

16 EBC

AnOtter Cascade Pale Ale - 5.8%

American Pale Ale

Author: The Thirsty Otter

Post-Boil Vol Type: All Grain

IBU : 46 (Tinseth) Mash Water

BU/GU : 0.85 Colour : 16 EBC Boil Time Carbonation : 2.5 CO2-vol Total Water

Pre-Boil Gravity : 1.041 : 1.054 Mash Efficiency: 73.3% Original Gravity : 1.010 Final Gravity

Fermentables (1.4 kg)

1.35 kg - Swaen Vienna 12 EBC (96.4%) ^ Brouwmaatje (NL) BM-SWAEN@VIENNA 50 g - Chateau Biscuit 45 EBC (3.6%) ^ Brouwmaatje (NL) BM-BL.051.098.2/1

Hops (25 g)

60 min - 10 g - Cascade (T90) - 7.5% (36 IBU) ^ Brouwmaatje (NL) BM-BL.053.148.3/100 5 min - 10 g - Cascade (T90) - 7.5% (9 IBU) ^ Brouwmaatje (NL) BM-BL.053.148.3/100

Hop Stand

10 min hopstand @ 80 °C 10 min - 5 g - Cascade (T90) - 7.5% (1 IBU) ^ Brouwmaatje (NL) BM-BL.053.148.3/100

Miscellaneous

Mash - 0.27 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 1.98 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.26 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 0.57 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 2.12 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Yeast

0.9 pkg - Fermentis Saflager Lager W-34/70

^ The Malt Miller (UK) YEA-02-032

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

Batch Size : 5.6 L Boil Size : 7.76 L : 5.96 L

: 4.2 L Sparge Water : 5.02 L : 60 min : 9.22 L

Brewhouse Efficiency: 71.8%

Mash Profile

01 One Step Mash (90 min) 73.3 °C - Strike Temp 67 °C - 90 min - Temperature

Fermentation Profile 01 Ale + DR + Conditioning

20 °C - 7 days - Primary

21 °C - 7 days - Diacetyl rest 2 °C - 1 days - Cold crash 18 °C - 14 days - Carbonation 18 °C - 28 days - Conditioning

Water Profile

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

Ca 84 Mg 8 Na 22 Cl 67 SO 156 HCO 38

SO/Cl ratio: 2.3 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

Original recipe by John J. Palmer, beefed up a bit. Malt bill adapted to local available.