

14 EBC

xBmt-20201207 Acidulated Malt vs. Phosphoric Acid - 4.9%

American Pale Ale Author: Cade Jobe

Type: All Grain

 IBU
 : 48 (Tinseth)

 BU/GU
 : 0.94

 Colour
 : 14 EBC

 Carbonation
 : 2.3 CO2-vol

Pre-Boil Gravity : 1.039
Original Gravity : 1.051
Final Gravity : 1.014

Fermentables (1.34 kg)

1.195 kg - Pale Malt (2 Row) US 3.9 EBC (89.5%) 78 g - Acid Malt (or additional Pale Malt) 5.... 63 g - Caramel/Crystal Malt - 60L 118 EBC (4.7%)

Hops (31.4 g)

60 min - 4.8 g - Hallertau Magnum - 14% (33 IBU) 30 min - 3.8 g - Centennial - 10% (14 IBU) 1 min - 7.5 g - Cascade - 5.5% (1 IBU)

Dry Hops

3 days - 15.3 g - Cascade - 5.5%

Miscellaneous

Mash - 0.25 g - Baking Soda (NaHCO3)

^ Lot # 41190621/3

^ Brouwstore (NL) 003.106.2

Mash - 0.24 g - Calcium Chloride (CaCl2) 33 %...

^ Lot # 115038

^ Brouwstore (NL) 055.035.0

Mash - 0.22 g - Canning Salt (NaCl)

^ Albert Heijn (NL)

Mash - 0.4 g - Epsom Salt (MgSO4)

^ Lot # /2119000091

^ Brouwstore (NL) 055.027.7 Mash - 0.41 g - Gypsum (CaSO4)

^ The Malt Miller (UK) CHE-03-004

Yeast

0 ml - Imperial Yeast Independence A15

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

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

Mash Water : 4.01 L Sparge Water : 5.15 L Boil Time : 60 min Total Water : 9.16 L

Brewhouse Efficiency: 71.8% Mash Efficiency: 73.3%

Mash Profile
BIAB, Medium Body
72.9 °C - Strike Temp

66.7 °C - 60 min - Saccharification

Fermentation Profile

Imported

17.8 °C - 4 days - Primary 22.2 °C - 10 days - Secondary -1.1 °C - 30 days - Conditioning

Water Profile

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

Ca 19 Mg 6 Na 20 Cl 25 SO 46

SO/Cl ratio: 1.8 Mash pH: 5.15 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 25 \mid Mg 7 \mid Na 20 \mid S04 46 \mid Cl 25 https://brulosophy.com/2020/12/07/water-chemistry-phosphoric-acid-vs-acidulated-malt-in-american-pale-ale-exbeeriment-results/