

05 SMASH Centennial - 5.4%

American Pale Ale
Author: The Thirsty Otter

Type: All Grain

IBU : 37 (Tinseth)
BU/GU : 0.73
Colour : 9 EBC
Carbonation : 2.5 CO₂-vol

Pre-Boil Gravity : 1.038
Original Gravity : 1.049
Total Gravity : 1.051
Final Gravity : 1.010

Fermentables (1.2 kg)

1.2 kg - Maris Otter Pale Ale Malt 5.9 EBC (1...
^ Lot # 67-200827-161058-155815-1/1
^ The Malt Miller (UK) MAL-00-036
32 g - Bottling - Sugar, Table (Sucrose) 2 EBC
^ Albert Heijn (NL)

Hops (20 g)

20 min - 5 g - Centennial - 9% (15 IBU)
^ Worcester Hop Shop (UK)
10 min - 5 g - Centennial - 9% (11 IBU)
^ Worcester Hop Shop (UK)
5 min - 5 g - Centennial - 9% (8 IBU)
^ Worcester Hop Shop (UK)

Hop Stand

30 min hopstand @ 80 °C
30 min - 5 g - Centennial - 9% (4 IBU)

Miscellaneous

Mash - 0.82 g - Epsom Salt (MgSO₄)
^ Lot # /2119000091
^ Brouwstore (NL) 055.027.7
Mash - 1.4 ml - Lactic Acid 80% 80%
^ Lot # 20200213
^ Brouwstore (NL) 003.002.3
Mash - 3 items - pH paper strips 5.2 - 6.8
^ Lot # 20200422/1
^ Brouwstore (NL) 013.075.7
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

Yeast

0.5 pkg - Lallemand (LalBrew) New England
^ Lot # 41305910897711V
^ The Malt Miller (UK) YEA-02-044

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

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

Mash Water : 3.6 L
Sparge Water : 5.43 L
Boil Time : 60 min
Total Water : 9.03 L

9 EBC

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

Water Profile

NL Hoofddorp Rein Tap Water (2020-Q1 WQ) (Pa...
Ca 41 Mg 18 Na 67 Cl 71 SO 79

SO/Cl ratio: 1.1
Mash pH 5.4

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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[www.brewfather.app](https://web.brewfather.app)

Recipe Notes

Malt is ordered with standard crush @ The Malt Miller (<https://www.themaltniller.co.uk/>).