Smoked APA

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU 40
- SRM **5.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 2 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 2 min at 78C
- Sparge using 14.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (72.7%)	80 %	6
Grain	Smoked Malt	1 kg (18.2%)	80 %	10
Grain	Viking Munich Malt	0.5 kg (9.1%)	78 %	13

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade PL	50 g	15 min	5.2 %
Dry Hop	Cascade PL	50 g	2 day(s)	5.2 %
Boil	Izabella PL	50 g	40 min	5.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	20 g	Safale