

14 EBC

ESB Bullion - 5%

Strong Bitter Author: Pavel Palouš

Type: All Grain

IBU : 42 (Tinseth)
BU/GU : 0.73
Colour : 14 EBC
Carbonation : 1.9 CO2-vol

Pre-Boil Gravity : 1.039 Original Gravity : 1.057 Final Gravity : 1.019

Fermentables (1.47 kg)

1.16 kg - Pale Ale Finest Maris Otter 5 EBC (... 156 g - Imperial Malt 45 EBC (10.6%)

156 g - Wheat Malt 4 EBC (10.6%)

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Hops (17.9 g)

First Wort - 1.1 g - Bullion - 7.5% (5 IBU) 90 min - 3.3 g - Bullion - 7.5% (13 IBU) 45 min - 4.5 g - Bullion - 7.5% (16 IBU) 10 min - 3.4 g - Bullion - 7.5% (6 IBU)

Hop Stand

20 min hopstand @ 80 °C

20 min - 5.6 g - Bullion - 7.5% (3 IBU)

Miscellaneous

Mash - 0.52 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 2.4 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004 Mash - 1 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Sparge - 1.04 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

0.6 pkg - White Labs London Ale WLP013

01 Brouwpunt 5L (90min) (rev 4)

Batch Size : 5.6 L Boil Size : 8.66 L Post-Boil Vol : 5.96 L

Mash Water : 4.42 L Sparge Water : 5.77 L Boil Time : 90 min Total Water : 10.19 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile
High fermentability
74.4 °C - Strike Temp

68 °C - 60 min - Temperature 72 °C - 20 min - Temperature 78 °C - 5 min - Temperature

Fermentation Profile

Ale

18 °C - 0.5 days - Primary 22 °C - 4 days - Primary

Water Profile

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

Ca 95 Mg 15 Na 68 Cl 92 SO 200

SO/Cl ratio: 2.2 Mash pH: 5.4 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: