0.8 pkg - Fermentis Saflager Lager W-34/70

^ The Malt Miller (UK) YEA-02-032



AnOtter Munich Helles Lager - 5.4%

01 Brouwpunt 5L (30min) (rev 4) Munich Helles Author: The Thirsty Otter Batch Size : 5.6 L Boil Size : 6.86 L Post-Boil Vol : 5.96 L Type: All Grain IBU : 19 (Tinseth) Mash Water : 3.38 L BU/GU : 0.4 Sparge Water : 4.68 L 7 EBC Colour : 7 EBC Boil Time : 30 min Carbonation : 2.5 CO2-vol Total Water : 8.06 L Pre-Boil Gravity : 1.040 Brewhouse Efficiency: 71.8% : 1.046 Mash Efficiency: 73.3% Original Gravity Total Gravity : 1.048 : 1.007 Mash Profile Final Gravity High fermentability plus mash out Fermentables (1.13 kg) 71 °C - Strike Temp 65 °C - 60 min - Temperature 1 kg - Premium Pilsner Extra Pale Malt 2.5 EB... 75 °C - 10 min - Mash Out ^ Brouwmaatje (NL) 051.249.1 50 g - Carapils 4 EBC (4.4%) ^ Brouwmaatje (NL) BM-BL.051.307.7/1 Fermentation Profile 50 g - Swaen Vienna 12 EBC (4.4%) Lager (Quick Method) ^ Brouwmaatje (NL) BM-SWAEN@VIENNA 10 °C - 5 days - Primary 13 °C - 2 days - Primary 25 g - Melanoidin Malt 70 EBC (2.2%) 14 °C - 1 days - Primary ^ The Malt Miller (UK) MAL-00-025 32 g - Bottling - Sugar, Table (Sucrose) 2 EBC 15 °C - 1 days - Primary 5 °C - 21 days - Conditioning ^ Albert Heijn (NL) Hops (22 g) Water Profile 02 NL Spa Reine Flat Mineral Water (www.ah.nl... 30 min - 12 g - Saaz - 3.6% (16 IBU) ^ Lot # T9020044SAA Ca 21 Mg 4 Na 38 Cl 76 SO 25 HCO 20 ^ Brouwmaatje (NL) BM-HUM.420000 Humlegarden... 5 min - 10 g - Saaz - 3.6% (3 IBU) SO/Cl ratio: 0.3 ^ Lot # T9020044SAA Mash pH: 5.38 ^ Brouwmaatje (NL) BM-HUM.420000 Humlegarden... Sparge pH: 6 Miscellaneous Measurements Mash - 0.03 g - Baking Soda (NaHCO3) ^ Lot # 41190621/3 Mash pH: ^ Brouwstore (NL) 003.106.2 Mash - 0.7 g - Calcium Chloride (CaCl2) 33 % 33% Boil Volume: ^ Lot # 115038 ^ Brouwstore (NL) 055.035.0 Pre-Boil Gravity: Mash - 0.7 g - Canning Salt (NaCl) ^ Albert Heijn (NL) Post-Boil Kettle Volume: Mash - 0.18 g - Epsom Salt (MgSO4) ^ Lot # /2119000091 Original Gravity: ^ Brouwstore (NL) 055.027.7 Mash - 0.18 g - Gypsum (CaSO4) Fermenter Top-Up: ^ The Malt Miller (UK) CHE-03-004 Fermenter Volume: Mash - 0.9 ml - Lactic Acid 80% 80% ^ Lot # 20200213 ^ Brouwstore (NL) 003.002.3 Final Gravity: 15 min - Boil - 0.308 items - Yeast Nutrients 10 min - Boil - 0.308 items - Supermoss HB Fi... Bottling Volume:

AnOtter Munich Helles Lager



Recipe Notes

The recipe from the David Heath video guide on Youtube "Munich Helles Lager HomeBrewers Guide & Recipe".

Adapted for local available ingredients.

W34/70 Tmax = 15 C, tweaked the fermentation profile (was day 9 @ 17 C and day 10 @ 19 C).