

23 EBC

Similar to Black Sheep - 4.9%

Strong Bitter
Author: GHW@homebrewinguk.com

Type: All Grain

IBU : 31 (Tinseth)
BU/GU : 0.62
Colour : 23 EBC
Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.037
Original Gravity : 1.048
Total Gravity : 1.050
Final Gravity : 1.013

Fermentables (1.26 kg)

1.024 kg - Pale Malt 2-Row 5.9 EBC (81.5%)

106 g - Wheat Malt 3.9 EBC (8.4%)
70 g - Biscuit Malt 45.5 EBC (5.6%)
35 g - Special B Malt 355 EBC (2.8%)
21 g - Medium Crystal 240 265 EBC (1.7%)
17 g - Bottling - Sugar, Table (Sucrose) 2 EBC

^ Albert Heijn (NL)

Hops (18.2 g)

60 min - 4.2 g - Target (T90) - 7.5% (16 IBU)

^ The Malt Miller (UK) HOP-04-003

10 min - 3.5 g - Challenger (T90) - 6.1% (4 IBU)

^ The Malt Miller (UK) HOP-04-000

10 min - 3.5 g - East Kent Goldings (T90) - 6...

^ The Malt Miller (UK) HOP-04-001

10 min - 3.5 g - First Gold (T90) - 7.5% (6 IBU)

^ The Malt Miller (UK) HOP-04-006

Hop Stand

10 min hopstand @ 80 °C

10 min - 3.5 g - Challenger (T90) - 6.1% (1 IBU)

Miscellaneous

Mash - 0.64 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 1.18 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.64 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.2 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 2.36 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Mash - 0.5 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

0.4 pkg - Mangrove Jack's Empire Ale Yeast M15

^ Brouwstore (NL)

01 Brouwpunt 5L (60min) (rev 4)

Batch Size : 5.6 L Boil Size : 7.76 L Post-Boil Vol : 5.96 L

Mash Water : 3.77 L
Sparge Water : 5.32 L
Boil Time : 60 min

Total Water : 9.09 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

01 One Step Mash (60 min) 72.1 °C - Strike Temp

66 °C - 60 min - Temperature

Fermentation Profile

01 Ale + DR + Conditioning

18 $^{\circ}\text{C}$ - 10 days - Primary

21 °C - 4 days - Diacetyl rest 18 °C - 14 days - Carbonation

18 °C - 28 days - Conditioning

Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl...

Ca 81 Mg 15 Na 50 Cl 75 SO 200

SO/Cl ratio: 2.7 Mash pH: 5.3

Sparge pH: 6

Measurements

Mash pH:

Boil Volume:

Pre-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume:

Similar to Black Sheep



Recipe Notes

Target: ABV = 5.1 %, IBU ~ 40.