# APA papa

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **21**
- SRM 4.1
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 2 %
- 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 65 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 14.7 liter(s)
- Total mash volume 19.6 liter(s)

### **Steps**

• Temp 68 C, Time 60 min

## Mash step by step

- Heat up 14.7 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 15.5 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	ЕВС
Grain	Viking Pale Ale malt	4.9 kg <i>(100%)</i>	80 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	13.3 %
Boil	Ahtanum	20 g	5 min	5 %
Boil	Equinox	10 g	5 min	13.1 %
Aroma (end of boil)	Ahtanum	10 g	0 min	5 %
Aroma (end of boil)	Equinox	20 g	0 min	13.1 %
Dry Hop	Citra	60 g	5 day(s)	12 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
US-05	Ale	Dry	11.5 g	