

9 EBC

14 SMaSH Apollo - 5.1%

American Pale Ale Author: The Thirsty Otter

Type: All Grain

IBU : 31 (Tinseth)
Colour : 9 EBC
Carbonation : 2.5 CO2-vol

Pre-Boil Gravity : 1.034 Post-Boil Gravity : 1.045 Original Gravity : 1.047

Fermentables (1.1 kg)

1.1 kg - Maris Otter Pale Ale Malt 5.9 EBC (1...
^ Lot # 67-200827-161058-155815-1/1
^ The Malt Miller (UK) MAL-00-036

: 1.008

32 g - Bottling - Sugar, Table (Sucrose) 2 EBC ^ Albert Heijn (NL)

Hops (37.1 g)

Final Gravity

15 min - 4 g - Apollo (T90) - 16.7% (18 IBU) ^ The Malt Miller (UK) HOP-05-018

Hop Stand

7 min hopstand @ 80 °C

7 min - 23.8 g - Apollo (T90) - 16.7% (13 IBU)

Dry Hops

Day 7 - 9.3 g - Apollo (T90) - 16.7%

Miscellaneous

Mash - 2 items - pH paper strips 5.2 - 6.8

^ Lot # 20200422/1

^ Brouwstore (NL) 013.075.7

Mash - 0.45 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 2.3 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Mash - 0.6 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 2 items - pH paper strips 5.2 - 6.8

^ Lot # 20200422/1

^ Brouwstore (NL) 013.075.7

Sparge - 1.02 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

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

Bottling - 15 items - 33 cl Steinie bottle (s...

^ Brouwstore (NL) 017.500.0

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

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

Mash Water : 3.3 L Sparge Water : 5.64 L

Boil Time : 60 min Total Water : 8.94 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

01 One Step Mash (60 min) 68.7 °C - Strike Temp

63 °C - 60 min - Temperature

Fermentation Profile

Ale

20 °C - 14 days - Primary 20 °C - 45 days - Conditioning

Water Profile

NL Hoofddorp Rein Tap Water (2020-Q3 WQR) (St... Ca 100 Mg 15 Na 68 Cl 92 SO 212

SO/Cl ratio: 2.3

Mash pH: 5.39 Sparge pH: 6

Measurements

Mash pH:

Boil Volume:

Pre-Boil Gravity:

Post-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume:

Yeast

14 SMaSH Apollo



Recipe Notes

 ${\tt Malt is ordered with standard crush @ The Malt Miller (https://www.themaltmiller.co.uk/).}$