Cycle 1: 10% v/v inoculum removed and added to fresh 17.5% w/v fermentation

Cycle 2: No additional ethanol detected after 48h. Addition of 2 g/L cdw XR122N

Cycle 2 cont: 10% v/v removed and added to fresh 17.5% w/v fermentation for Cycle 4.

Cycle 3 cont: 10% v/v removed and added to fresh 17.5% w/v fermentation for Cycle 4.

Cycle 3: no ethanol detected after 72h and additional 2 g/L cdw of XR122N added

Cycle 4: 10% v/v removed and added to fresh 17.5% w/v fermentation for Cycle 5.

Cycle 5: No additional ethanol after 72h. Added 2 g/L cdw XR122N

Cycle 5 cont: 10% v/v removed and added to fresh 17.5% w/v fermentation for Cycle 6.

Cycle 6 cont: 10% v/v inoculum removed and added to fresh 17.5% w/v solids fermenter for Cycle 7.

Cycle 7: Samples removed and designated AJP40

Cycle 6: No additional ethanol after 72h. Added 2 g/L cdw XR122N

Cycle 7 cont: 10% v/v removed and added to fresh 17.5% w/v fermentation for Cycle 8.