

11 EBC

## The Hop Chronicles | Amarillo LUPOMAX (2020) Pale Ale - 5.4%

American Pale Ale Author: Paul Amico Batch Size

Type: All Grain

IBU : 43 (Tinseth) BU/GU : 0.83 Colour : 11 EBC Carbonation : 2.4 CO2-vol

Pre-Boil Gravity : 1.040 : 1.052 Original Gravity : 1.011 Final Gravity

Fermentables (1.35 kg)

1.122 kg - Lamonta: Pale American Barley Malt...

224 g - Vanora: Vienna-style Barley Malt 13.8...

Hops (38.2 g)

60 min - 0.5 g - Amarillo LUPOMAX - 14% (3 IBU) 30 min - 3.2 g - Amarillo LUPOMAX - 14% (17 IBU)

15 min - 4.3 g - Amarillo LUPOMAX - 14% (14 IBU)

2 min - 15.1 g - Amarillo LUPOMAX - 14% (9 IBU)

Dry Hops

4 days - 15.1 g - Amarillo LUPOMAX - 14%

Miscellaneous

Mash - 0.11 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 1.7 g - Calcium Chloride (CaCl2) 33 % 33%

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.09 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 2.45 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004

Mash - 0.2 ml - Lactic Acid 80% 80%

^ Lot # 20200213

^ Brouwstore (NL) 003.002.3

Yeast

0.3 pkg - Imperial Yeast Flagship A07

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

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

Mash Water : 4.04 L Sparge Water : 5.13 L Boil Time : 60 min Total Water : 9.17 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile

03 - High/Moderate Fermentability

72.9 °C - Strike Temp

66.7 °C - 60 min - Temperature

Fermentation Profile

Ale

18.9 °C - 9 days - Primary

Water Profile

02 NL Spa Reine Flat Mineral Water (www.ah.nl...

Ca 89 Mg 2 Na 10 Cl 50 SO 153

SO/Cl ratio: 3.1 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 92 | Mg 1 | Na 10 | SO4 153 | Cl 50