# **#23 Single Hop Session IPA Centennial**

- Gravity 11 BLG
- ABV 4.4 %
- IBU **41**
- SRM **3.4**
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

## **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3.66 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 19.1 liter(s)

### **Steps**

- Temp 64 C, Time 60 min
  Temp 77 C, Time 0 min

# Mash step by step

- Heat up 15 liter(s) of strike water to 70C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 0 min at 77C
- Sparge using 15.5 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.8 kg <i>(92.7%)</i>	80 %	5
Grain	Płatki owsiane	0.3 kg <i>(7.3%)</i>	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	20 g	55 min	10.5 %
Boil	Centennial	30 g	5 min	10.5 %
Aroma (end of boil)	Centennial	30 g	0 min	10.5 %
Whirlpool	Centennial	30 g	20 min	10.5 %
Dry Hop	Centennial	80 g	4 day(s)	10.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-33	Ale	Dry	11.5 g	