

# CDC POLARSTAR

Two-rowed, a cross of OU1003/CDC Kendall, registered in 2008, and was developed by the Crop Development Centre, University of Saskatchewan and Sapporo Breweries.

## Agronomic traits

- Yield similar to CDC Kendall
- Fair resistance to lodging
- Maturity is earlier than AC Metcalfe
- Moderately resistant to Fusarium head blight
- Fair resistance to covered smut, false loose smut and black semi-loose smut
- Very susceptible to true loose smut

## Malting quality traits

- Malting profile similar to CDC Kendall
- Higher enzymes
- Higher Extract
- Produce LoX-less malt
- Higher soluble protein
- Average beta-glucan


## Brewing quality traits

- Good overall brewhouse performance
- Very fast conversion time
- Faster lautering than AC Metcalfe
- Good brewhouse yield and material efficiencies
- The LOX-less trait positively effects beer foam retention and beer flavor stability (less oxidation)

## Overall comments

The LOX-less trait positively effects beer foam retention and beer stability thus increasing shelf life and transportability of the product. CDC Polarstar has much higher diastatic power, which would make it very suitable where higher levels of adjuncts are used in brewing. In addition, the improved husk retention helps during lautering by aiding in the formation of a better filtration bed.

## Comparative malt quality parameters

 CMBTC™ CANADIAN MALTING BARLEY TECHNICAL CENTRE	CDC PolarStar	AC Metcalfe
Fine Extract, %	81.7 - 82.5	~81.5
Color, EBC	4.0 - 4.4	3.0 - 4.5
Total Protein, %	9.6 - 10.9	~12.5
Soluble Protein, %	5.0 - 5.7	4.7 - 5.3
Kolbach Index	44 ~ 52	42 - 48
Diastatic Power, °L	120 - 160	110 - 150
Wort Beta – Glucan, ppm	75 - 120	70 - 120
FAN, ppm (Mean ± Std.)	212 ± 37.0	218 ± 27.9

## cmbtc.com

### For more information

**Peter Watts** **Managing Director**  
 Telephone 204-983-1981  
 Fax 204-984-5843  
 E-mail [pwatts@cmbtc.com](mailto:pwatts@cmbtc.com)

**Dr. Yueshu Li** **Director of Malting & Brewing Operations**  
 Telephone 204-984-0561  
 Fax 204-984-5843  
 E-mail [yli@cmbtc.com](mailto:yli@cmbtc.com)

