# Sierra Nevada Pale Ale

- Gravity 13.3 BLG ABV 5.51 %
- IBU 39.6
- SRM **9.9**

## **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 0 %
- Size with trub loss 25 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 34.96 liter(s)

## **Mash information**

- Mash efficiency **59** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.45 liter(s)
- Total mash volume 28.6 liter(s)

#### Steps

- Temp 68 C, Time 60 min
  Temp 76 C, Time 5 min

### Mash step by step

- Heat up 21.45 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 5 min at 76C
- Sparge using 20.7 liter(s) of 76C water or to achieve 34.96 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	6.7 kg	82.8 %	7
Grain	Caramunich III	0.45 kg	80.07 %	188

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	5 g	60 min	12 %
Boil	Perle	5 g	60 min	7 %
Boil	Cascade	75 g	30 min	5.5 %
Boil	Cascade	75 g	0 min	5.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
California Ale	Ale	Liquid	1000 ml	White Labs

#### **Extras**

Туре	Name	Amount	Use for	Time
Water Agent	Calcium Chloride	4 g	Mash	0 min
Water Agent	Gypsum (Calcium Sulfate)	5 g	Mash	0 min
Water Agent	Lactic Acid	4 g	Mash	0 min

Other	Yeast Nutrients	1 g	Boil	15 min
Fining	Whirlfloc	500 g	Boil	5 min