

# To Ø1 - Dangerously Close To Stupid (clone) - 9.3%

Double IPA 01 Brouwpunt 5L (60min) (rev 4) Author: Kasper Skytte Andersen Batch Size : 5.6 L Boil Size : 7.76 L Post-Boil Vol : 5.96 L Type: All Grain IBU : 81 (Tinseth) Mash Water : 5.74 L : 3.98 L BU/GU : 0.97 Sparge Water 12 EBC Colour : 12 EBC Boil Time : 60 min Carbonation : 2.4 CO2-vol Total Water : 9.72 L 50% diluted with 4.86 L Reverse Osmosis Water Pre-Boil Gravity : 1.059 Original Gravity : 1.084 Brewhouse Efficiency: 71.8% Final Gravity Mash Efficiency: 73.3% : 1.013 Fermentables (2.01 kg) Mash Profile 1.866 kg - Pilsner 4 EBC (92.7%) High fermentability 99 g - Sugar, Table (Sucrose) 2 EBC (4.9%) 56.3 °C - Strike Temp ^ Add at flame out or during hopstand/whirlpool 52 °C - 5 min - Mash in (small protein rest) 47 g - Melanoidin 59 EBC (2.3%) 66 °C - 45 min - Beta amylase Hops (111.6 g) Fermentation Profile 60 min - 9.4 g - Chinook - 13% (51 IBU) 5 min - 9.9 g - Centennial - 10% (13 IBU) 22 °C - 5 days - Primary fermentation 2 °C (1 day ramp) - 2 days - Dry hop + cold c... Hop Stand 2 °C - 7 days - Transfer (+ Filter) + Mature 20 min hopstand @ 80 °C Water Profile 20 min 80 °C - 19.8 g - Citra - 12% (13 IBU) 20 min 80 °C - 9.9 g - Amarillo Gold - 8.5% (... 02 NL Spa Reine Flat Mineral Water (www.ah.nl... Ca 99 Mg 20 Na 10 Cl 50 SO 250 Dry Hops 2 days - 24.7 g - Citra - 12% SO/Cl ratio: 5 2 days - 24.7 g - Simcoe - 13% Mash pH: 5.39 2 days - 6.6 g - Amarillo Gold - 8.5% Sparge pH: 6 2 days - 6.6 g - Centennial - 10% Measurements Miscellaneous Mash - 0.07 g - Baking Soda (NaHCO3) Mash pH: ^ Lot # 41190621/3 Boil Volume: ^ Brouwstore (NL) 003.106.2 Mash - 1.93 g - Calcium Chloride (CaCl2) 33 %... ^ Lot # 115038 Pre-Boil Gravity: ^ Brouwstore (NL) 055.035.0 Mash - 0.06 g - Canning Salt (NaCl) Post-Boil Kettle Volume: ^ Albert Heijn (NL) Mash - 1.87 g - Epsom Salt (MgSO4) Original Gravity: ^ Lot # /2119000091 ^ Brouwstore (NL) 055.027.7 Fermenter Top-Up: Mash - 3.01 g - Gypsum (CaSO4) ^ The Malt Miller (UK) CHE-03-004 Fermenter Volume: Mash - 0.4 ml - Lactic Acid 80% 80% ^ Lot # 20200213 Final Gravity: ^ Brouwstore (NL) 003.002.3 5 min - Boil - 0.329 items - Protafloc Bottling Volume: ^ There are plenty of other options out there...

0.9 pkg - Fermentis Safale American US-05

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## Recipe Notes

### To Øl notes:

It would be dangerously close to stupid not to brew another batch of Dangerously Close To Stupid. This beast was the first DIPA that To  $\emptyset$ l ever did, and after it blazed a trail of chaos all over the world for years, and is a To  $\emptyset$ l favorite for many, us included!

This expression is our take on the West Coast DIPA heavily focused on Citra and Centennial.

#### My personal notes:

The original recipe lists Cascade instead of Centennial, but in the description they mention Centennial.

One or the other is a mistake, who knows which, I use Centennial here because of the higher AA.

Malt bill: Compared to the original recipe I've added a bit more sugar to push the ABV to 9.3%. It's a matter of equipment and efficiency.

Hops: I also added a bit more of the 60 min boil Chinook to hit (estimated) 75 IBU.

Dry hop: Dry hop during cold crash to reduce chance of hop creep and to maximize hop utilization. Water profile: Matter of taste, but a bitter west coast IPA needs to be crisp and dry, so I would up the sulphate to chloride ratio with up to 200-250 ppm sulphate and keep chloride below 50ppm or so.