Single Hop APA - Topaz

- Gravity 13.3 BLG
- ABV 5.5 %
- IBU **44**
- SRM 4.5
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 11 liter(s)
- · Boil time 60 min
- Evaporation rate 20 %/h
- Boil size 15.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9 liter(s)
- Total mash volume 12 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 72 C, Time 30 min
- Temp 79 C, Time 10 min

Mash step by step

- Heat up 9 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 30 min at 72C
- Keep mash 10 min at 79C
- Sparge using 9.6 liter(s) of 76C water or to achieve 15.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2.5 kg <i>(83.3%)</i>	80 %	5
Grain	Weyermann - Rye Malt	0.2 kg <i>(6.7%)</i>	85 %	7
Grain	Weyermann - Dark Wheat Malt	0.1 kg <i>(3.3%)</i>	85 %	14
Grain	Weyermann - Diastatic Barley	0.2 kg <i>(6.7%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Topaz	5 g	60 min	15 %
Boil	Topaz	10 g	20 min	15 %
Aroma (end of boil)	Topaz	10 g	10 min	15 %
Aroma (end of boil)	Topaz	5 g	5 min	15 %
Dry Hop	Topaz	20 g	7 day(s)	15 %

Yeasts

Name Typ	/pe	Form	Amount	Laboratory
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Safale US-05	Ale	Dry	5.5 g	Safale