

Brewdog - #310 Clockwork Tangerine (clone) - 5%

American IPA Author: Brewdog Boil Size Type: All Grain IBU : 26 (Tinseth) Mash Water Colour : 15 EBC Carbonation : 2.4 CO2-vol Boil Time Total Water Pre-Boil Gravity : 1.035 Original Gravity : 1.047 Total Gravity : 1.049 Final Gravity : 1.011 Fermentables (1.16 kg) Mash Steps 1 kg - Pale Ale Malt 5.5 EBC (86.2%) ^ The Malt Miller (UK) MAL-00-042 130 g - Caramalt 29.5 EBC (11.2%) ^ The Malt Miller (UK) MAL-01-014 30 g - CaraMunich Type 3 150 EBC (2.6%) Imported ^ The Malt Miller (UK) MAL-01-011 30 g - Bottling - Sugar, Table (Sucrose) 2 EBC ^ Albert Heijn (NL) Water Profile Hops (55.3 g) 70 min - 1.4 g - Simcoe - 12.7% (9 IBU) 70 min - 0.5 g - Citra - 11% (3 IBU) 10 min - 1.4 g - Ahtanum - 6% (2 IBU) 10 min - 1.4 g - Chinook - 13% (4 IBU) 10 min - 0.6 g - Citra - 11% (1 IBU) 10 min - 0.6 g - Simcoe - 12.7% (2 IBU) Mash pH: Hop Stand 10 min hopstand @ 80 °C Boil Volume: 10 min - 5 g - Simcoe - 12.7% (3 IBU) 10 min - 2.2 g - Mosaic - 12.5% (1 IBU) 10 min - 1.4 g - Citra - 11% (1 IBU) 10 min - 0.8 g - Chinook - 13% (0 IBU) Dry Hops 7 days - 11.2 g - Simcoe - 12.7% 7 days - 7 g - Citra - 11% 7 days - 7 g - Mosaic - 12.5% 7 days - 5.3 g - Chinook - 13% 7 days - 4.2 g - Ahtanum - 6% 7 days - 4.2 g - Summit - 18.5% 7 days - 1.1 g - Amarillo (Whole) - 7.7% Miscellaneous Mash - 0.57 g - Epsom Salt (MgSO4) ^ Lot # /2119000091 ^ Brouwstore (NL) 055.027.7 Mash - 1 ml - Lactic Acid 80% 88% ^ 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

^ Brouwstore (NL) 057.020.20

^ Lot # 154001112904ABV ^ Brouwstore (NL) 050.620.4

60 min - Boil - 0.15 g - Lipohop K ^ The Malt Miller (UK) CH-03-013

10 min - Boil - 1 items - Wort Chiller

10 min - Boil - 0.06 g - Lallemand Servomyces

01 Brouwpunt 5L (70min) (rev 4) : 5.6 L Batch Size : 8.06 L Post-Boil Vol : 5.96 L : 3.48 L Sparge Water : 5.81 L 15 EBC : 70 min : 9.29 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile 72.1 °C - Strike Temp 66 °C - 60 min - Infusion

Fermentation Profile 18 °C - 0 days - Primary

NL Hoofddorp Rein Tap Water (2020-Q1 WQR) (St... Ca 41 Mg 15 Na 67 Cl 71 SO 68

SO/Cl ratio: 1 Mash pH: 5.41

Measurements

Pre-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume:

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Recipe Notes

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