red ipa a'la

- Gravity 13.1 BLG
- ABV **5.3** %
- IBU **81**
- SRM **14**
- Style American IPA

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 10 %
- Size with trub loss 20.7 liter(s)
- · Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 27.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.6 liter(s)
- Total mash volume 20.8 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 15.6 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 5 min at 78C
- Sparge using 17.2 liter(s) of 76C water or to achieve 27.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	red activ viking malt	5 kg (96.2%)	79 %	30
Grain	crystal 160	0.2 kg <i>(3.8%)</i>	73 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	18 g	60 min	15.5 %
Boil	Citra	15 g	30 min	12 %
Boil	Simcoe	15 g	30 min	13.2 %
Boil	Amarillo	15 g	15 min	9.5 %
Boil	Simcoe	15 g	15 min	13.2 %
Dry Hop	Citra	50 g	7 day(s)	12 %
Dry Hop	Simcoe	50 g	7 day(s)	13.2 %
Dry Hop	Amarillo	30 g	7 day(s)	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM 52	Ale	Slant	300 ml	Fermentum

Extras

Туре	Name	Amount	Use for	Time
Fining	whirfloc	5 g	Boil	15 min