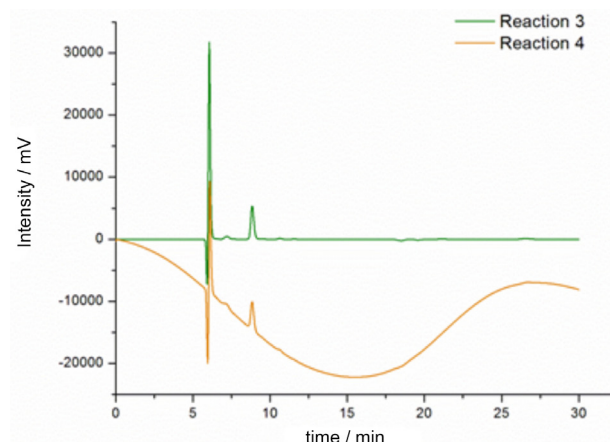


Figure 2. HPLC Chromatograms of reaction 3 and reaction 4.

Table 2. Area HPLC Chromatograms of reaction 3 and reaction 4

Reaction	Area Glucose	Area HMF
3	73750	-
4	62682	-

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#In memoriam

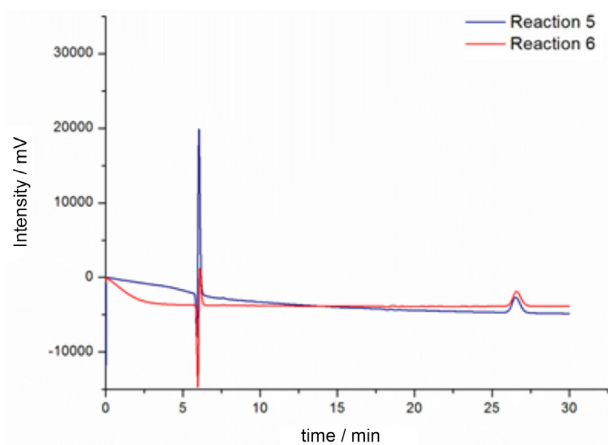


Figure 3. HPLC Chromatograms of reaction 5 and reaction 6.

Table 3. Area HPLC Chromatograms of reaction 5 and reaction 6

Reaction	Area Fructose	Area HMF
5	-	73245,5
6	-	70711,5

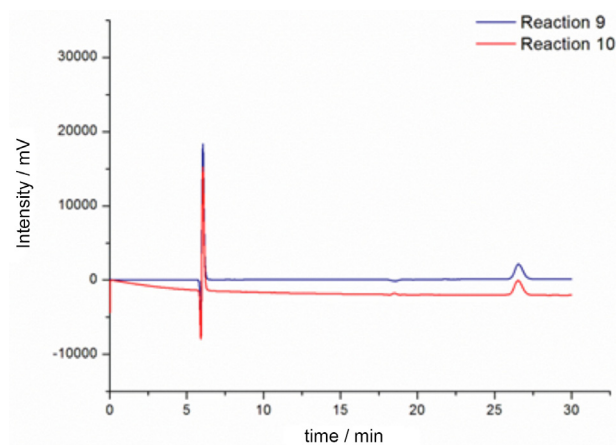


Figure 5. HPLC Chromatograms of reaction 9 and reaction 10.

Table 5. Area HPLC Chromatograms of reaction 9 and reaction 10

Reaction	Area Fructose	Area HMF
9	-	70641
10	-	68741

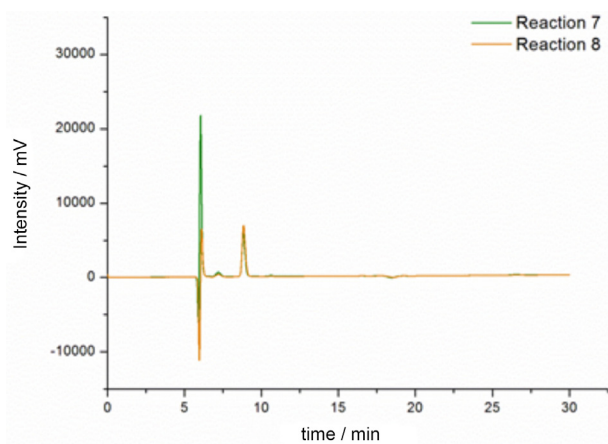


Figure 4. HPLC Chromatograms of reaction 7 and reaction 8.

Table 4. Area HPLC Chromatograms of reaction 7 and reaction 8

Reaction	Area Glucose	Area HMF
7	81652,5	-
8	100626	-

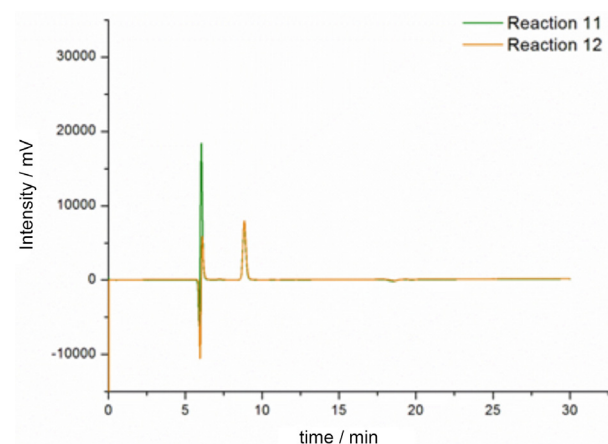


Figure 6. HPLC Chromatograms of reaction 11 and reaction 12.

Table 6. Area HPLC Chromatograms of reaction 11 and reaction 12

Reaction	Area Fructose	Area HMF
11	106383	-
12	112141	-
2	-	47795

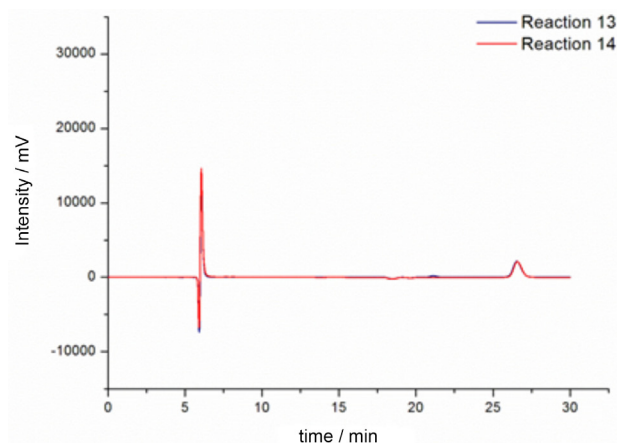


Figure 7. HPLC Chromatograms of reaction 13 and reaction 14.

Table 7. Area HPLC Chromatograms of reaction 13 and reaction 14

Reaction	Area Fructose	Area HMF
13	-	75595
14	-	75239

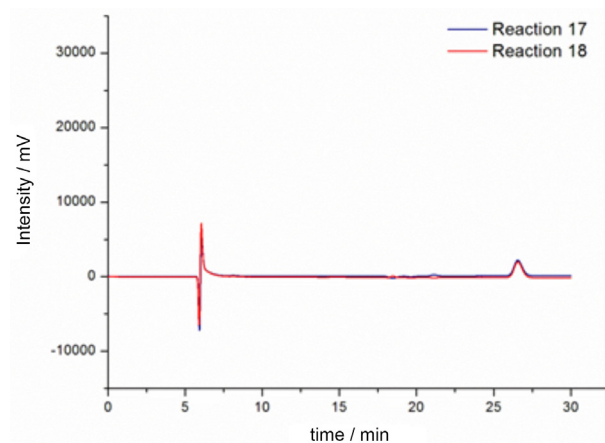


Figure 9. HPLC Chromatograms of reaction 17 and reaction 18.

Table 9. Area HPLC Chromatograms of reaction 17 and reaction 18

Reaction	Area Fructose	Area HMF
17	-	74322,5
18	-	77318,5

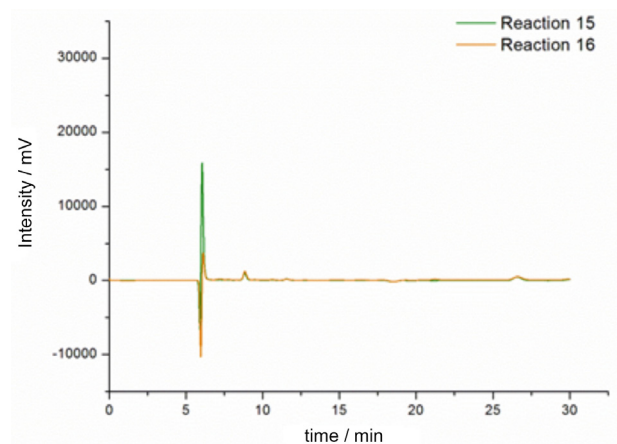


Figure 8. HPLC Chromatograms of reaction 15 and reaction 16.

Table 8. Area HPLC Chromatograms of reaction 15 and reaction 16

Reaction	Area Glucose	Area HMF
15	13736	10724,5
16	16904,5	15435

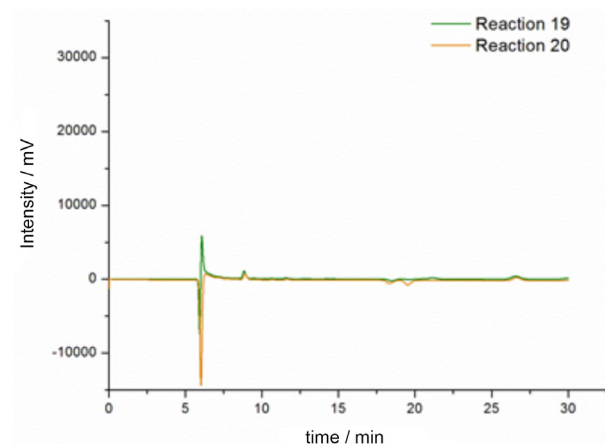


Figure 10. HPLC Chromatograms of reaction 19 and reaction 20.

Table 10. Area HPLC Chromatograms of reaction 19 and reaction 20

Reaction	Area Glucose	Area HMF
19	13981,5	13939
20	10542	15687