Brewing Bad IPA

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **56**
- SRM **4.2**
- Style American IPA

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 22.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 15.8 liter(s)
- Total mash volume 20.3 liter(s)

Steps

- Temp 62 C, Time 45 min
 Temp 72 C, Time 15 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 15.8 liter(s) of strike water to 68C
- Add grains
- Keep mash 45 min at 62C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 11.5 liter(s) of 76C water or to achieve 22.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4 kg (88.9%)	80 %	5
Grain	Płatki owsiane	0.5 kg (11.1%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	30 min	12 %
Boil	Citra	20 g	20 min	12 %
Boil	Citra	50 g	5 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	12 g	Safale