# Tomahawk ipa

- · Gravity 14 BLG
- ABV ----
- IBU **72**
- SRM **7.5**
- Style American IPA

### **Batch size**

- Expected quantity of finished beer 21 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

### **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 20.1 liter(s)

### Steps

• Temp 66 C, Time 60 min

### Mash step by step

- Heat up 14.4 liter(s) of strike water to 75.2C
- Add grains
- Keep mash 60 min at 66C
- Sparge using 19.1 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	3 kg <i>(52.2%)</i>	78 %	6
Grain	BESTMALZ - Best Pilsen	2.5 kg <i>(43.5%)</i>	80.5 %	4
Grain	Amber malt	0.25 kg <i>(4.3%)</i>	80 %	80

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	40 g	60 min	15.5 %
Aroma (end of boil)	Columbus/Tomahawk/Zeus	10 g	15 min	15.5 %
Dry Hop	Columbus/Tomahawk/Zeus	50 g	7 day(s)	15.5 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
M36	Ale	Dry	9.13 g	Mangrove jacks

## **Extras**

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	9.13 g	Boil	15 min