# pale ale

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **24**
- SRM **4.7**
- 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 65 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 24 liter(s)
- Total mash volume 30 liter(s)

#### **Steps**

• Temp 68 C, Time 60 min

## Mash step by step

- Heat up 24 liter(s) of strike water to 74C
- Add grains
- Keep mash 60 min at 68C
- Sparge using 7.3 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	5 kg <i>(83.3%)</i>	80 %	5
Grain	Viking Wheat Malt	1 kg (16.7%)	83 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	50 g	25 min	6.5 %

#### **Yeasts**

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