

27 EBC

Brouwerij De Ranke - XX Bitter (clone) v2 - 6%

Belgian IPA

Author: The Thirsty Otter

Type: All Grain

IBU : 64 (Tinseth)

BU/GU : 1 : 27 EBC Colour Carbonation : 2.5 CO2-vol

: 1.043 Pre-Boil Gravity Original Gravity : 1.064 Final Gravity : 1.018

Fermentables (1.56 kg)

1.4 kg - Pils 3.5 EBC (89.6%) ^ Brouwmaatje (NL) 051.002.4

130 g - Candy Syrup Dark 220 EBC (8.3%) 32 g - Sugar, Table (Sucrose) 2 EBC (2.1%)

^ Albert Heijn (NL)

Hops (51 g)

60 min - 11 g - Brewer's Gold (T90) - 5.2% (2...

^ The Malt Miller (UK) HOP-06-011

30 min - 15 g - Hallertauer Mittelfrueh (T90)...

^ The Malt Miller (UK) HOP-06-008

10 min - 15 g - Hallertauer Mittelfrueh (T90)...

^ The Malt Miller (UK) HOP-06-008

Hop Stand

10 min hopstand @ 80 °C

10 min - 10 g - Hallertauer Mittelfrueh (T90)...

Miscellaneous

Mash - 0.65 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 1.19 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.65 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.22 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 2.39 g - Gypsum (CaSO4)

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

Mash - 0.9 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 3.3 l - NL Spa Reine Flat Mineral Water

^ AH (NL)

Sparge - 5.64 l - NL Spa Reine Flat Mineral W...

^ AH (NL)

60 min - Boil - 0.15 g - Lipohop K

^ Lot # LPK110

^ The Malt Miller (UK) CH-03-013

10 min - Boil - 1 g - Irish Moss

^ Lot # 4348

^ Brouwstore (NL) 125.249.1

10 min - Boil - 0.05 g - Lallemand Servomyces

^ Lot # 154001112904ABV

^ Brouwstore (NL) 050.620.4

10 min - Boil - 1 items - Wort Chiller

^ Brouwstore (NL) 057.020.20

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

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

Mash Water : 4.2 L Sparge Water : 5.02 L Boil Time : 60 min Total Water : 9.22 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

High fermentability plus mash out

71 °C - Strike Temp

65 °C - 60 min - Temperature 75 °C - 10 min - Mash Out

Fermentation Profile

Ale + DR + Conditioning

16 °C - 2 days - Primary

19 °C (3 day ramp) - 12 days - Diacetyl rest

15 °C - 28 days - Conditioning

Water Profile

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: 5.38 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:

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Recipe Notes

Target: ABV = 6.0 %, IBU = 65.

Original recipe @ brewersfriend.com/homebrew/recipe/view/242694/de-ranke-xx-bitter-clone I tweaked the hop bill for range and target.

Fermentis yeast according to brewery information, most likely T-58 as BE-256 wasn't available at the time the brewery went from Rodenbach yeast to Fermentis dry yeast.

Low fermentation temperatures to avoid estery flavours.

No dry hopping. Conditioning for 4 weeks @ 15 C.