

xBmt-20191007 Bootleg Biology OSLO Ferm Temp - 6%

German Helles Exportbier

Author: Matt Del Fiacco

Type: All Grain

IBU : 20 (Tinseth)
 BU/GU : 0.36
 Colour : 8 EBC
 Carbonation : 2.5 CO2-vol

Pre-Boil Gravity : 1.041
 Original Gravity : 1.053
 Total Gravity : 1.055
 Final Gravity : 1.009

Fermentables (1.3 kg)

1.277 kg - Barke Pilsner (Weyermann) 3.3 EBC...
 25 g - Melanoidin (Weyermann) 59 EBC (1.9%)
 31 g - Bottling - Sugar, Table (Sucrose) 2 EBC
 ^ Albert Heijn (NL)

Hops (8.9 g)

60 min - 8.9 g - Hallertauer Mittelfrueh - 4....

Miscellaneous

Mash - 0.55 g - Baking Soda (NaHCO3)
 ^ Lot # 41190621/3
 ^ Brouwstore (NL) 003.106.2
 Mash - 2.07 g - Calcium Chloride (CaCl2) 33 %...
 ^ Lot # 115038
 ^ Brouwstore (NL) 055.035.0
 Mash - 0.71 g - Canning Salt (NaCl)
 ^ Albert Heijn (NL)
 Mash - 0.44 g - Epsom Salt (MgSO4)
 ^ Lot # /2119000091
 ^ Brouwstore (NL) 055.027.7
 Mash - 0.45 g - Gypsum (CaSO4)
 ^ The Malt Miller (UK) CHE-03-004
 Mash - 1.2 ml - Lactic Acid 80% 80%
 ^ Lot # 20200213
 ^ Brouwstore (NL) 003.002.3

Yeast

0.5 pkg - Bootleg Biology Oslo BBOSL-OSLO

01 Brouwpunt 5L (60min) (rev 4)

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

Mash Water : 3.91 L
 Sparge Water : 5.22 L
 Boil Time : 60 min
 Total Water : 9.13 L



8 EBC

Brewhouse Efficiency: 71.8%
 Mash Efficiency: 73.3%

Mash Profile

eBIAB Single Infusion
 70.4 °C - Strike Temp
 64.4 °C - 50 min - Step One

Fermentation Profile

Imported
 18.3 °C - 10 days - Primary
 18.3 °C - 10 days - Secondary
 18.3 °C - 7 days - Conditioning

Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl)...
 Ca 43 Mg 7 Na 50 Cl 100 SO 50

SO/Cl ratio: 0.5
 Mash pH: 5.38
 Sparge pH: 6

Measurements

Mash pH:

Boil Volume:

Pre-Boil Gravity:

Post-Boil Kettle Volume:

Original Gravity:

Fermenter Top-Up:

Fermenter Volume:

Final Gravity:

Bottling Volume:

Recipe Notes

Water Profile: Ca 54 | Mg 11 | Na 25 | SO4 81 | Cl 65
<http://brulosophy.com/2019/10/07/fermentation-temperature-bootleg-biology-oslo-kveik-yeast-exbeeriment-results/>