www

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU 47
- SRM **5.3**
- Style American IPA

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 3 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.4 liter(s)
- Total mash volume 23.2 liter(s)

Steps

- Temp 65 C, Time 30 min Temp 72 C, Time 15 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 17.4 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 13.7 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(60.3%)</i>	80 %	5
Grain	Rice, Flaked	1 kg <i>(17.2%)</i>	70 %	2
Grain	Bestmalz Red X	0.5 kg (8.6%)	79 %	30
Grain	Barley, Flaked	0.8 kg <i>(13.8%)</i>	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Pacific Gem	10 g	60 min	15.3 %
Boil	Enigma (AUS)	10 g	50 min	17.2 %
Boil	Enigma (AUS)	10 g	10 min	17.2 %
Aroma (end of boil)	Enigma (AUS)	30 g	0 min	17.2 %
Whirlpool	Pacific Gem	10 g	30 min	15.3 %
Dry Hop	orbit	50 g	3 day(s)	9.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Other	mango	1500 g	Secondary	7 day(s)