- Gravity 14.5 BLG
- ABV 6 %
- IBU **44**
- SRM 3.8
- Style American IPA

Batch size

- Expected quantity of finished beer 19 liter(s)
- Trub loss 5 %
- Size with trub loss 19.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 24.1 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

• Temp 66 C, Time 90 min

Mash step by step

- Heat up 15 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 90 min at 66C
- Sparge using 14.1 liter(s) of 76C water or to achieve 24.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	2 kg <i>(37%)</i>	80 %	7
Grain	Briess - Pilsen Malt	2.8 kg <i>(51.9%)</i>	80.5 %	2
Grain	Oats, Flaked	0.2 kg <i>(3.7%)</i>	80 %	2
Sugar	Milk Sugar (Lactose)	0.4 kg (7.4%)	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	10 g	55 min	13 %
Boil	Mosaic	40 g	10 min	10 %
Boil	Citra	60 g	5 min	12 %
Dry Hop	Mosaic	30 g	7 day(s)	10 %
Dry Hop	Citra	30 g	7 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's

Extras

Type Name Amount Use for Time

Flavor	mrożony	1000 g	Secondary	7 day(s)
	ananas,mango,papaja			