

Munich Helles Lager - 5.4%

Munich Helles 01 Brouwpunt 5L (30min) (rev 4) Author: David Heath Batch Size : 5.6 L Boil Size : 6.86 L Post-Boil Vol : 5.96 L Type: All Grain IBU : 20 (Tinseth) Mash Water : 3.4 L BU/GU : 0.42 Sparge Water : 4.67 L 8 EBC Colour : 8 EBC Boil Time : 30 min Carbonation : 2.5 CO2-vol Total Water : 8.07 L : 1.039 Pre-Boil Gravity Brewhouse Efficiency: 71.8% Original Gravity : 1.045 Mash Efficiency: 73.3% Total Gravity : 1.048 Mash Profile Final Gravity : 1.007 High fermentability plus mash out 71 °C - Strike Temp Fermentables (1.13 kg) 1 kg - Pilsner Malt 3.5 EBC (88.2%) 65 °C - 60 min - Temperature 75 °C - 10 min - Mash Out 61 g - Carapils/Carafoam 3.9 EBC (5.4%) 49 g - Vienna Malt 9 EBC (4.3%) 24 g - Melanoidin 59 EBC (2.1%) Fermentation Profile 32 g - Bottling - Sugar, Table (Sucrose) 2 EBC Lager (Quick Method) 10 °C - 5 days - Primary ^ Albert Heijn (NL) 13 °C - 2 days - Primary Hops (14.3 g) 17 °C - 1 days - Primary 19 °C - 1 days - Primary 30 min - 8.1 g - Summer (Summer Saaz) - 5.5%... 5 min - 6.2 g - Summer (Summer Saaz) - 5.5% (... 5 °C - 21 days - Conditioning Miscellaneous Water Profile Mash - 0.03 g - Baking Soda (NaHCO3) 02 NL Spa Reine Flat Mineral Water (www.ah.nl... ^ Lot # 41190621/3 Ca 21 Mg 4 Na 38 Cl 76 SO 25 ^ Brouwstore (NL) 003.106.2 Mash - 0.7 g - Calcium Chloride (CaCl2) 33 % 33% SO/Cl ratio: 0.3 Mash pH: 5.37 ^ Lot # 115038 ^ Brouwstore (NL) 055.035.0 Sparge pH: 6 Mash - 0.7 g - Canning Salt (NaCl) ^ Albert Heijn (NL) Measurements Mash - 0.18 g - Epsom Salt (MgSO4) ^ Lot # /2119000091 Mash pH: ^ Brouwstore (NL) 055.027.7 Boil Volume: Mash - 0.18 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004 Mash - 0.9 ml - Lactic Acid 80% 80% Pre-Boil Gravity: ^ Lot # 20200213 ^ Brouwstore (NL) 003.002.3 Post-Boil Kettle Volume: 15 min - Boil - 0.308 items - Yeast Nutrients 10 min - Boil - 0.308 items - Supermoss HB Fi... Original Gravity: Fermenter Top-Up: 0.8 pkg - Fermentis Saflager Lager W-34/70 Fermenter Volume: Final Gravity:

Recipe Notes

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

Bottling Volume: