

39 EBC

Blackheart Schwarzbier - 5%

01 Brouwpunt 5L (90min) (rev 4) Schwarzbier Author: Pig Den Brewing

Boil Size

: 29 (Tinseth)

Post-Boil Vol : 5.96 L Type: All Grain

BU/GU : 0.6 Colour : 39 EBC Carbonation : 2.3 CO2-vol

Pre-Boil Gravity : 1.034 : 1.049 Original Gravity Final Gravity : 1.011

Fermentables (1.21 kg)

802 g - Pilsner (Weyermann) 6.5 EBC (66.5%) 345 g - Munich I (Weyermann) 14 EBC (28.6%) 59 g - Carafa Special II (Weyermann) 820 EBC...

Hops (27 g)

IBU

60 min - 12.6 g - Hallertau - 2.9% (19 IBU) 15 min - 14.4 g - Hallertau - 2.9% (11 IBU)

Miscellaneous

Mash - 0.7 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 2.47 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.7 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 0.22 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 0.22 g - Gypsum (CaSO4)

^ The Malt Miller (UK) CHE-03-004

Mash - 0.8 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

15 min - Boil - 0.267 tsp - Polyclar Brewbrite

10 min - Boil - 0.267 tsp - Yeast Nutrients

Yeast

0.8 pkg - Mangrove Jack's Bavarian Lager M76

Batch Size : 5.6 L : 8.66 L

Mash Water : 3.62 L Sparge Water : 6.32 L Boil Time : 90 min

Total Water : 9.94 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

Temperature Mash, 1 Step, Full Body

71.6 °C - Strike Temp

65.5 °C - 60 min - Saccharification

75.6 °C - 10 min - Mash Out

Fermentation Profile

Imported

12.2 °C - 10 days - Primary 12.2 °C - 10 days - Secondary

15.6 °C - 7 days - Conditioning

Water Profile

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

Ca 40 Mg 4 Na 50 Cl 100 SO 25

SO/Cl ratio: 0.3 Mash pH: 5.38 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:

Recipe Notes

Add carafa II with 10 minutes left in mash bohemian/german lager yeast. Pitch 8 grams of yeast.