

A: AFEX Pretreatment

5L dH₂O

100.0 g CS

37.6±0.8g Glc
25.5±0.3g Xyl
19.4±0.3g ISL^a

AFEX
(62.5% Solids
Loading)

Washing
(5% Solids
Loading)

76.5 ± 1.7 g
Washed AFEX CS

90.8% of
the Input Sugar

35.5±1.4 g Glc
21.8±0.9 g Xyl
19.4±0.3g ISL^a

Wash Stream

0.9±0.0g Mo Glc
0.9±0.0g Mo Xyl
1.3±0.2g Olig Glc
2.8±0.3g Olig Xyl

9.2% of
Input Sugar

B: Dilute Acid Pretreatment

5L dH₂O

100.0 g CS

37.6±0.8g Glc
25.5±0.3g Xyl
19.4±0.3g ISL^a

Dilute Acid
(5% Solids
Loading)

Washing
(5% Solids
Loading)

52.0±0.1 g
Washed Acid CS

51.8% of
Input Sugar

31.5±1.6 g Glc
1.7±0.2 g Xyl
17.1±0.9 g ISL^a

Wash Stream

4.8±0.1 g Mo Glc
20.3±0.5 g Mo Xyl
0.3± 0.1 g Olig Glc
0.7± 0.4 g Olig Xyl

40.7% of
Input Sugar