



Production of PHA Bioplastics from Sugar By-Products

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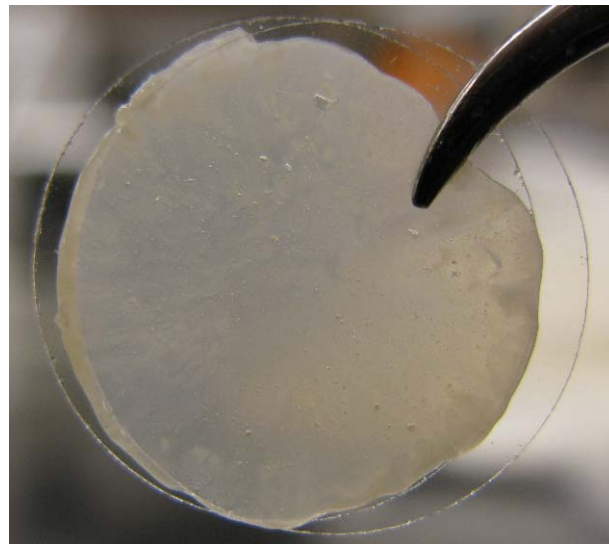
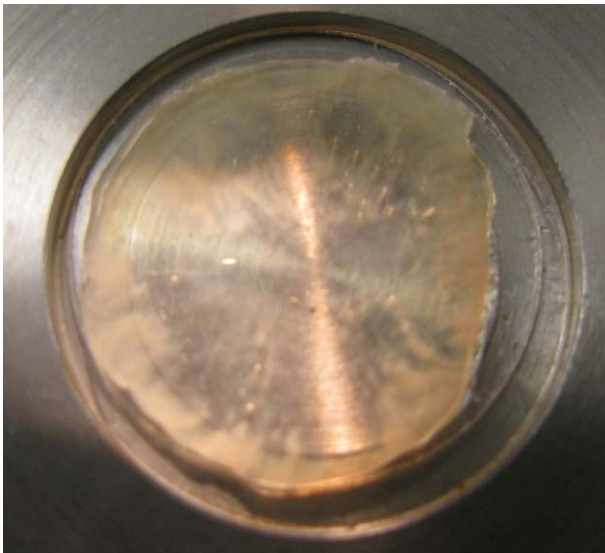
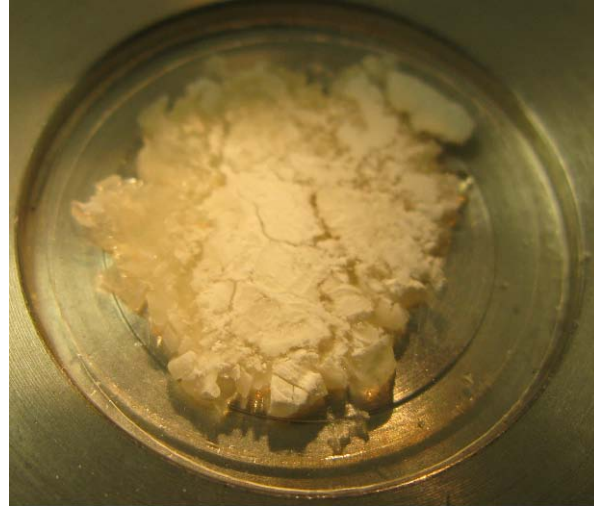
Reports

- Review on sugar beet project (Yu)
- Results of sugar beet molasses (Yu)
- Results of PHA recovery (Porter)
- Progress on sugar cane molasses (Jaremko)

Sugar Beet project Review (3/1/08-2/28/10)

1.
 - (a) Beet pulp pretreatment
 - (b) High PHA productivity (g/L/hr)
 - (c) PHA recovery
 - (d) cell debris reuse
2. Design of a pilot plant
3. Consulting and training of pilot construction and operation
4. PHA production from beet molasses
 - (a) Beet molasses pretreatment
 - (b) High PHA productivity (g/L/hr)

Thermoplastic PHA Powder

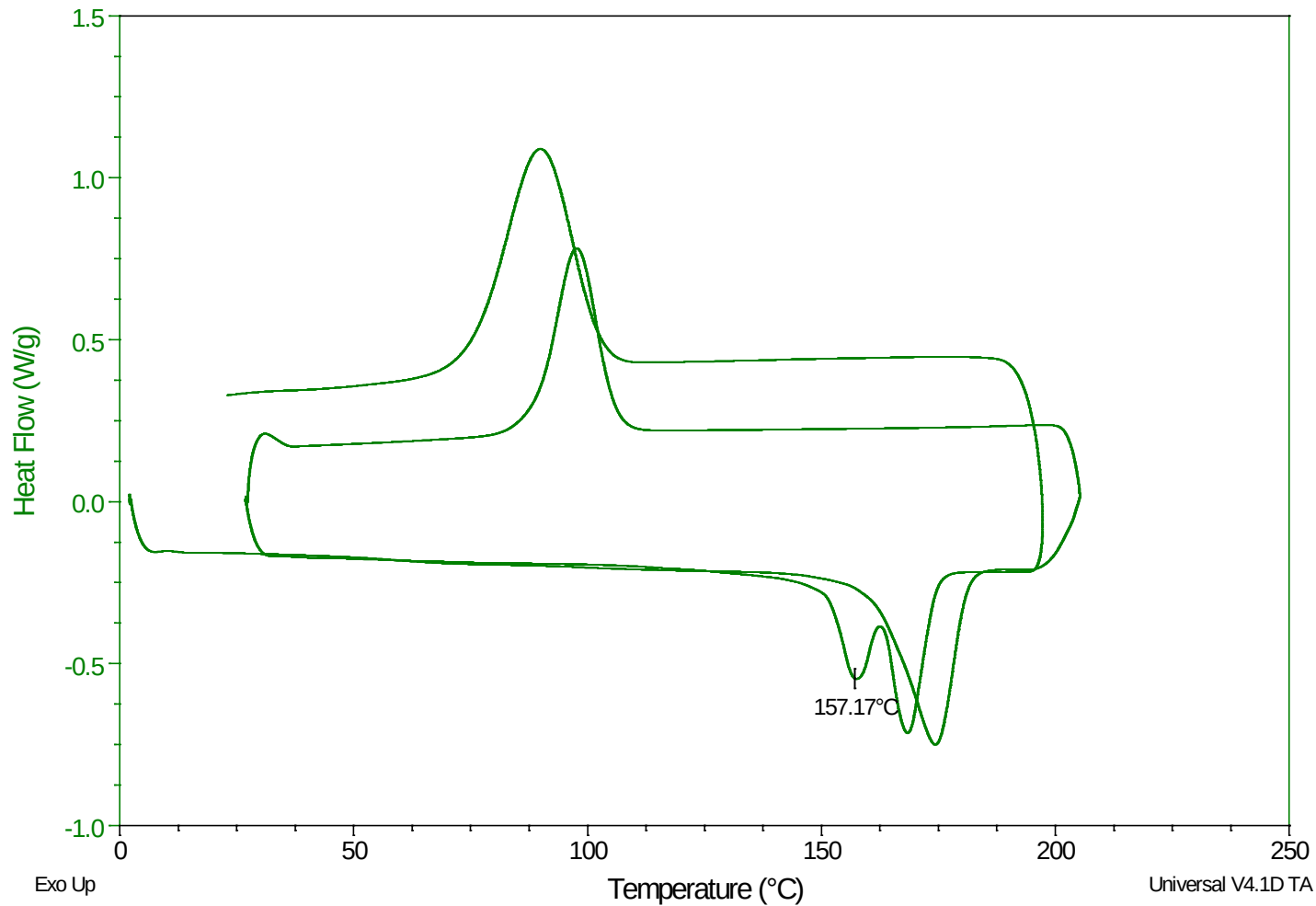


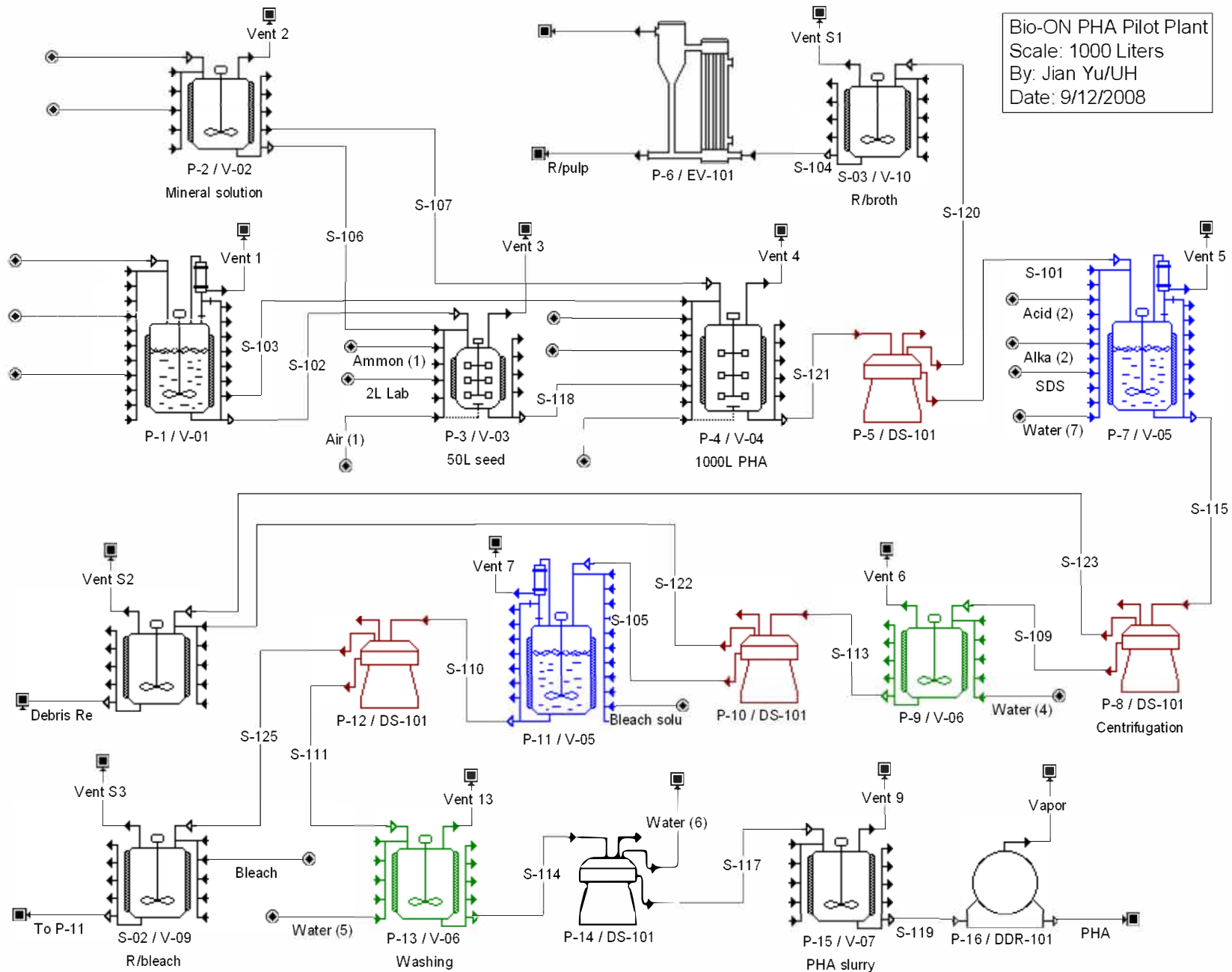
DSC of PHA Powder

Sample: PHB powder-a
Size: 5.4420 mg
Method: Biopolymer-Lu
Comment: measured at MDSC mode

DSC

File: P:\MDSC\PHB powder-a.001
Operator: Luzh
Run Date: 19-Nov-2009 14:20
Instrument: 2920 MDSC V2.6A





Fed-batch PHA Fermentation on Molasses Hydrolysates



High cell density achieved by continuous feeding and consumption of sugar, but how about the non-sugar solids?



*Thank You
Questions?*