

^ The Malt Miller (UK) CH-03-013 10 min - Boil - 0.214 g - Irish Moss

10 min - Boil - 0.011 g - Lallemand Servomyces

^ Brouwstore (NL) 125.249.1

^ Lot # 154001112904ABV ^ Brouwstore (NL) 050.620.4

^ Lot # 4348

08 SMaSH Magnum - 5% **Blonde Ale** 02 PET Bottle 1.5L (60min) (rev 4) Brewer: The Thirsty Otter Batch Size : 1.2 L Boil Size : 3.68 L Post-Boil Vol : 1.87 L Type: All Grain IBU : 23 (Tinseth) Mash Water : 0.98 L BU/GU : 0.51 Sparge Water : 3.01 L 8 EBC : 8 EBC Boil Time Colour : 60 min Carbonation : 2.4 CO2-vol Total Water : 3.99 L Pre-Boil Gravity Brewhouse Efficiency: 52.7% : 1.023 Original Gravity : 1.046 Mash Efficiency: 79.1% Final Gravity : 1.008 Mash Profile Fermentables (328 g) 04 High fermentability (60 min) 326 g - Maris Otter Pale Ale Malt 5.9 EBC (99... 68.7 °C - Strike Temp ^ Lot # 694-201130-111430-176081-1/1 63 °C - 60 min - Temperature ^ The Malt Miller (UK) MAL-00-036 2 g - Sugar, Table (Sucrose) 2 EBC (0.6%) Fermentation Profile ^ Albert Heijn (NL) 01 Ale + DR + Conditioning 17 °C - 10 days - Primary Hops (2.7 g) 21 °C - 4 days - Diacetyl rest 17 °C - 14 days - Carbonation 30 min - 0.9 g - Magnum - 10.7% (14 IBU) 15 °C - 28 days - Conditioning ^ Lot # 694-201130-111430-176081-HOP06-009-RG... ^ The Malt Miller (UK) HOP-06-009 Water Profile 10 min - 0.9 g - Magnum - 10.7% (8 IBU) ^ Lot # 694-201130-111430-176081-HOP06-009-RG... NL Spa Reine Flat Mineral Water (www.ah.nl) (... ^ The Malt Miller (UK) HOP-06-009 Ca 117 Mg 31 Na 98 Cl 162 SO 332 Hop Stand SO/Cl ratio: 2.1 15 min hopstand @ 80 °C Mash pH: 4.63 15 min - 0.9 g - Magnum - 10.7% (2 IBU) Sparge pH: 6 Miscellaneous Measurements Mash - 0.062 g - Baking Soda (NaHCO3) ^ Lot # 41190621/3 Mash pH: 5.5 ^ Brouwstore (NL) 003.106.2 Mash - 0.167 ml - Calcium Chloride (CaCl2) 33... Boil Volume: 8.5 ^ Lot # 115038 ^ Brouwstore (NL) 055.035.0 Pre-Boil Gravity: 1.035 Mash - 0.163 g - Canning Salt (NaCl) ^ Albert Heijn (NL) Post-Boil Kettle Volume: 6.7 Mash - 0.253 g - Epsom Salt (MgSO4) ^ Lot # /2119000091 Original Gravity: 1.038 ^ Brouwstore (NL) 055.027.7 Mash - 0.326 g - Gypsum (CaSO4) Fermenter Top-Up: ^ Brouwmaatje (NL) Mash - 0.107 ml - Lactic Acid 80% 80% Fermenter Volume: 1.2 ^ Lot # 20200213 ^ Brouwstore (NL) 003.002.3 Final Gravity: Mash - 0.707 l - NL Spa Reine Flat Mineral Water ^ Lot # 20210411 Bottling Volume: ^ AH (NL) Sparge - 1.221 l - NL Spa Reine Flat Mineral... ^ Lot # 20210411 ^ AH (NL) 60 min - Boil - 0.058 g - Lipohop K ^ Lot # LPK110

Batch #11 - 2 May 2021



Recipe Notes

Malt is ordered with standard crush @ The Malt Miller (https://www.themaltmiller.co.uk/). Pitch 4 grams yeast @ 20 C.

Batch Notes

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02-05-2021 08:47 Brewday
3.3 L Spa Reine flat mineral water
0.28 grams Baking Soda (NaCO3)
0,78 mL Calciumchloride (CaCl2)
0.75 grams Canning salt (NaCl)
1.18 grams Epsom salt (MgSO4)
1.52 grams Gypsum (CaSO4)
0.5 mL Lactic acid (CH3CH(OH)COOH)
02-05-2021 09:22 Mash in @ 68.7 C
Lump hunting
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 14:55 collected 1.2 L kettle trub in a 1.5 L PET bottle.
02-05-2021 15:05 pitched US-05 yeast slurry (A2) @ 22.0 C.
Day 1 in fermentation
03-05-2021 09:04 16.9 C.
03-05-2021 11:07 16.4 C.
03-05-2021 15:55 17.0 C.
03-05-2021 18:04 16.7 C.
03-05-2021 20:38 16.2 C.
03-05-2021 23:48 16.1 C.
Day 2 in fermentation
04-05-2021 07:51 16.4 C.
04-05-2021 13:14 17.0 C.
04-05-2021 18:58 16.5 C.
04-05-2021 23:10 16.3 C.
Day 3 in fermentation
05-05-2021 08:29 17.0 C.
05-05-2021 13:27 17.0 C.
05-05-2021 19:16 17.0 C.
05-05-2021 23:23 16.0 C.
Day 4 in fermentation
06-05-2021 10:39 16.8 C.
06-05-2021 15:11 17.0 C.
06-05-2021 23:14 16.4 C.
Day 5 in fermentation
07-05-2021 08:14 16.4 C. 07-05-2021 12:52 16.5 C.
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Batch Notes

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07-05-2021 19:37 16.4 C.
07-05-2021 23:22 17.0 C.
Day 6 in fermentation
08-05-2021 09:32 16.7 C. 08-05-2021 14:53 16.5 C.
08-05-2021 19:47 16.6 C.
08-05-2021 23:33 17.0 C.
Day 7 in fermentation
09-05-2021 10:29 16.1 C. 09-05-2021 14:26 17.0 C.
09-05-2021 16:50 16.8 C.
09-05-2021 23:23 16.8 C.
Day 8 in fermentation
10-05-2021 10:31 16.4 C.
Day 9 in fermentation
11-05-2021 09:20 16.1 C.
11-05-2021 13:17 16.9 C.
11-05-2021 20:35 16.5 C.
11-05-2021 23:10 16.3 C.
Day 10 in fermentation
12-05-2021 09:14 16.1 C.
12-05-2021 09:51 SV = 17.3 C.
12-05-2021 14:03 16.9 C.
12-05-2021 14:17 SV = 17.7 C.
12-05-2021 17:06 SV = 18.0 C.
12-05-2021 18:31 18.0 C.
12-05-2021 18:32 SV = 18.3 C.
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Extra Measured Values	
Strike Temperature	68.7
Strike Water pH	5.4
Sparge Temperature	68.1
Sparge pH	6
Pitch Temperature	22

Batch Log		
2 May 2021	Brew Date	
2 May 2021	Fermentation Start	
2 May 2021 08:47	Status: Brewing	
2 May 2021 15:05	SV= 17.0 C	
2 May 2021 15:05	Status: Fermenting	
12 May 2021 09:51	SV = 17.3 C	
12 May 2021 14:17	SV = 17.7 C	
12 May 2021 17:06	SV = 18.0 C	
12 May 2021 18:31	SV = 18.3 C	

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Batch Log	
15 May 2021	Bottling Date