APA

- Gravity 11 BLG
- ABV 4.4 %
- IBU **23**
- SRM 3.2

Batch size

- Expected quantity of finished beer 200 liter(s)
- Trub loss 0 %
- Size with trub loss 200 liter(s)
- Boil time 60 min
- Evaporation rate 1 %/h
- Boil size 222.2 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 83.8 liter(s)
- Total mash volume 117.3 liter(s)

Steps

- Temp 63 C, Time 45 min
 Temp 72 C, Time 20 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 83.8 liter(s) of strike water to 71.6C
- Add grains
- Keep mash 45 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 171.9 liter(s) of 76C water or to achieve 222.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	33.5 kg <i>(100%)</i>	100 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	100 g	60 min	12 %
Boil	Citra	100 g	20 min	12 %
Aroma (end of boil)	Citra	100 g	0 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	23 g	Safale