

9 EBC

Fast Minstrel - Cluster Session Brew - 3.8%

Blonde Ale

Author: Geoffrey Shread

Type: All Grain

IBU : 28 (Tinseth)

BU/GU : 0.77 Colour : 9 EBC

Carbonation : 2.5 CO2-vol

Pre-Boil Gravity : 1.031 Original Gravity : 1.036 Final Gravity : 1.007

Fermentables (895 g)

835 g - BEST Pale ale 3.2 EBC (93.3%) 56 g - Flaked Oats 2.7 EBC (6.3%) 4 g - Black Malt 985 EBC (0.5%)

Hops (18 g)

30 min - 4.7 g - Cluster - 6% (11 IBU) 12 min - 13.3 g - Minstrel - 5.7% (17 IBU)

Miscellaneous

Mash - 0.25 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 4.533 ml - CRS/AMS (6.3% HCl, 8.6% H2SO4) Mash - 0.67 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 1.067 g - Calcium Chloride (dihydrate)

Mash - 0.67 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.03 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 0.667 g - Gypsum

Mash - 1.32 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Mash - 0.4 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

26.7 ml - Bootleg Biology OSLO OSLO

01 Brouwpunt 5L (30min) (rev 4)

Batch Size : 5.6 L
Boil Size : 6.86 L
Post-Boil Vol : 5.96 L

Mash Water : 2.52 L Sparge Water : 5.27 L Boil Time : 30 min

Total Water : 7.79 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile Mash Steps

73.3 °C - Strike Temp 67 °C - 60 min - Strike

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 55 Mg 15 Na 46 Cl 75 SO 150

SO/Cl ratio: 2 Mash pH: 5.39 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: