

9 EBC

61 Three Hops Blonde - 4.7%

Blonde Ale

Brewer: The Thirsty Otter

Type: All Grain

IBU : 23 (Tinseth)

BU/GU : 0.49 : 9 EBC Colour

Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.034 Original Gravity : 1.047 Final Gravity : 1.011

Fermentables (1.13 kg)

1.1 kg - Maris Otter Pale Ale Malt 5.9 EBC (9...

^ Lot # 694-201130-111430-176081-1/1 ^ The Malt Miller (UK) MAL-00-036

30 g - Sugar, Table (Sucrose) 2 EBC (2.7%)

^ Albert Heijn (NL)

Hops (38.3 g)

30 min - 3 g - Magnum - 10.7% (13 IBU)

^ Lot # 694-201130-111430-176081-HOP06-009-RG...

^ The Malt Miller (UK) HOP-06-009

10 min - 3 g - Magnum - 10.7% (7 IBU)

^ Lot # 694-201130-111430-176081-HOP06-009-RG...

^ The Malt Miller (UK) HOP-06-009

Hop Stand

15 min hopstand @ 80 °C

15 min - 4 g - Magnum - 10.7% (3 IBU)

Dry Hops

7 days - 14.3 g - Centennial - 9%

7 days - 14 g - Citra - 13.8%

Miscellaneous

Mash - 5.7 l - NL Spa Reine Flat Mineral Water

^ Lot # 20210411

^ AH (NL)

Mash - 3.3 l - NL Spa Reine Flat Mineral Water

^ Lot # 20210411

^ AH (NL)

Mash - 0.28 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 0.78 ml - Calcium Chloride (CaCl2) 33...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.75 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 1.18 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7

Mash - 1.52 g - Gypsum (CaSO4)

^ Brouwmaatje (NL)

Mash - 0.5 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

60 min - Boil - 0.27 g - Lipohop K

^ Lot # LPK110

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

^ Lot # 4348

10 min - Boil - 1 g - Irish Moss

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

: 5.6 L Batch Size 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

04 High fermentability (60 min)

68.7 °C - Strike Temp

63 °C - 60 min - Temperature

Fermentation Profile

01 Ale + DR + Conditioning

17 °C - 10 days - Primary

19 °C - 4 days - Diacetyl rest

17 °C - 14 days - Carbonation

15 °C - 28 days - Conditioning

Water Profile

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

Ca 55 Mg 15 Na 45 Cl 75 SO 150

SO/Cl ratio: 2 Mash pH: 5.38 Sparge pH: 6

Measurements

Mash pH: 5.5

Boil Volume: 8.5

Pre-Boil Gravity: 1.035

Post-Boil Kettle Volume: 6.8

Original Gravity: 1.038

Fermenter Top-Up:

Fermenter Volume: 5.6

Final Gravity: 1.038

Bottling Volume:

Batch #10 - 2 May 2021



Recipe Notes

Malt is ordered with standard crush @ The Malt Miller (https://www.themaltmiller.co.uk/). Pitch slurry from Batch #8 @ 20 C.

Batch Notes

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02-05-2021 08:47 Brewday
3.3 L Spa Reine Natural Mineral water
0.28 grams Baking Soda (NaCO3)
0.78 mL Calciumchloride
0.75 grams Canning salt
1.18 grams Epsom salt
1.52 grams Gypsum
0.5 mL Lactic acid
02-05-2021 09:22 Mash in @ 68.7 C
02-05-2021 09:35 Mash pH = 5.5 @ 64.0 C.
02-05-2021 10:22 End of mash
02-05-2021 10:32 Sparged with 1.2 L @ 68.0 C.
02-05-2021 10:45 Sparged with 1.5 L @ 67.9 C.
02-05-2021 11:00 Sparged with 1.5 L @ 67.6 C.
02-05-2021 11:14 Sparged with 1.5 L @ 68.9 C.
02-05-2021 11:35 SG = 1.026 @ 46.6 C --> SG = 1.035 @ 20 C.
02-05-2021 11:38 Level = 17.0 cm --> 8.5 L wort collected.
02-05-2021 11:45 0.27 grams Lipohop K
02-05-2021 12:13 Start of boil.
02-05-2021 12:43 added 3 grams Magnum hops.
02-05-2021 13:03 added 3 grams Magnum hops.
02-05-2021 13:03 Added 1 grams Irish Moss.
02-05-2021 13:03 Added 0.05 grams Servomyces yeast nutrient.
02-05-2021 13:03 Added wort chiller.
02-05-2021 13:13 Flame out.
02-05-2021 13:38 Start of hopstand @ 80.0 C, added 4 grams Magnum hops.
02-05-2021 13:48 End of hopstand @ 73.0 C.
02-05-2021 14:45 SG = 1.038 @ 23 C --> SG = 1.038 @ 20 C.
02-05-2021 14:50 Collected 5.6 L wort in the fermenter bucket.
Day 0 in fermentation
02-05-2021 16:54 Pitched 5 grams S-04 yeast @ 17.4 C.
02-05-2021 22:46    16.0 C, dp = 0 mm H2O, no bubbles.
Day 1 in fermentation
03-05-2021 09:04 16.9 C, dp = 50 mm H2O, no bubbles.
03-05-2021 15:55 17.0 C, dp = 50 mm H2O, few bubbles.
03-05-2021 18:04 16.7 C, dp = 50 mm H2O, many bubbles.
03-05-2021 20:38 16.2 C, dp = 50 mm H2O, few bubbles. 03-05-2021 23:48 16.1 C, dp = 50 mm H2O, many bubbles.
Day 2 in fermentation
04-05-2021 07:51 16.4 C, dp = 50 mm H2O, many bubbles.
04-05-2021 13:14 17.0 C, dp = 50 mm H2O, many bubbles.
04-05-2021 18:58 16.5 C, dp = 50 mm H2O, many bubbles. 04-05-2021 23:10 16.3 C, dp = 50 mm H2O, many bubbles.
Day 3 in fermentation
05-05-2021 08:29 17.0 C, dp = 50 mm H2O, many bubbles.
05-05-2021 13:27 17.0 C, dp = 50 mm H2O, many bubbles.
05-05-2021 19:16 17.0 C, dp = 50 mm H20, many bubbles.
05-05-2021 23:23 16.0 C, dp = 50 mm H2O, few bubbles.
Day 4 in fermentation
06-05-2021 10:39 16.8 C, dp = 50 mm H2O, few bubbles.
06-05-2021 15:11 17.0 C, dp = 50 mm H2O, few bubbles.
06-05-2021 23:14 16.4 C, dp = 50 mm H2O, few bubbles.
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Day 5 in fermentation

Batch #10 - 2 May 2021



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Batch Notes
07-05-2021 08:14 16.4 C, dp = 50 mm H2O, few bubbles.
07-05-2021 19:37 16.4 C, dp = 50 mm H2O, few bubbles. 07-05-2021 23:22 17.0 C, dp = 50 mm H2O, few bubbles.
Day 6 in fermentation
08-05-2021 09:32 16.7 C, dp = 50 mm H2O, few bubbles.
08-05-2021 14:53 16.5 C, dp = 50 mm H2O, no bubbles.
08-05-2021 19:47 16.6 C, dp = 50 mm H2O, few bubbles. 08-05-2021 23:33 17.0 C, dp = 50 mm H2O, few bubbles.
Day 7 in fermentation
09-05-2021 10:29 16.1 C, dp = 40 mm H2O, no bubbles.
09-05-2021 14:26    17.0 C, dp = 45 mm H2O, no bubbles.
09-05-2021 14:27 Added 14 grams Citra and 14.27 grams Centennial hops to the fermenter.
09-05-2021 16:50 16.8 C, dp = 45 mm H2O, no bubbles.
09-05-2021 23:23 16.8 C, dp = 35 mm H2O, no bubbles.
Day 8 in fermentation
10-05-2021 10:31 16.4 C, dp = 30 mm H2O, no bubbles.
Day 9 in fermentation
11-05-2021 09:20 16.1 C, dp = 20 mm H2O, no bubbles.
11-05-2021 13:17 16.9 C, dp = 30 mm H2O, no bubbles.
11-05-2021 20:35 16.5 C, dp = 30 mm H2O, no bubbles.
11-05-2021 23:10 16.3 C, dp = 30 mm H20, no bubbles.
Day 10 in fermentation
12-05-2021 09:14 16.1 C, dp = 15 mm H2O, no bubbles.
12-05-2021 09:51 SV = 17.3 C.
12-05-2021 14:03 16.9 C, dp = 20 mm H2O, no bubbles.
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Extra Measured Values	
Strike Temperature	68.7
Strike Water pH	5.5
Sparge Water Temperature	68.1
Sparge Water pH	6
Pitch Temperature	17.4

Batch Log		
2 May 2021	Brew Date	
2 May 2021	Fermentation Start	
2 May 2021 08:47	Status: Brewing	
2 May 2021 16:54	Status: Fermenting, SV = 17.0 C.	
9 May 2021 14:27	Added 14 grams Citra and 14.27 grams Centennial hops to the fermenter	
12 May 2021 09:51	SV = 17.3 C.	
12 May 2021 14:17	SV = 17.7 C	
16 May 2021	Bottling Date	