APA centenial

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **22**
- SRM **3.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 12.8 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 8 liter(s)
- Total mash volume 10 liter(s)

Steps

- Temp 64 C, Time 60 min
 Temp 77 C, Time 10 min

Mash step by step

- Heat up 8 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 10 min at 77C
- Sparge using 6.8 liter(s) of 76C water or to achieve 12.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	2 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Centennial	20 g	15 min	9.5 %
Whirlpool	Centennial	20 g	0 min	9.5 %
Dry Hop	Citra	24 g	3 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	4.6 g	Fermentis