

Munich Helles (20230330) - 4.7%

01 Brouwpunt 5L (75min) (rev 4) Munich Helles Author: GHW@homebrewinguk.com Batch Size : 5.6 L Boil Size : 8.21 L Post-Boil Vol : 5.96 L Type: All Grain IBU Mash Water : 3.62 L : 18 (Tinseth) BU/GU : 0.37 Sparge Water : 5.87 L 8 EBC : 75 min Colour : 8 EBC Boil Time Carbonation : 2.5 CO2-vol Total Water : 9.49 L Pre-Boil Gravity : 1.035 Brewhouse Efficiency: 71.8% : 1.048 Mash Efficiency: 73.3% Original Gravity : 1.012 Final Gravity Mash Profile Fermentables (1.21 kg) 01 One Step Mash (60 min) 71 °C - Strike Temp 1.085 kg - Chateau Pilsen 2-Row 3.5 EBC (89.9%) ^ Lot # 20220915 65 °C - 60 min - Temperature ^ Brouwmaatje (NL) BM-BL.051.002.4 103 g - Chateau Munich Light 13 EBC (8.5%) Fermentation Profile ^ Brouwmaatje (NL) BM-BL.051.614.1/1 01 Ale + DR + Conditioning 19 g - Acid Malt 5.9 EBC (1.6%) 18 °C - 10 days - Primary 21 °C - 4 days - Diacetyl rest Hops (14 g) 18 °C - 14 days - Carbonation 60 min - 8.4 g - Hallertauer Mittelfrueh - 3.... 18 °C - 28 days - Conditioning 10 min - 5.6 g - Hallertauer Mittelfrueh - 3.... Water Profile 02 NL Spa Reine Flat Mineral Water (www.ah.nl... Miscellaneous Mash - 0.04 g - Baking Soda (NaHCO3) Ca 20 Mg 4 Na 38 Cl 75 SO 25 ^ Lot # 41190621/3 ^ Brouwstore (NL) 003.106.2 SO/Cl ratio: 0.3 Mash - 0.82 g - Calcium Chloride (CaCl2) 33 %... Mash pH: 5.38 ^ Lot # 115038 Sparge pH: 6 ^ Brouwstore (NL) 055.035.0 Mash - 0.81 g - Canning Salt (NaCl) Measurements ^ Albert Heijn (NL) Mash - 0.21 g - Epsom Salt (MgSO4) Mash pH: ^ Lot # /2119000091 Boil Volume: ^ Brouwstore (NL) 055.027.7 Mash - 0.21 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004 Pre-Boil Gravity: Mash - 0.5 ml - Lactic Acid 80% 80% ^ Lot # 20200213 Post-Boil Kettle Volume: ^ Brouwstore (NL) 003.002.3 Original Gravity: Yeast 0.4 pkg - Wyeast Labs Munich Lager 2308 Fermenter Top-Up: Fermenter Volume: Final Gravity:

Bottling Volume:

Recipe Notes

Target: ABV = 5 %, IBU = 20, OG = 1.048, FG = 1.009.