

AAC SYNERGY

Two-rowed, a cross of TR02267/Newdale, registered in 2012, and was developed by Dr. Bill Legge, Brandon Research Centre, Agriculture and Agri-Food Canada (AAFC).

Agronomic traits

- 13% higher yield than AC Metcalfe, 7% better than CDC Copeland
- Good resistance to lodging
- Heavier, plumper kernels
- Maturation similar to AC Metcalfe
- Moderately resistant to net blotch and spot blotch

Malting quality traits

- Higher extract than AC Metcalfe
- Lower barley protein
- Average soluble protein
- Color similar to AC Metcalfe
- Enzyme levels lower than AC Metcalfe, higher than CDC Copeland
- Beta-glucan lower than AC Metcalfe and CDC Copeland


Brewing quality traits

- Good overall brew house performance
- Conversion time comparable to AC Metcalfe and CDC Copeland
- Lautering performance similar to AC Metcalfe and CDC Copeland
- Good yield and material efficiencies
- High fermentability

Overall comments

AAC Synergy represents a variety with significantly improved yield, and maturity similar to AC Metcalfe. It performs well in the malting and brewing processes; its malt exhibits very high extract yield with enzymes lower than AC Metcalfe but higher than CDC Copeland; the malt showed fast conversion and good lautering, and its wort showed good color and excellent fermentability.

Comparative malt quality parameters

|  CMBTC™ CANADIAN MALTING BARLEY TECHNICAL CENTRE | AAC Synergy | AC Metcalfe | CDC Copeland |
|--|-------------|-------------|--------------|
| Fine Extract, % | ~82.1 | ~81.5 | ~81.0 |
| Color, EBC | 4.0 - 4.4 | 3.0 - 4.5 | 2.0 - 3.5 |
| Total Protein, % | ~10.5 | ~12.5 | ~12.5 |
| Soluble Protein, % | 4.4 - 5.3 | 4.7 - 5.3 | 4.5 - 5.0 |
| Kolbach Index | 41 - 48 | 42 - 48 | 42 - 44 |
| Diastatic Power, °L | 100 - 135 | 110 - 150 | 100 - 130 |
| Wort Beta - Glucan, ppm | 65 - 110 | 70 - 120 | 70 - 110 |
| FAN, ppm (Mean ± Std.) | 194 ± 13.2 | 218 ± 27.9 | 194 ± 31.2 |

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For more information

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