

9 EBC

03 SMaSH Godiva - 4.7%

British Golden Ale Brewer: The Thirsty Otter

Type: All Grain

IBU : 36 (Tinseth)
Colour : 9 EBC
Carbonation : 2.6 CO2-vol

Pre-Boil Gravity : 1.034
Post-Boil Gravity : 1.045
Original Gravity : 1.047
Final Gravity : 1.011

Fermentables (1.1 kg)

1.1 kg - Maris Otter Pale Ale Malt 5.9 EBC (1... ^ Lot # 45-200704-173451-144871-1/1 ^ The Malt Miller (UK) MAL-00-036

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

Hops (13 g)

60 min - 5 g - Godiva (Whole) - 7.52% (18 IBU)

^ Worcester Hop Shop (UK)

30 min - 4 g - Godiva (Whole) - 7.52% (11 IBU)

^ Worcester Hop Shop (UK)

15 min - 4 g - Godiva (Whole) - 7.52% (7 IBU)

^ Worcester Hop Shop (UK)

Miscellaneous

Mash - 0.5 ml - Calcium Chloride (CaCl2) 33 %

^ Lot # 115038

^ Brouwstore (NL) 055.035.0 Mash - 0.1 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 1.2 ml - Lactic Acid 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Mash - 4 items - pH paper strips 5.2 - 6.8

^ Lot # 20200422/1

^ Brouwstore (NL) 013.075.7

60 min - Boil - 0.35 g - Lipohop K

^ Lot # LPK110

^ The Malt Miller (UK) CH-03-013 10 min - Boil - 1.1 g - Irish Moss

^ Lot # 4348

^ Brouwstore (NL) 125.249.1

10 min - Boil - 0.1 g - Lallemand Servomyces

^ Lot # 154001112904ABV ^ Brouwstore (NL) 050.620.4

10 min - Boil - 1 items - Wort Chiller

^ Brouwstore (NL) 057.020.20

Bottling - 13 items - 33 cl Steinie bottle (s...

^ Brouwstore (NL) 017.500.0

Yeast

0.5 pkg - Lallemand (LalBrew) Nottingham Yeast

^ Lot # 10812600497711V

^ The Malt Miller (UK) YEA-02-023

01 Brouwpunt 5L (60min) (rev 3)

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

Mash Water : 3.3 L Sparge Water : 4 L

Boil Time : 60 min Top-Up Water : 1.64 L Total Water : 8.94 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

BP 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 WQR) (En...

Ca 47 Mg 10 Na 67 Cl 11 SO 48

SO/Cl ratio: 4.4 Mash pH: 5.42

Measurements

Mash pH: 5.5

Boil Volume: 7.1

Pre-Boil Gravity: 1.028

Post-Boil Gravity: 1.041

Post-Boil Kettle Volume: 5.3

Original Gravity: 1.041

Fermenter Top-Up: 0.72

Fermenter Volume: 5.3

Final Gravity: 1.002

Bottling Volume: 4.13



Recipe Notes

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

Batch Notes

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05-09-2020
Boiled 4.7 L of water the night before.
06-09-2020 09:30 siphoned 4 L into mash kettle, heated 4 L mash water.
Added 0.14 g Epsom salt, 0.5 mL Calcium chloride 33% and 1.2 mL Lactic acid 80% .
pH of Mash water = 5.8 before boil .
Mash in @ 69 C.
Mash pH - 5.7 @ 10 min.
Mash pH = 5.5 @ 30 min.
Mash pH = 5.5 @ 50 min.
Pre-Boil volume = 7.1 L.
Pre-Boil Specific Gravity = 1.020 @ 44.0 C --> 1.028 @ 20 C.
Added 0.35 grams Lipohop K.
Post-Boil volume = 5.3 L.
Post-Boil Specific Gravity = 1.040 @ 23.3 C --> 1.041 @ 20 C.
Fermenter volume = 5.3 L.
Fermentation
Day 0 in fermentation
06-09-2020 13:25 pitched 5 grams of yeast.
06-09-2020 13:35 @ 20.7 C.
06-09-2020 14:46 @ 24.0 C.
06-09-2020 16:01 @ 22.2 C, dp = 10 mm H2O.
06-09-2020 17:16 @ 22.0 C, dp = 25 mm H2O, fermentation has started.
06-09-2020 19:06 @ 21.7 C, dp = 50 mm H2O, some bubbles.
06-09-2020 21:21 @ 21.2 C, dp = 50 mm H20, some bubbles. 06-09-2020 23:12 @ 21.5 C, dp = 50 mm H20, many bubbles.
Day 1 in fermentation
07-09-2020 04:37 @ 21.5 C, dp = 50 mm H2O, many bubbles.
07-09-2020 09:19 @ 21.8 C, dp = 50 mm H2O, many bubbles.
07-09-2020 12:44 @ 21.8 C, dp = 50 mm H20, many bubbles.
07-09-2020 15:07 @ 21.4 C, dp = 50 mm H20, many bubbles. 07-09-2020 18:19 @ 22.4 C, dp = 50 mm H20, many bubbles.
07-09-2020 21:48 @ 22.0 C, dp = 50 mm H2O, many bubbles.
07-09-2020 22:47 @ 22.0 C, dp = 50 mm H2O, many bubbles.
Day 2 in fermentation
08-09-2020 06:34 @ 21.9 C, dp = 45 mm H2O, less bubbles.
08-09-2020 10:35 @ 21.9 C, dp = 40 mm H2O, less bubbles.
08-09-2020 13:42 @ 20.9 C, dp = 35 mm H2O, no bubbles.
08-09-2020 17:40 @ 20.8 C, dp = 35 mm H2O, no bubbles.
08-09-2020 23:23 @ 20.9 C, dp = 20 mm H2O, no bubbles.
Day 3 in fermentation
09-09-2020 08:27 @ 20.2 C, dp = 5 mm H20, no bubbles.
09-09-2020 14:35 @ 20.9 C, dp = 10 mm H2O, no bubbles.
09-09-2020 19:49 @ 20.1 C, dp = 5 mm H2O, no bubbles.
09-09-2020 22:27 @ 20.2 C, dp = 3 mm H2O, no bubbles.
Day 4 in fermentation
10-09-2020 08:41 @ 20.4 C, dp = 3 mm H2O, no bubbles.
10-09-2020 11:41 @ 20.2 C, dp = 3 mm H2O, no bubbles.
10-09-2020 13:38 @ 20.2 C, dp = 3 mm H2O, no bubbles.
10-09-2020 17:12 @ 20.0 C, dp = 3 mm H20, no bubbles.
10-09-2020 18:44 @ 20.4 C, dp = 3 mm H2O, no bubbles.
10-09-2020 23:10 @ 20.6 C, dp = 1 mm H2O, no bubbles.
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Batch Notes
11-09-2020 01:07 @ 20.6 C, dp = 1 mm H2O, no bubbles.
11-09-2020 08:27 @ 20.2 C, dp = 1 mm H2O, no bubbles.
11-09-2020 17:04 @ 20.9 C, dp = 5 mm H2O, no bubbles.
11-09-2020 23:32 @ 20.9 C, dp = 2 mm H2O, no bubbles.
Day 6 in fermentation
12-09-2020 07:39 @ 20.4 C, dp = 1 mm H20, no bubbles.
12-09-2020 21:26 @ 20.4 C, dp = 1 mm H2O, no bubbles.
12-09-2020 23:53 @ 20.2 C, dp = 1 mm H2O, no bubbles.
Day 7 in fermenatation
13-09-2020 09:45 @ 20.9 C, dp = 1 mm H2O, no bubbles.
13-09-2020 12:40 @ 20.0 C, dp = 0.1 mm H2O, no bubbles.
13-09-2020 16:17 @ 20.9 C, dp = 0.1 mm H2O, no bubbles.
13-09-2020 21:02 @ 20.3 C, dp = 0.1 mm H2O, no bubbles.
Day 8 in fermentation
14-09-2020 00:14 @ 20.5 C, dp = 1 mm H2O, no bubbles.
14-09-2020 08:20 @ 20.3 C, dp = 0.1 mm H2O, no bubbles.
14-09-2020 11:57 @ 20.3 C, dp = 0.1 mm H2O, no bubbles.
14-09-2020 17:00 @ 20.9 C, dp = 2 mm H2O, no bubbles.
14-09-2020 22:02 @ 20.9 C, dp = 1 mm H2O, no bubbles.
Day 9 in fermentation
15-09-2020 00:34 @ 20.8 C. dp = 2 mm H2O, no bubbles.
15-09-2020 08:30 @ 20.5 C. dp = 0.1 mm H2O, no bubbles.
15-09-2020 13:24 @ 20.7 C. dp = 1 mm H2O, no bubbles.
15-09-2020 19:37 @ 20.9 C. dp = 1 mm H2O, no bubbles.
15-09-2020 23:11 @ 20.4 C. dp = 1 mm H2O, no bubbles.
Day 10 in fermentation
16-09-2020 08:28 @ 20.8 C. dp = 0.1 mm H2O, no bubbles.
16-09-2020 13:01 @ 20.9 C. dp = 0.1 mm H2O, no bubbles.
16-09-2020 19:24 @ 21.1 C. dp = 0.1 mm H2O, no bubbles.
16-09-2020 20:21 @ 22.5 C, dp = 0.1 mm H2O, no bubbles.
Bottling Day
16-09-2020 20:21 Final Gravity = 1.002 @ 22.5 C --> 1.002 @ 20 C.
16-09-2020 21:00 added 30 gram sugar @ 720 ml water.
16-09-2020 21:15 very pale yellow colour.
16-09-2020 21:17 filled 12.5 Steinie bottles (33 cl swing-top).
16-09-2020 21:32 @ 20.8 C.
Day 1 in conditioning
17-09-2020 00:33 @ 20.6 C.
17-09-2020 08:00 @ 20.2 C.
17-09-2020 11:45 @ 20.0 C.
17-09-2020 16:46 @ 20.9 C.
17-09-2020 22:23 @ 20.7 C.
17-09-2020 23:30 @ 20.7 C.
Day 2 in conditioning
18-09-2020 08:14 @ 20.7 C.
18-09-2020 12:17 @ 20.4 C.
18-09-2020 16:55 @ 20.4 C.
18-09-2020 23:44 @ 20.5 C.
Day 3 in conditioning
19-09-2020 08:33 @ 20.9 C.
19-09-2020 12:50 @ 20.7 C.
19-09-2020 17:13 @ 20.7 C.
19-09-2020 19:46 @ 20.8 C.
Day 4 in conditioning
20-09-2020 00:04 @ 20.8 C.
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20-09-2020 09:00 @ 20.2 C.



Batch Notes

20-09-2020 15:37 @ 20.2 C. 20-09-2020 21:30 @ 20.4 C. Day 5 in conditioning 21-09-2020 07:49 @ 20.2 C. 21-09-2020 10:31 @ 20.5 C. 21-09-2020 15:05 @ 20.1 C. 21-09-2020 22:18 @ 20.5 C. Day 6 in conditioning 22-09-2020 07:38 @ 20.8 C. 22-09-2020 14:08 @ 20.9 C. 22-09-2020 17:44 @ 20.5 C. 22-09-2020 20:54 @ 20.0 C. 22-09-2020 23:23 @ 20.4 C. Day 7 in conditioning 23-09-2020 08:03 @ 20.2 C. 23-09-2020 16:10 @ 20.3 C. 23-09-2020 23:21 @ 20.2 C. Day 8 in conditioning 24-09-2020 08:04 @ 20.1 C. 24-09-2020 12:34 @ 20.4 C. 24-09-2020 15:57 @ 20.3 C. 24-09-2020 22:59 @ 20.2 C. Day 9 in conditioning 25-09-2020 07:44 @ 20.6 C. 25-09-2020 13:33 @ 19.7 C. 25-09-2020 20:52 @ 19.9 C. 25-09-2020 23:32 @ 20.2 C. Day 10 in conditioning 26-09-2020 07:57 @ 19.6 C. 26-09-2020 14:47 @ 20.0 C. 26-09-2020 20:12 @ 20.5 C. 26-09-2020 22:52 @ 20.6 C. Day 11 in conditioning 27-09-2020 09:49 @ 20.7 C. 27-09-2020 14:14 @ 20.6 C. 27-09-2020 17:46 @ 20.9 C. 27-09-2020 22:43 @ 20.9 C. Day 12 in conditioning 28-09-2020 09:01 @ 20.6 C. 28-09-2020 13:00 @ 20.5 C. 28-09-2020 17:40 @ 20.4 C. 28-09-2020 22:45 @ 20.3 C. Day 13 in conditioning 29-09-2020 08:31 @ 19.9 C. 29-09-2020 13:23 @ 19.9 C. 29-09-2020 19:40 @ 20.1 C. 29-09-2020 22:44 @ 20.0 C. Day 14 in conditioning 30-09-2020 07:50 @ 20.8 C. 30-09-2020 14:03 @ 20.3 C. 30-09-2020 19:55 @ 20.8 C. 30-09-2020 23:17 @ 20.7 C. Day 15 in conditioning 01-10-2020 08:05 @ 20.5 C. 01-10-2020 10:50 @ 20.3 C.



Batch Notes

01-10-2020 15:45 @ 20.3 C. 01-10-2020 20:41 @ 20.0 C. 01-10-2020 23:54 @ 20.6 C. Day 16 in conditioning 02-10-2020 08:47 @ 19.5 C. 02-10-2020 11:36 @ 19.8 C. 02-10-2020 15:14 @ 20.8 C. 02-10-2020 20:59 @ 20.0 C. 02-10-2020 22:58 @ 20.0 C. Day 17 in conditioning 03-10-2020 09:28 @ 19.6 C. 03-10-2020 14:14 @ 19.1 C. 03-10-2020 18:45 @ 19.2 C. 03-10-2020 21:34 @ 20.0 C. Day 18 in conditioning 04-10-2020 08:57 @ 19.5 C. 04-10-2020 13:46 @ 19.8 C. 04-10-2020 20:20 @ 19.2 C. 04-10-2020 23:24 @ 19.5 C. Day 19 in conditioning 05-10-2020 08:38 @ 19.5 C. 05-10-2020 12:50 @ 19.5 C. 05-10-2020 19:17 @ 19.1 C. 05-10-2020 23:31 @ 19.0 C. Day 20 in conditioning 06-10-2020 07:52 @ 19.6 C. 06-10-2020 10:54 @ 19.3 C. 06-10-2020 14:17 @ 19.4 C. 06-10-2020 20:45 @ 19.9 C. Day 21 in conditioning 07-10-2020 00:15 @ 19.8 C. 07-10-2020 08:22 @ 19.2 C. 07-10-2020 21:05 @ 19.8 C. Day 22 in conditioning 08-10-2020 00:24 @ 19.6 C. 08-10-2020 08:32 @ 19.8 C. 08-10-2020 11:56 @ 19.4 C. 08-10-2020 15:43 @ 19.3 C. 08-10-2020 20:47 @ 19.1 C. 08-10-2020 22:34 @ 19.2 C. Day 23 in conditioning 09-10-2020 08:51 @ 19.0 C. 09-10-2020 12:52 @ 19.2 C. 09-10-2020 18:02 @ 19.6 C. 09-10-2020 23:07 @ 19.0 C. Day 24 in conditioning 10-10-2020 09:46 @ 19.4 C. 10-10-2020 13:26 @ 19.3 C. 10-10-2020 17:25 @ 19.2 C. 10-10-2020 23:13 @ 19.8 C. Day 25 in conditioning 11-10-2020 08:58 @ 18.8 C. 11-10-2020 12:59 @ 19.7 C. 11-10-2020 16:18 @ 19.2 C. 11-10-2020 21:17 @ 19.0 C.



Batch Notes

Day 26 in conditioning 12-10-2020 09:42 @ 19.8 C. 12-10-2020 13:25 @ 19.7 C. 12-10-2020 20:44 @ 19.5 C.	,
Day 27 in conditioning 13-10-2020 00:43 @ 19.5 C. 13-10-2020 09:38 @ 18.9 C. 13-10-2020 14:35 @ 19.5 C. 13-10-2020 19:21 @ 19.1 C. 13-10-2020 23:58 @ 19.9 C.	
Day 28 in conditioning 14-10-2020 08:06 @ 19.6 C. 14-10-2020 14:25 @ 19.5 C. 14-10-2020 19:16 @ 19.7 C. 14-10-2020 23:18 @ 19.5 C.	
Day 29 in conditioning 15-10-2020 08:15 @ 19.0 C. 15-10-2020 11:50 @ 19.5 C. 15-10-2020 14:10 @ 19.0 C. 15-10-2020 22:53 @ 19.0 C.	
Day 30 in conditioning 16-10-2020 08:41 @ 18.3 C. 16-10-2020 13:18 @ 18.8 C. 16-10-2020 18:26 @ 18.0 C. 16-10-2020 23:02 @ 18.5 C.	
Day 31 in conditioning 17-10-2020 10:24 @ 18.4 C. 17-10-2020 14:01 @ 18.9 C. 17-10-2020 19:09 @ 19.1 C.	,
Day 32 in conditioning 18-10-2020 09:20 @ 18.5 C. 18-10-2020 16:30 @ 18.9 C. 18-10-2020 20:54 @ 18.7 C. 18-10-2020 23:21 @ 18.9 C.	
Day 33 in conditioning 19-10-2020 08:57 @ 18.9 C. 19-10-2020 13:15 @ 18.5 C. 19-10-2020 17:54 @ 18.9 C. 19-10-2020 22:10 @ 18.7 C.	
Day 34 in conditioning 20-10-2020 00:07 @ 18.5 C. 20-10-2020 08:37 @ 18.4 C. 20-10-2020 12:22 @ 18.5 C. 20-10-2020 18:49 @ 18.6 C. 20-10-2020 23:02 @ 18.4 C.	
Day 35 in conditioning 21-10-2020 08:24 @ 18.8 C. 21-10-2020 12:34 @ 18.2 C. 21-10-2020 18:38 @ 18.5 C. 21-10-2020 23:33 @ 18.7 C.	
Day 36 in conditioning 22-10-2020 08:28 @ 18.4 C. 22-10-2020 12:58 @ 18.5 C. 22-10-2020 18:10 @ 18.8 C. 22-10-2020 23:04 @ 18.5 C.	



Batch Notes

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Day 37 in conditioning
23-10-2020 09:01 @ 18.1 C.
23-10-2020 13:56 @ 18.4 C.
23-10-2020 18:31 @ 18.4 C.
23-10-2020 22:58 @ 18.9 C.
Day 38 in conditioning
24-10-2020 09:15 @ 18.2 C.
24-10-2020 11:48 @ 18.5 C.
24-10-2020 14:07 @ 18.4 C.
24-10-2020 16:54 @ 18.7 C.
Day 39 in conditioning
25-10-2020 07:05 @ 19.2 C.
25-10-2020 12:07 @ 19.3 C.
25-10-2020 15:10 @ 19.9 C.
25-10-2020 19:12 @ 20.7 C.
25-10-2020 21:30 @ 20.5 C.
Day 40 in conditioning
26-10-2020 04:29 @ 19.6 C.
26-10-2020 07:47 @ 19.2 C.
26-10-2020 10:19 @ 19.6 C.
26-10-2020 15:45 @ 20.4 C.
26-10-2020 20:55 @ 21.1 C.
26-10-2020 23:46 @ 19.9 C.
Day 41 in conditioning
27-10-2020 07:26 @ 19.9 C.
27-10-2020 12:20 @ 19.7 C.
27-10-2020 15:41 @ 19.5 C.
27-10-2020 20:30 @ 19.9 C.
Day 42 in conditioning
28-10-2020 00:17 @ 19.8 C.
28-10-2020 08:09 @ 19.7 C.
28-10-2020 13:44 @ 19.4 C.
28-10-2020 18:51 @ 19.6 C.
28-10-2020 23:56 @ 19.9 C.
Day 43 in conditioning
29-10-2020 08:23 @ 19.4 C.
29-10-2020 12:44 @ 19.5 C.
29-10-2020 20:06 @ 19.8 C.
29-10-2020 23:43 @ 19.2 C.
Day 44 in conditioning
30-10-2020 08:29 @ 19.0 C.
30-10-2020 14:09 @ 19.3 C.
30-10-2020 18:35 @ 19.7 C.
30-10-2020 23:42 @ 19.7 C.
Day 45 in conditioning
31-10-2020 08:32 @ 19.5 C.
31-10-2020 14:22 @ 19.7 C.
31-10-2020 19:25 @ 19.7 C.
31-10-2020 23:44 @ 19.4 C.
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Batch Log 6 September 2020 Brew Date 6 September 2020 Fermentation Start 6 September 2020 09:30 Status: Brewing



Batch Log	
6 September 2020 13:25	Status: Fermenting
16 September 2020	Bottling Date
16 September 2020 21:17	Filled 13 Steinie bottles (33 cl).
31 October 2020 23:46	Status: Completed

Taste

2.7 / 5.0