

79 EBC

46 Blackened - 7.9%

Black IPA

Author: The Thirsty Otter

Type: All Grain

IBU : 61 (Tinseth) Colour : 79 EBC Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.051 : 1.071 Post-Boil Gravity Original Gravity : 1.073 : 1.013 Final Gravity

Fermentables (1.75 kg)

1.5 kg - Maris Otter Pale Ale Malt 5.9 EBC (8... ^ Lot # 67-200827-161058-155815-1/1 ^ The Malt Miller (UK) MAL-00-036 140 g - Munich Malt I 15 EBC (8%) ^ The Malt Miller (UK) MAL-00-017 55 g - Black Malt 1340 EBC (3.1%) ^ The Malt Miller (UK) MAL-55 g - Carafa Special Type 3 1400 EBC (3.1%)

^ The Malt Miller (UK) MAL-01-009 30 g - Bottling - Sugar, Table (Sucrose) 2 EBC

^ Albert Heijn (NL)

Hops (77.4 g)

30 min - 4.7 g - Centennial - 9% (15 IBU)

^ Worcester Hop Shop (UK)

30 min - 4.7 g - Citra - 13.8% (23 IBU)

^ Worcester Hop Shop (UK)

Hop Stand

30 min hopstand @ 77 °C

30 min 77 °C - 17 g - Centennial - 9% (9 IBU) 30 min 77 °C - 17 g - Citra - 13.5% (14 IBU)

Dry Hops

Day 9 - 17 g - Centennial - 9% Day 9 - 17 g - Citra - 13.5%

Miscellaneous

Mash - 0.38 ml - Calcium Chloride (CaCl2) 33...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.51 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 0.56 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Mash - 1.3 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Sparge - 0.86 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

0.5 pkg - Fermentis Safale American US-05

^ Lot # 52766 1049 269

^ The Malt Miller (UK) YEA-02-025

01 Brouwpunt 5L (75min) (rev 4)

Batch Size : 5.6 L Boil Size : 8.21 L Post-Boil Vol : 5.96 L

Mash Water : 5.25 L Sparge Water : 4.76 L

Boil Time : 75 min

: 10.01 L Total Water

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

High fermentability

71 °C - Strike Temp 65 °C - 90 min - Temperature

Fermentation Profile

18 °C (2 day ramp) - 2 days - Primary

21 °C - 12 days - Primary

Water Profile

NL Hoofddorp Rein Tap Water (2020-Q3 WQR) (St...

Ca 58 Mg 15 Na 68 Cl 100 SO 100

SO/Cl ratio: 1 Mash pH: 5.41 Sparge pH: 6

Measurements

Mash pH:

Boil Volume:

Pre-Boil Gravity:

Post-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume: