## **Golden Pale Ale**

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU **34**
- SRM **4**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 50 liter(s)
- Trub loss 5 %
- Size with trub loss 52.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 63.3 liter(s)

## **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 33 liter(s)
- Total mash volume 44 liter(s)

### **Steps**

- Temp 66 C, Time 30 min
  Temp 67.5 C, Time 30 min

# Mash step by step

- Heat up 33 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 30 min at 66C
- Keep mash 30 min at 67.5C
- Sparge using 41.3 liter(s) of 76C water or to achieve 63.3 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Vienna Malt	3 kg <i>(27.3%)</i>	79 %	7
Grain	Viking Pale Ale malt	8 kg <i>(72.7%)</i>	82 %	5

# Hops

Use for	Name	Amount	Time	Alpha acid
Aroma (end of boil)	Hallertau Blanc	150 g	15 min	9.8 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Liquid	500 ml	Fermentis